

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P319664

Luminaire Tested: **GAN-SA0D-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69946 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

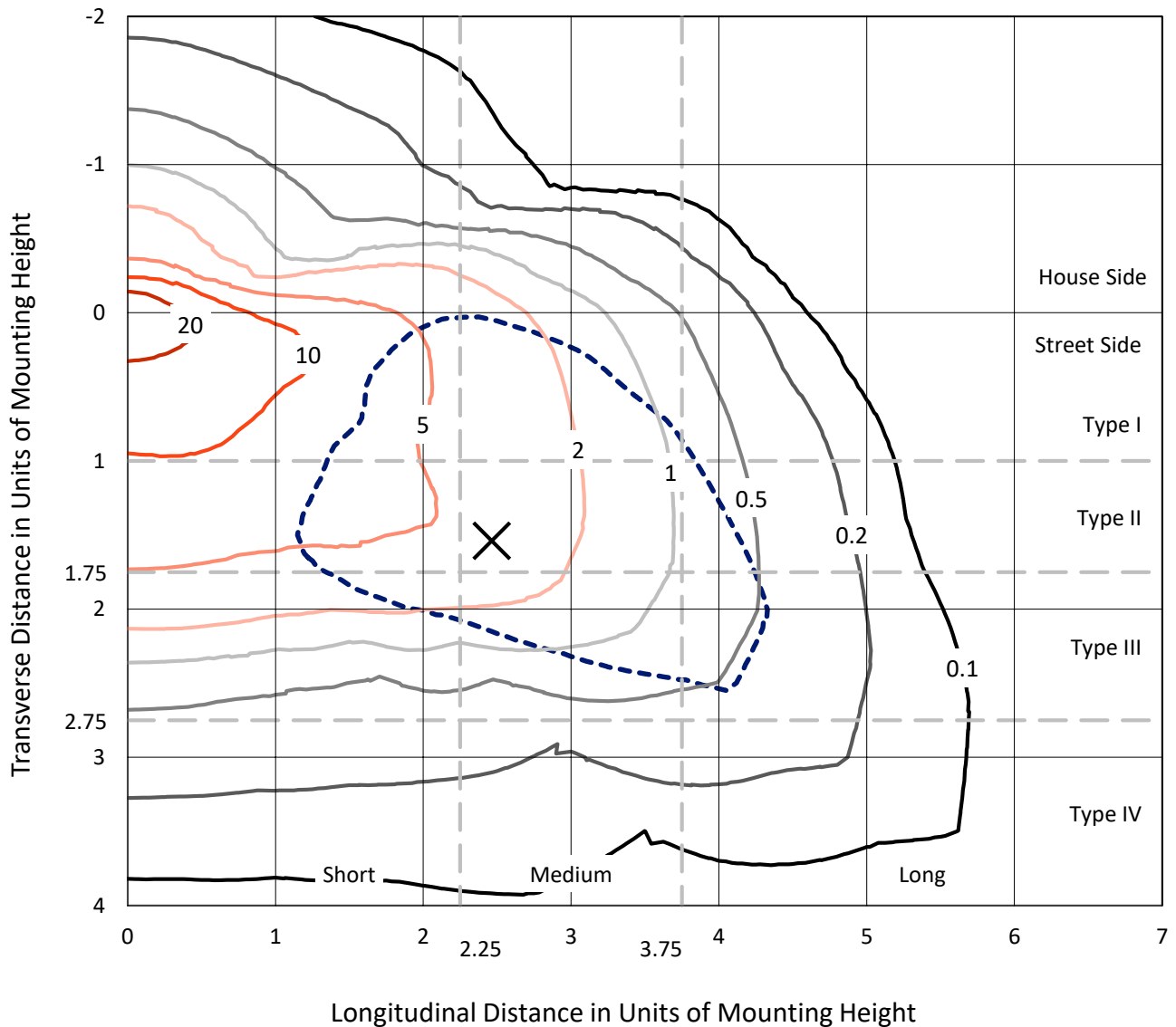
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

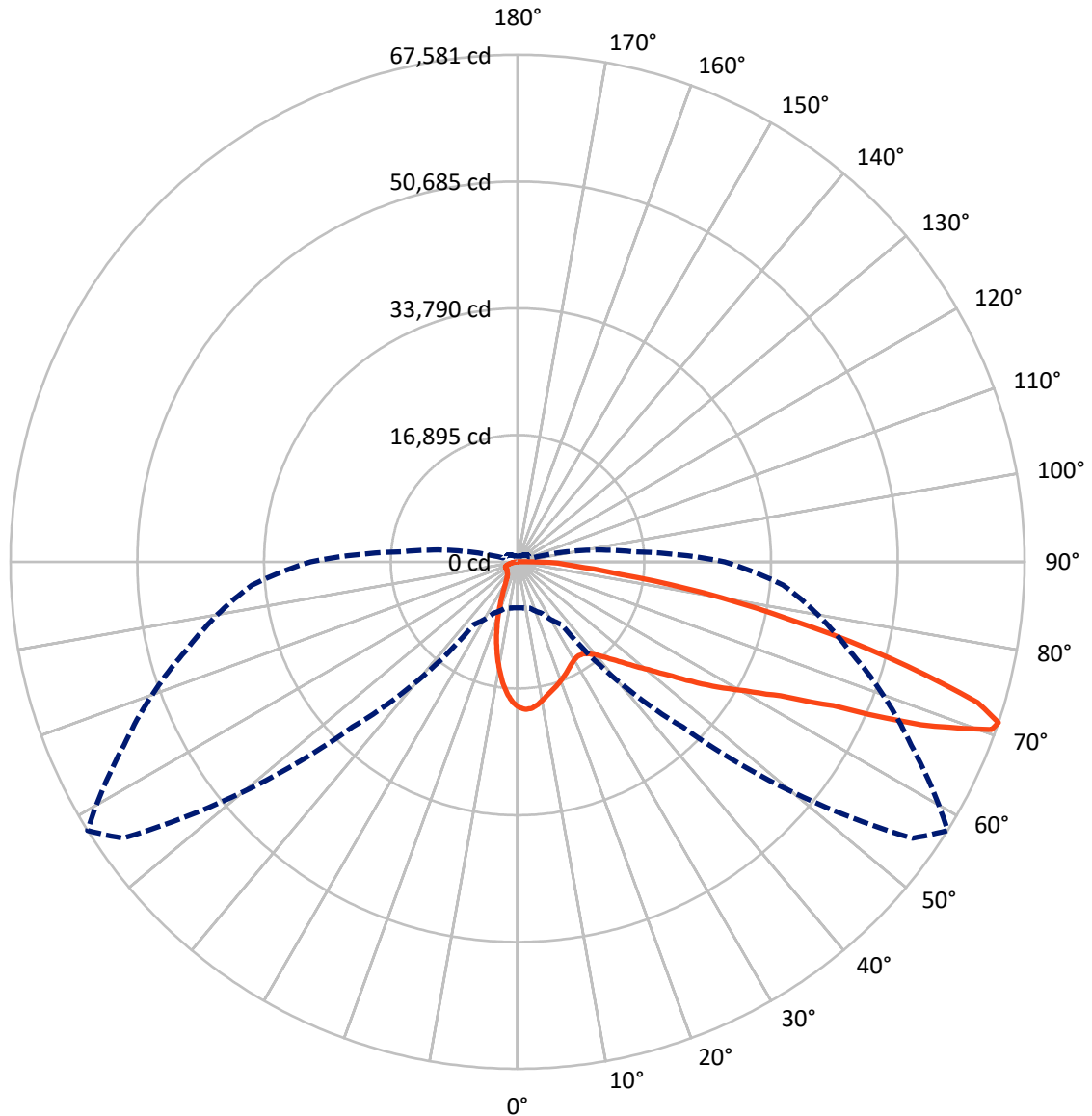
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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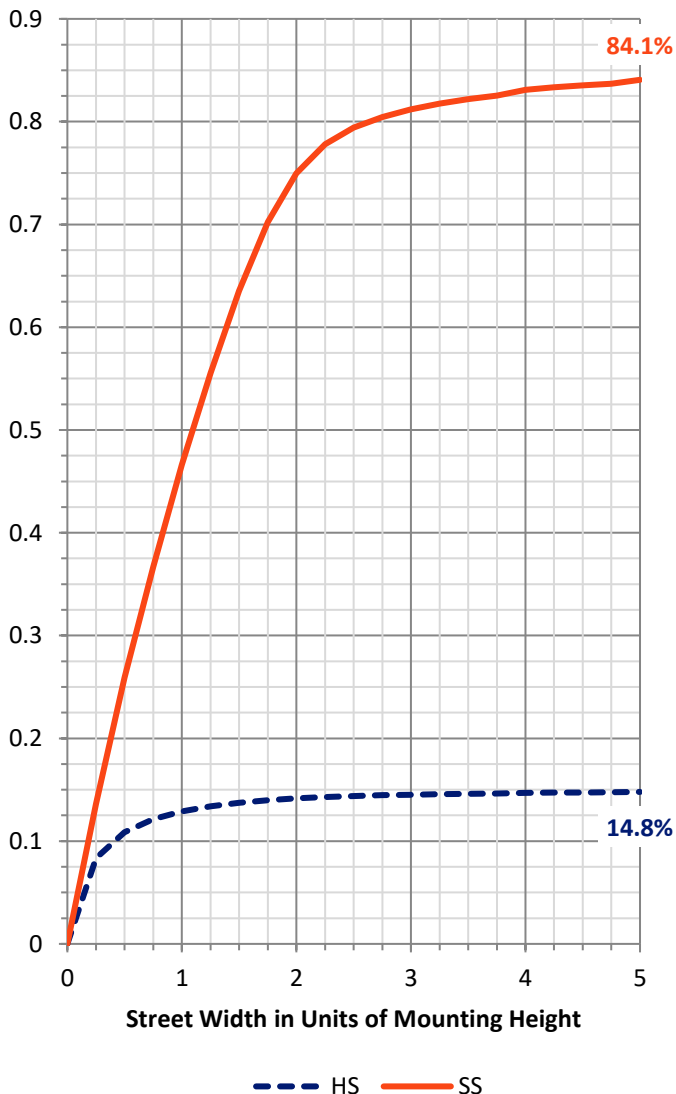
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10457.4	0.0	10457.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	59488.6	0.0	59488.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	69946.0	0.0	69946.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1671.9	2.4
10°-20°	3717.6	5.3
20°-30°	4724.7	6.8
30°-40°	6018.4	8.6
40°-50°	8534.3	12.2
50°-60°	13207.2	18.9
60°-70°	17980.0	25.7
70°-80°	11994.7	17.1
80°-90°	2097.1	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	69946.0	100.0
0°-180°	69946.0	100.0

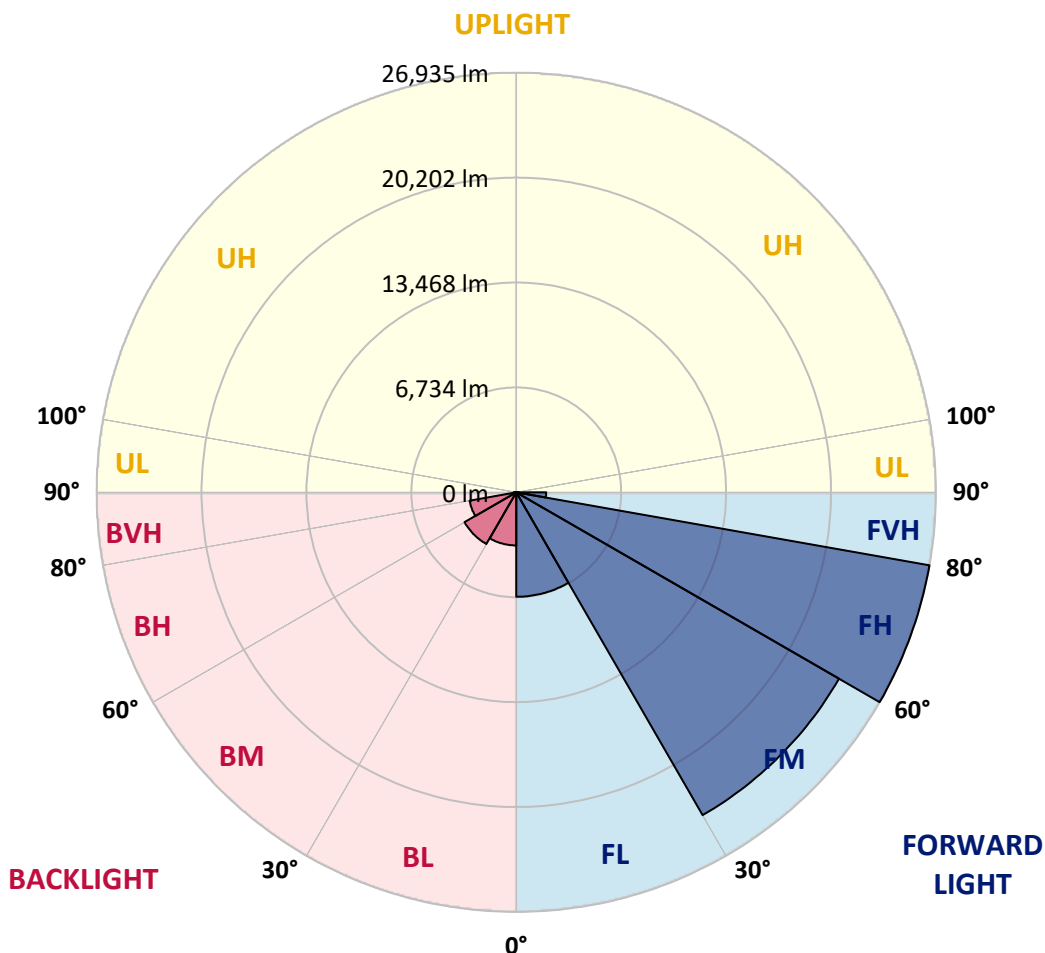


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6705.5	9.6			
FM (30°-60°)	23924.9	34.2			
FH (60°-80°)	26935.3	38.5			G5
FVH (80°-90°)	1922.9	2.7			G5
BL (0°-30°)	3408.8	4.9	B4/5000		
BM (30°-60°)	3835.0	5.5	B3/5000		
BH (60°-80°)	3039.3	4.3	B4/5000		G4/5000
