

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: P319413

Luminaire Tested: **GAN-SA9C-750-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319413
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-SA9C-750-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1050mA 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: 61944 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

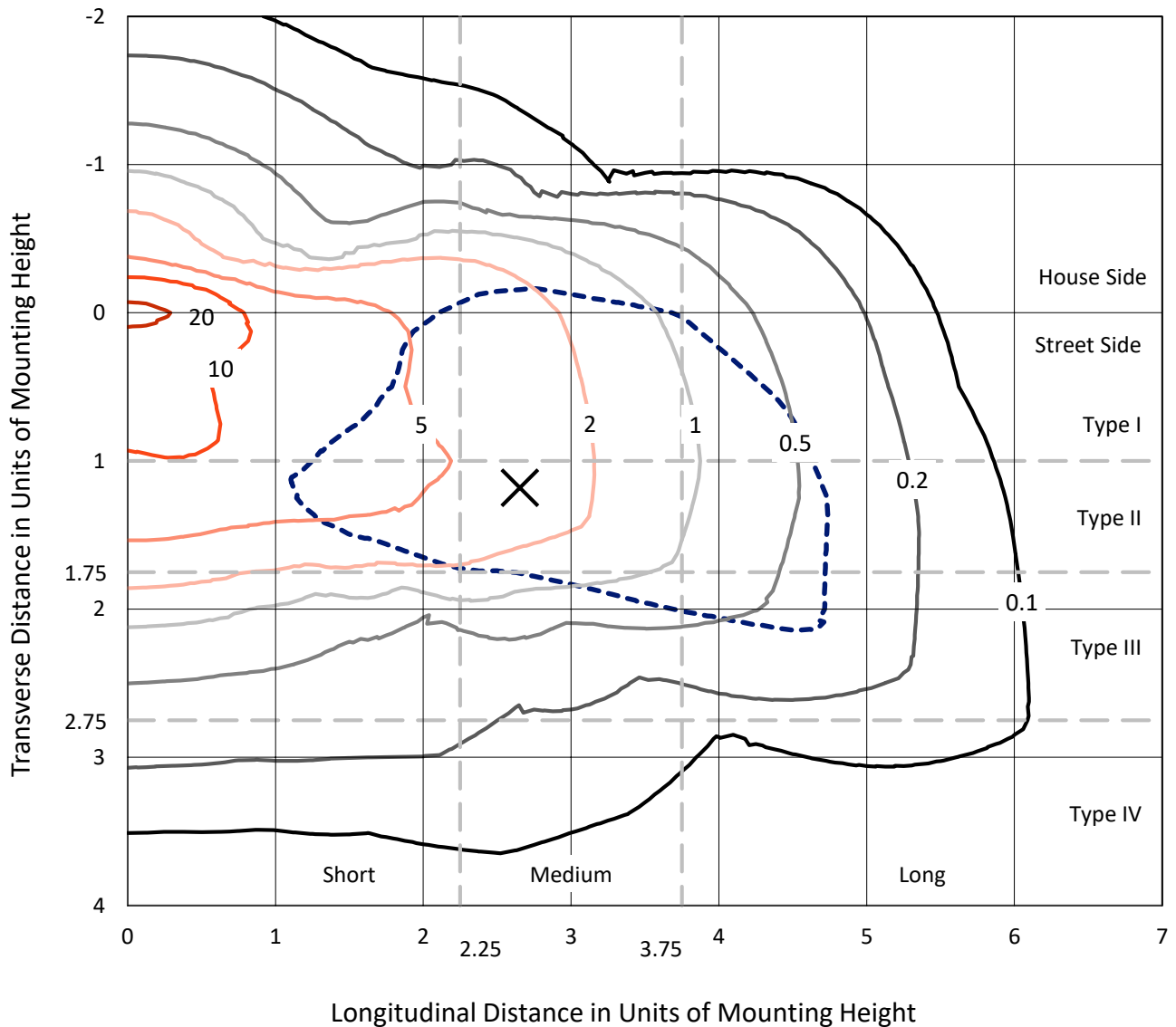
Input Watts (W): 501
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

