

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: P319423

Luminaire Tested: **GAN-SA9D-750-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-750-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67951 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

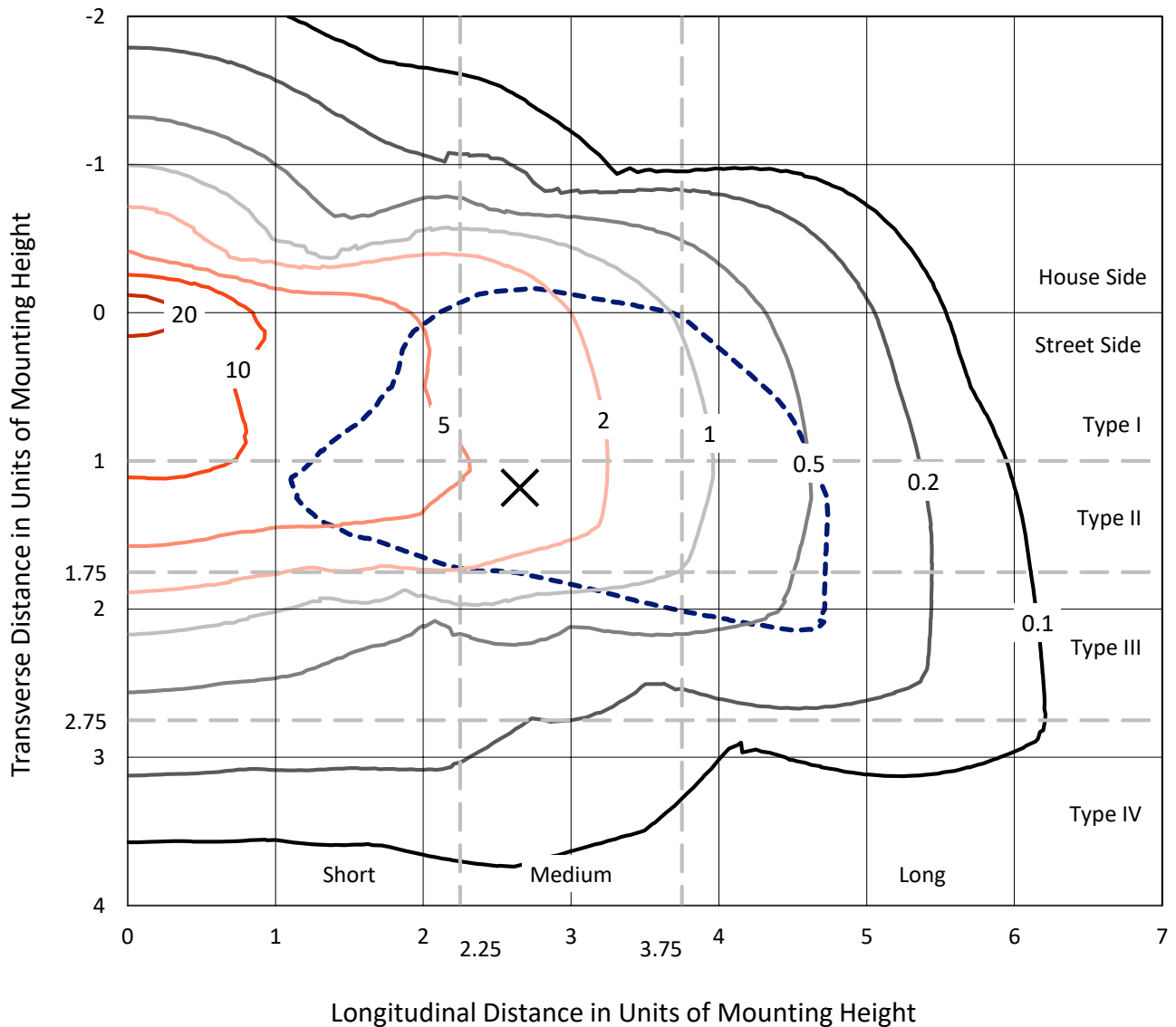
Input Watts (W): 575
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

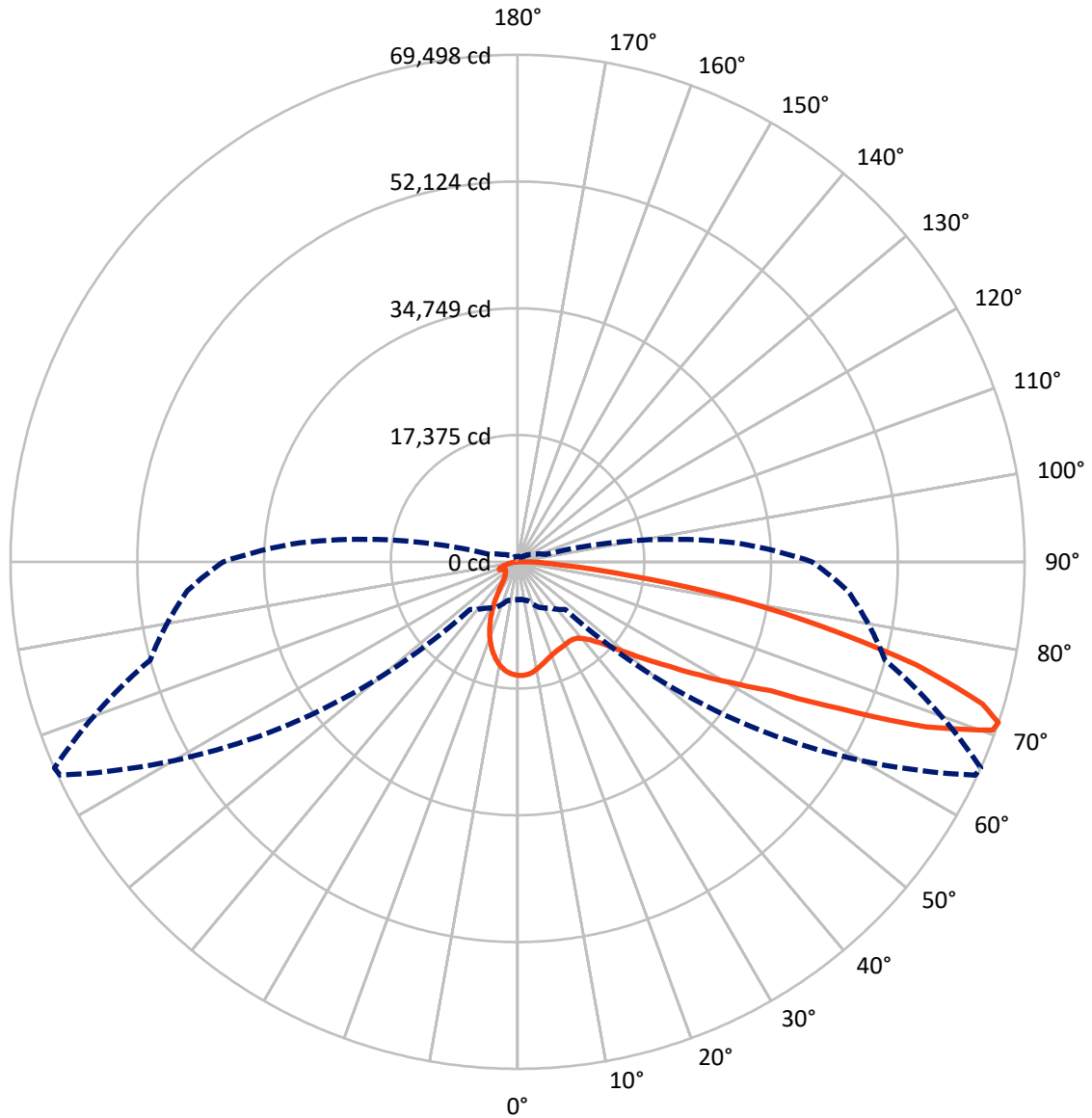
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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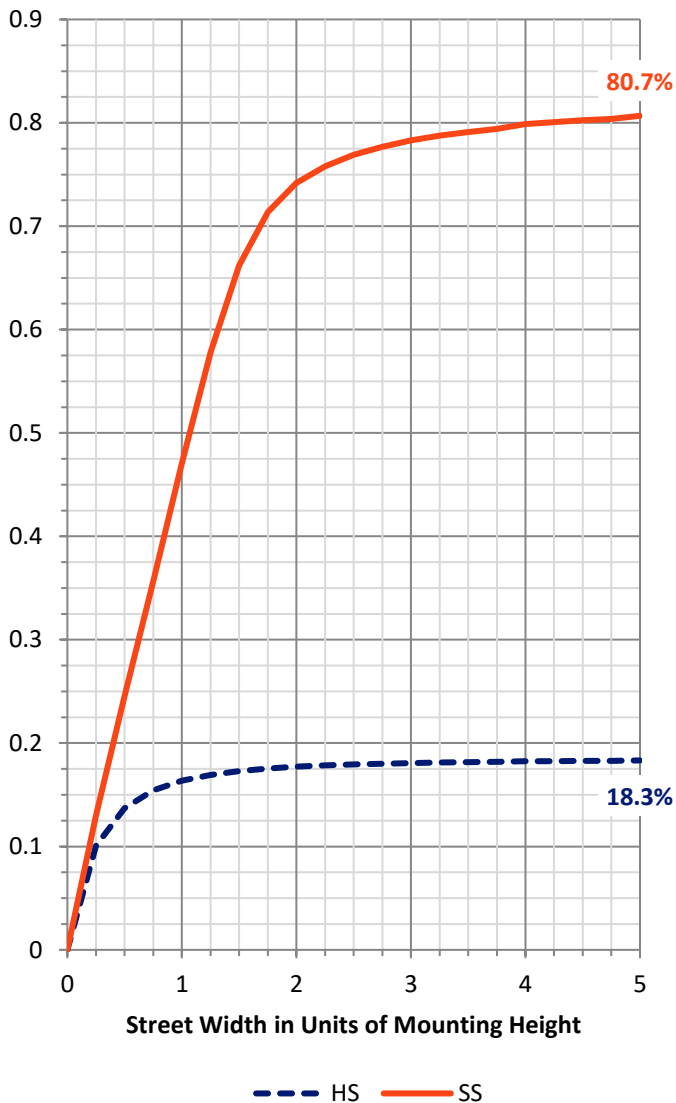
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12593.2	0.0	12593.2
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	55357.8	0.0	55357.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	67951.0	0.0	67951.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1370.2	2.0
10°-20°	3286.3	4.8
20°-30°	4414.4	6.5
30°-40°	5807.0	8.5
40°-50°	8447.7	12.4
50°-60°	13196.2	19.4
60°-70°	16530.4	24.3
70°-80°	12609.0	18.6
80°-90°	2289.7	3.4
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°	67951.0	100.0
0°-180°	67951.0	100.0

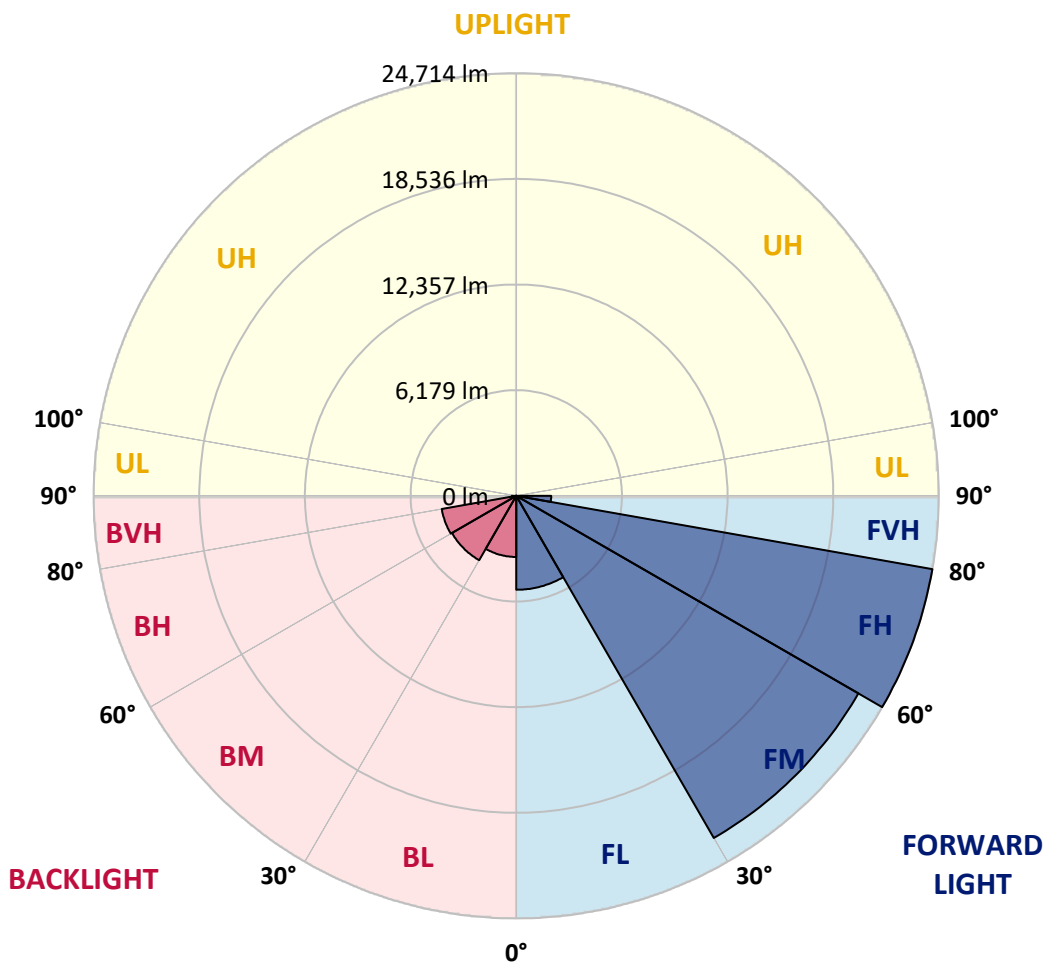


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5494.8	8.1			
FM (30°-60°)	23106.7	34.0			
FH (60°-80°)	24714.5	36.4			G5
FVH (80°-90°)	2041.8	3.0			G5
BL (0°-30°)	3576.1	5.3	B4/5000		