BVH (80°-90°)	174.2	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	19379.7	19379.7	19379.7	19379.7	19379.7	19379.7	19379.7	19379.7	19379.7	19379.7	19379.7
2.5°	19893.8	19867.0	19876.8	19857.3	19811.0	19764.7	19696.5	19708.6	19613.6	19472.3	19296.9
5°	19518.6	19508.9	19581.9	19623.4	19657.5	19630.7	19611.2	19635.5	19496.7	19301.8	18997.2
7.5°	18731.6	18624.4	18717.0	18855.9	18987.4	19087.3	19218.9	19236.0	19148.3	18943.6	18544.0
10°	17613.3	17510.9	17647.4	17864.2	18127.4	18366.1	18631.7	18680.4	18697.5	18512.3	18027.5
12.5°	16453.5	16375.5	16512.0	16816.5	17252.7	17620.6	18044.5	18117.6	18268.7	18144.4	17549.9
15°	15415.6	15386.3	15552.0	15851.7	16353.6	16916.4	17528.0	17662.0	17917.8	17876.4	17177.1
17.5°	14519.0	14511.6	14638.3	14952.6	15508.2	16219.6	17013.9	17240.5	17620.6	17669.3	16870.1
20°	13851.4	13836.7	13924.5	14155.9	14728.5	15535.0	16458.4	16770.3	17318.5	17489.0	16553.4
22.5°	13493.2	13490.8	13493.2	13602.8	14070.6	14821.1	15917.5	16297.6	17023.6	17345.3	16202.6
25°	13432.3	13425.0	13371.4	13359.2	13624.8	14224.1	15381.5	15800.5	16743.5	17245.4	15868.8
27.5°	13590.7	13600.4	13529.7	13415.2	13468.8	13831.9	14916.1	15364.4	16519.3	17225.9	15637.3
30°	13919.6	13914.7	13853.8	13734.4	13629.6	13685.7	14584.7	15033.0	16368.2	17311.2	15478.9