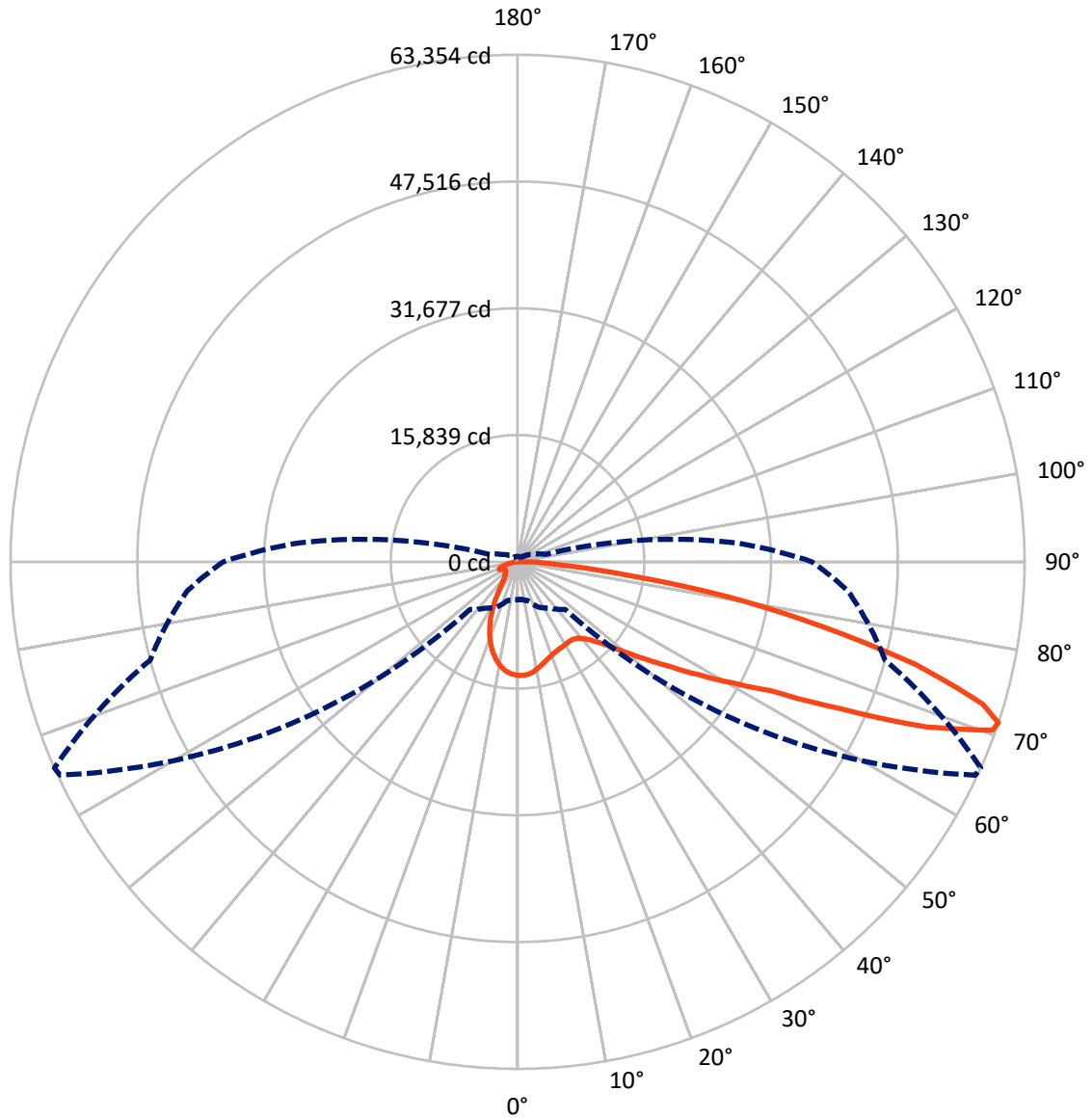
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.7 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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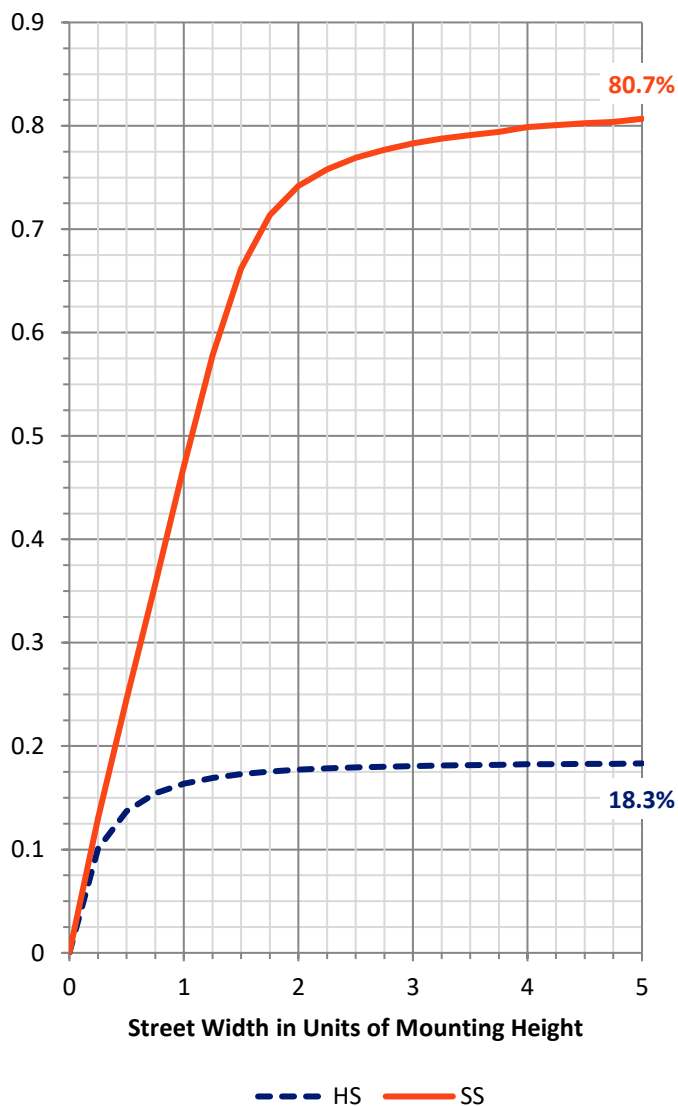
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11479.9	0.0	11479.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	50464.1	0.0	50464.1
	% Fixture	81.5	0.0	81.5
Total	Lumens	61944.0	0.0	61944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1249.1	2.0
10°-20°	2995.8	4.8
20°-30°	4024.1	6.5
30°-40°	5293.7	8.5
40°-50°	7700.9	12.4
50°-60°	12029.7	19.4
60°-70°	15069.1	24.3
70°-80°	11494.4	18.6
80°-90°	2087.2	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°	61944.0	100.0
0°-180°	61944.0	100.0