BM (30°-60°)	4344.2	6.4	B3/5000		
BH (60°-80°)	4425.0	6.5	B4/5000		G4/5000
BVH (80°-90°)	247.9	0.4			G3/500
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°	65°	66°	75°	85°
0°	15566.3	15566.3	15566.3	15566.3	15566.3	15566.3	15566.3	15566.3	15566.3	15566.3	15566.3
2.5°	15277.7	15254.2	15324.6	15397.3	15425.5	15472.4	15542.8	15582.7	15580.3	15587.4	15563.9
5°	14264.2	14233.7	14374.4	14489.4	14709.9	14958.6	15261.3	15477.1	15481.8	15603.8	15636.6
7.5°	13304.6	13283.5	13445.4	13630.7	13886.5	14266.5	14756.9	15221.4	15249.5	15580.3	15695.3
10°	12535.1	12530.4	12687.6	12889.4	13187.3	13612.0	14175.0	14855.4	14897.6	15467.7	15704.7
12.5°	11934.5	11943.9	12080.0	12309.9	12624.3	13067.7	13677.7	14444.8	14512.9	15289.4	15650.7
15°	11491.1	11528.7	11638.9	11871.2	12180.9	12631.3	13257.7	14064.8	14168.0	15090.0	15620.2
17.5°	11237.7	11280.0	11357.4	11549.8	11840.7	12274.7	12868.3	13752.7	13846.6	14937.5	15622.6
20°	11162.7	11197.9	11242.4	11359.7	11606.1	12000.2	12560.9	13471.2	13572.1	14815.5	15646.0
22.5°	11310.5	11336.3	11341.0	11331.6	11481.7	11803.1	12338.0	13264.8	13372.7	14735.7	15662.4
25°	11627.2	11662.4	11636.6	11549.8	11500.5	11697.6	12223.1	13128.7	13236.6	14677.1	15629.6
27.5°	12103.4	12108.1	12087.0	11974.4	11742.1	11709.3	12187.9	13048.9	13152.1	14609.1	15561.6
30°	12751.0	12781.5	12743.9	12591.4	12211.4	11897.0	12230.1	12971.5	13065.3	14522.3	15451.3