32.5°	14282.6	14309.4	14297.2	14231.4	14075.5	13851.4	14484.8	14923.4	16324.4	17515.8	15410.7
35°	14718.7	14748.0	14835.7	14886.9	14704.1	14343.5	14699.3	15079.3	16451.1	17900.8	15520.3
37.5°	15132.9	15208.5	15454.6	15671.4	15515.5	15113.5	15269.4	15539.8	16843.3	18507.5	15815.2
40°	15610.5	15676.3	16078.3	16538.8	16514.4	16097.8	16187.9	16368.2	17535.3	19377.3	16348.7
42.5°	16080.7	16212.3	16794.6	17447.6	17635.2	17267.3	17411.0	17506.1	18509.9	20529.7	17279.5
45°	16706.9	16848.2	17657.1	18444.1	18882.7	18675.6	18904.6	18941.2	19735.4	22098.8	18631.7
47.5°	17654.7	17815.5	18758.4	19584.4	20254.4	20276.3	20654.0	20639.4	21265.5	23894.5	20334.8
50°	19131.2	19362.7	20135.0	20907.4	21721.2	22174.4	22678.7	22608.0	23100.2	25807.1	22296.2
52.5°	21065.8	21173.0	21745.5	22315.7	23326.8	24342.8	25066.4	25003.1	25181.0	27773.4	24523.1
55°	23071.0	23151.4	23387.7	23699.6	25059.1	26715.9	28246.0	28146.2	27695.4	29815.1	26723.3
57.5°	24874.0	25037.2	25200.5	25329.6	26803.7	29196.3	31498.7	31506.1	30424.3	32017.7	28996.5
60°	25154.2	25297.9	26377.3	27395.7	29788.3	32505.0	34980.5	34907.4	33248.1	34407.9	31530.4
62.5°	22235.3	22559.3	24362.3	27071.7	32663.4	38557.2	39422.2	39332.0	36625.1	37353.6	34481.0
65°	15934.5	16302.5	18478.2	22549.6	31269.7	45225.8	47438.2	46224.8	41230.0	40976.6	37935.9
67.5°	9192.8	9280.5	10223.4	13493.2	23809.2	45574.3	59666.8	57968.6	48381.1	45087.0	39626.8