32.5°	13508.7	13583.8	13581.5	13421.9	12877.6	12316.9	12403.7	12924.6	12997.3	14430.8	15317.6
35°	14294.7	14397.9	14590.3	14522.3	13848.9	12980.9	12736.9	12999.6	13048.9	14419.0	15223.7
37.5°	15111.1	15214.3	15610.8	15793.8	15005.5	13931.0	13262.4	13264.8	13288.2	14562.1	15216.7
40°	15965.1	16075.4	16671.3	17147.5	16504.7	15134.6	14109.3	13818.4	13792.6	14914.0	15355.1
42.5°	17161.6	17260.1	17975.7	18583.3	18168.1	16676.0	15280.0	14672.4	14618.4	15603.8	15798.5
45°	18674.8	18759.3	19519.4	20169.3	19955.8	18435.5	16751.0	15847.8	15838.4	16753.4	16697.1
47.5°	20474.3	20540.0	21222.7	21851.4	21928.8	20460.2	18599.7	17661.3	17508.8	18329.9	18088.3
50°	22348.8	22421.5	22886.0	23561.7	24136.5	23169.9	20978.7	19883.1	19678.9	20410.9	20059.0
52.5°	23589.9	23686.1	24089.6	24945.9	26618.7	26140.1	23791.6	22576.4	22266.7	22933.0	22663.2
55°	23036.2	23252.0	23869.0	25241.5	28603.4	30677.4	27261.5	25717.8	25368.2	25921.9	25762.3
57.5°	20518.8	20814.4	21656.7	23775.2	28882.6	34675.1	32507.3	29417.5	29171.2	29011.7	29084.4
60°	15918.2	16202.0	17246.1	20007.4	26937.7	37593.6	40401.9	33978.3	33621.7	32113.2	32178.9
62.5°	11265.9	11122.8	11838.3	13858.3	21889.0	37936.2	49385.0	40078.1	38905.1	35388.3	35099.7
65°	8591.4	8558.5	8879.9	9522.7	13257.7	33837.6	54736.5	50330.5	48498.2	39240.6	38560.2
67.5°	7059.4	7000.7	7317.4	8253.5	8537.4	21830.3	54853.8	62225.2	60425.7	44036.0	42562.6
70°	5804.2	5738.5	6034.1	7242.4	7889.9	11071.2	46166.2	69190.7	69094.5	50107.6	45584.4
71°	5203.6	5156.7	5510.9	6852.9	7751.5	9227.1	39859.9	69209.4	69498.0	52162.8	45406.1
72.5°	4237.0	4253.4	4628.8	6099.8	7648.2	8147.9	29295.5	65983.6	66593.6	54121.8	43784.9
75°	2815.3	2829.4	3322.1	4692.2	7416.0	7972.0	16101.2	55367.6	56489.0	52948.7	39953.8
77.5°	1890.9	1886.3	2221.7	3218.8	6461.1	7972.0	9440.6	41410.7	42642.4	42131.0	30801.7
80°	1302.1	1292.7	1529.6	2221.7	4891.6	8068.2	7298.7	29021.0	29394.1	22752.3	12518.7
82.5°	797.7	804.7	999.4	1569.5	3329.1	7261.1	6890.4	15824.3	15418.5	6381.3	3127.3
85°	457.5	455.1	638.1	1062.8	2137.3	6128.0	6719.2	6810.7	6247.6	1921.4	1130.8
87.5°	164.2	176.0	342.5	588.9	1224.7	4267.5	5701.0	3542.6	3193.0	868.1	511.4
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°	15566.3	15566.3	15566.3	15566.3	15566.3	15566.3	15566.3	15566.3	15566.3	15566.3	15566.3
2.5°	15547.5	15561.6	15545.1	15451.3	15371.5	15242.5	15169.8	15068.9	15038.4	15024.3	15061.9
5°	15606.1	15610.8	15472.4	15226.1	14949.2	14623.1	14388.5	14100.0	13963.9	13905.2	13942.8
7.5°	15660.1	15639.0	15336.3	14864.8	14353.3	13785.6	13281.2	12819.0	12549.2	12438.9	12448.3
10°	15667.1	15578.0	15092.3	14362.7	13569.7	12736.9	11962.7	11249.5	10799.0	10505.8	10594.9