70°	6797.8	6795.3	7019.5	8303.5	12884.1	37195.2	65482.7	67005.5	55909.8	46439.2	37236.6
71°	6147.2	6154.5	6405.5	7557.9	10204.0	31133.3	64247.4	67580.5	57893.1	45771.6	35506.7
72.5°	5257.9	5282.3	5630.7	6778.3	8583.7	21470.2	58926.1	64130.4	58833.5	44124.6	32799.8
75°	3988.5	4044.5	4527.0	5713.5	7845.4	10888.6	43247.4	51209.8	52264.8	38934.9	24372.1
77.5°	2845.8	2909.2	3454.9	4804.7	7458.0	8206.0	28962.4	37353.6	38462.2	24951.9	10993.4
80°	1798.1	1873.6	2285.4	3822.8	7007.3	7791.8	18200.5	25107.9	20973.2	7984.3	2797.1
82.5°	1055.0	1113.5	1418.0	2497.4	5723.3	7504.3	10708.3	13917.1	8162.2	2412.1	1271.8
85°	611.6	638.4	884.4	1591.0	4156.6	7082.8	7867.4	7779.7	3542.6	1179.3	601.8
87.5°	285.1	316.7	523.8	830.8	2307.3	5133.7	6217.9	5372.4	2202.6	553.1	282.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	19379.7	19379.7	19379.7	19379.7	19379.7	19379.7	19379.7	19379.7	19379.7	19379.7	19379.7
2.5°	19211.6	19170.2	18997.2	18843.7	18682.9	18473.3	18241.9	18212.6	18071.3	18098.1	18049.4
5°	18831.5	18726.7	18310.1	17932.5	17486.6	17087.0	16653.3	16453.5	16166.0	16146.5	16073.4
7.5°	18288.2	18093.3	17447.6	16731.3	16014.9	15332.7	14657.8	14214.4	13761.2	13568.7	13551.7
10°	17676.6	17345.3	16395.0	15335.2	14302.1	13305.6	12340.7	11626.9	10983.6	10679.1	10666.9