12.5°	15594.4	15444.3	14733.4	13712.9	12612.5	11477.0	10430.7	9360.9	8718.0	8420.1	8429.5
15°	15538.1	15266.0	14292.3	12948.0	11470.0	9966.2	8537.4	7279.9	6594.8	6289.8	6146.7
17.5°	15491.2	15073.6	13780.9	12087.0	10121.0	8213.6	6496.3	5374.9	4999.5	4910.4	4872.8
20°	15425.5	14869.5	13210.8	11089.9	8584.3	6252.3	4743.8	4190.1	4192.4	4295.7	4309.8
22.5°	15334.0	14637.2	12603.2	9970.9	6935.0	4553.7	3718.5	3559.0	3720.9	3918.0	3953.1
25°	15197.9	14362.7	11927.5	8734.5	5288.1	3500.4	3176.6	3169.6	3366.6	3573.1	3603.6
27.5°	15005.5	14003.8	11176.7	7406.6	3896.8	2974.8	2845.8	2895.1	3040.5	3190.7	3202.4
30°	14747.5	13586.2	10348.6	6006.0	3054.6	2648.7	2634.7	2679.2	2768.4	2874.0	2883.3
32.5°	14463.6	13161.5	9464.1	4649.9	2615.9	2472.8	2486.8	2508.0	2550.2	2592.4	2601.8
35°	14205.5	12727.5	8558.5	3533.2	2407.1	2357.8	2348.4	2343.7	2348.4	2334.4	2336.7
37.5°	14039.0	12368.5	7615.4	2813.0	2287.4	2256.9	2228.8	2193.6	2153.7	2130.2	2134.9
40°	13978.0	12101.1	6660.5	2430.5	2188.9	2167.8	2113.8	2038.7	1991.8	1977.7	1977.7
42.5°	14142.2	11962.7	5738.5	2238.2	2106.8	2071.6	1982.4	1895.6	1860.4	1858.1	1855.8
45°	14644.2	12019.0	4861.1	2132.6	2031.7	1963.7	1846.4	1773.6	1750.2	1754.9	1752.5
47.5°	15545.1	12373.2	4110.3	2062.2	1956.6	1867.5	1736.1	1677.4	1649.3	1649.3	1651.6
50°	17077.1	13201.4	3512.1	2003.6	1893.3	1778.3	1656.3	1583.6	1546.1	1543.7	1543.7
52.5°	19308.3	14684.1	3139.1	1954.3	1822.9	1698.6	1576.6	1485.1	1440.5	1431.1	1426.4
55°	22104.8	16809.7	3035.8	1921.4	1729.1	1611.8	1480.4	1388.9	1339.6	1318.5	1316.2
57.5°	25232.1	19395.1	3239.9	1881.6	1632.9	1508.5	1374.8	1288.0	1236.4	1210.6	1208.2
60°	28397.0	22217.4	4072.8	1825.3	1553.1	1395.9	1266.9	1187.1	1135.5	1107.4	1102.7
62.5°	31566.5	25192.2	5773.7	1820.6	1496.8	1288.0	1156.6	1088.6	1039.3	1008.8	1001.8
65°	35142.0	28448.6	7706.9	1944.9	1478.0	1189.5	1044.0	990.0	947.8	919.7	917.3
67.5°	39247.6	32124.9	7521.5	2200.6	1541.4	1100.3	938.4	896.2	865.7	842.2	839.9
70°	41173.8	31550.1	4675.7	2381.3	1630.5	1013.5	837.6	807.1	783.6	767.2	760.1
71°	40366.7	29957.1	3920.3	2360.2	1621.1	976.0	797.7	774.2	750.7	736.7	729.6
72.5°	38166.1	27320.1	3270.4	2195.9	1515.6	907.9	746.1	722.6	701.5	685.1	680.4
75°	34248.1	24399.3	2618.2	1754.9	1208.2	767.2	654.6	628.8	612.3	602.9	593.6
77.5°	25175.8	17412.6	2024.7	1386.5	889.2	626.4	558.4	539.6	523.2	509.1	502.1
80°	9644.7	6745.0	1363.1	1034.6	652.2	495.0	450.4	441.1	424.6	415.3	415.3
82.5°	2597.1	2015.3	727.3	626.4	436.4	361.3	344.9	340.2	326.1	307.3	309.7
85°	1051.0	889.2	408.2	344.9	267.5	213.5	232.3	234.6	218.2	194.7	197.1
87.5°	462.2	377.7	227.6	152.5	117.3	82.1	105.6	105.6	96.2	79.8	72.7
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)