12.5°	17096.7	16607.0	15303.5	13861.1	12447.9	11156.6	9833.6	8895.6	8089.1	7818.6	7704.1
15°	16604.6	15915.1	14241.2	12396.8	10681.5	8888.3	7382.5	6395.7	5650.2	5391.9	5343.2
17.5°	16127.0	15240.1	13152.1	10917.8	8844.4	6873.3	5365.1	4631.7	4234.6	4129.8	4127.4
20°	15651.9	14545.8	12014.3	9404.8	7068.2	5141.0	4125.0	3796.0	3662.0	3649.8	3630.3
22.5°	15113.5	13809.9	10817.9	7886.9	5516.2	4042.1	3506.1	3374.5	3357.5	3401.3	3401.3
25°	14609.1	13079.0	9604.6	6400.6	4290.6	3372.1	3130.9	3104.1	3150.4	3228.3	3235.6
27.5°	14138.9	12374.9	8420.5	5080.0	3437.9	2970.1	2870.2	2901.8	2984.7	3074.8	3077.3
30°	13751.5	11709.7	7270.4	4003.1	2904.3	2670.4	2653.3	2716.7	2806.8	2877.5	2894.5
32.5°	13451.8	11142.0	6159.4	3218.6	2555.9	2446.2	2460.8	2514.4	2570.5	2609.5	2636.3
35°	13312.9	10654.7	5133.7	2714.2	2334.1	2273.2	2292.7	2322.0	2346.3	2375.6	2397.5
37.5°	13337.3	10277.0	4217.5	2399.9	2185.5	2153.8	2153.8	2153.8	2153.8	2168.5	2170.9
40°	13563.9	10060.2	3472.0	2200.1	2085.6	2051.5	2024.7	2000.3	1980.9	1990.6	1985.7
42.5°	14143.7	10040.7	2926.2	2073.4	2005.2	1949.2	1895.6	1861.5	1837.1	1846.8	1851.7
45°	15128.1	10284.4	2558.3	1983.3	1929.7	1844.4	1776.2	1739.6	1722.6	1754.3	1759.1
47.5°	16402.3	10815.5	2334.1	1917.5	1859.0	1747.0	1673.9	1639.7	1644.6	1690.9	1703.1
50°	18044.5	11678.0	2226.9	1876.1	1810.3	1664.1	1588.6	1559.3	1574.0	1639.7	1654.4
52.5°	19847.5	12920.6	2239.1	1863.9	1778.6	1603.2	1522.8	1488.7	1513.1	1574.0	1586.1
55°	21928.3	14414.2	2441.3	1881.0	1732.3	1564.2	1469.2	1410.7	1430.2	1486.2	1496.0
57.5°	24240.5	16124.6	2848.2	1876.1	1673.9	1527.7	1413.2	1325.4	1340.1	1374.2	1383.9
60°	26647.7	18190.7	3479.3	1890.7	1647.1	1483.8	1337.6	1228.0	1223.1	1252.3	1257.2
62.5°	29537.4	20580.9	4200.5	1900.5	1664.1	1427.8	1237.7	1130.5	1115.9	1123.2	1128.1
65°	32514.8	22310.8	3930.0	1861.5	1717.7	1381.5	1150.0	1035.5	1008.7	1003.8	1006.3
67.5°	32607.3	20456.6	2755.7	1783.5	1739.6	1357.1	1084.2	955.1	911.2	894.2	891.7
70°	29242.6	16619.2	2146.5	1700.7	1651.9	1318.1	1023.3	889.3	823.5	796.7	794.3
71°	27600.4	15298.6	2034.5	1659.2	1586.1	1279.1	996.5	860.1	791.9	762.6	757.7
72.5°	25025.0	13714.9	1898.0	1593.5	1459.4	1179.3	945.4	818.7	748.0	713.9	706.6
75°	17959.3	8968.7	1630.0	1420.5	1208.5	940.5	828.4	735.8	674.9	633.5	628.6
77.5°	6919.6	3569.4	1232.9	1181.7	925.9	735.8	682.2	635.9	592.1	550.6	548.2
80°	2139.2	1595.9	899.1	889.3	670.0	548.2	531.2	519.0	501.9	458.1	448.3
82.5°	1142.7	916.1	618.9	575.0	438.6	365.5	385.0	389.8	392.3	346.0	341.1
85°	545.8	484.9	348.4	326.5	255.8	204.7	236.3	255.8	258.3	212.0	197.4
87.5°	260.7	253.4	163.2	124.3	95.0	68.2	82.8	102.3	112.1	80.4	70.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)