Coefficient of Utilization

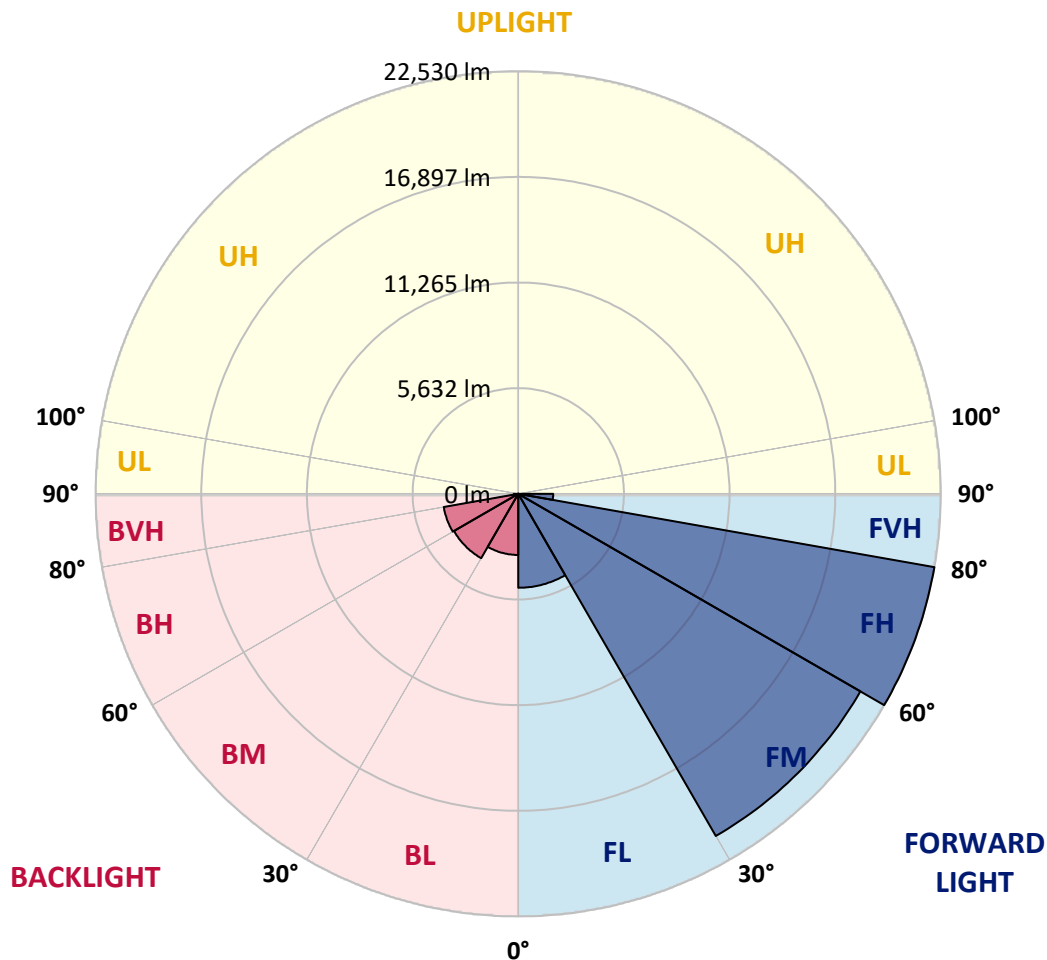


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5009.0	8.1			
FM (30°-60°)	21064.1	34.0			
FH (60°-80°)	22529.7	36.4			G5
FVH (80°-90°)	1861.3	3.0			G5
BL (0°-30°)	3260.0	5.3	B4/5000		
BM (30°-60°)	3960.2	6.4	B3/5000		
BH (60°-80°)	4033.8	6.5	B4/5000		G4/5000
BVH (80°-90°)	225.9	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°	14190.2	14190.2	14190.2	14190.2	14190.2	14190.2	14190.2	14190.2	14190.2	14190.2	14190.2
2.5°	13927.1	13905.7	13969.9	14036.2	14061.9	14104.6	14168.8	14205.1	14203.0	14209.4	14188.0
5°	13003.2	12975.4	13103.7	13208.5	13409.6	13636.3	13912.1	14108.9	14113.2	14224.4	14254.3
7.5°	12128.5	12109.2	12256.8	12425.8	12658.9	13005.3	13452.3	13875.8	13901.4	14203.0	14307.8
10°	11427.0	11422.7	11566.0	11749.9	12021.5	12408.6	12921.9	13542.1	13580.6	14100.3	14316.4
12.5°	10879.5	10888.0	11012.1	11221.7	11508.3	11912.5	12468.5	13167.9	13229.9	13937.8	14267.2
15°	10475.3	10509.5	10610.0	10821.7	11104.0	11514.7	12085.7	12821.4	12915.5	13756.0	14239.4
17.5°	10244.3	10282.8	10353.4	10528.7	10793.9	11189.6	11730.7	12537.0	12622.5	13617.0	14241.5
20°	10175.9	10207.9	10248.6	10355.5	10580.1	10939.4	11450.5	12280.3	12372.3	13505.8	14262.9
22.5°	10310.6	10334.1	10338.4	10329.8	10466.7	10759.7	11247.3	12092.1	12190.5	13433.1	14277.9
25°	10599.3	10631.4	10607.9	10528.7	10483.8	10663.5	11142.5	11968.1	12066.5	13379.6	14247.9
27.5°	11033.5	11037.8	11018.5	10915.8	10704.1	10674.2	11110.5	11895.4	11989.5	13317.6	14185.9
30°	11623.7	11651.6	11617.3	11478.3	11131.9	10845.3	11149.0	11824.8	11910.3	13238.5	14085.4
32.5°	12314.5	12383.0	12380.8	12235.4	11739.2	11228.1	11307.2	11782.0	11848.3	13155.0	13963.5
35°	13031.0	13125.1	13300.5	13238.5	12624.7	11833.3	11610.9	11850.5	11895.4	13144.4	13877.9
37.5°	13775.3	13869.4	14230.8	14397.6	13679.0	12699.5	12090.0	12092.1	12113.5	13274.8	13871.5
40°	14553.7	14654.3	15197.5	15631.6	15045.6	13796.7	12862.0	12596.9	12573.3	13595.6	13997.7
42.5°	15644.5	15734.3	16386.6	16940.5	16562.0	15201.8	13929.3	13375.3	13326.1	14224.4	14401.9
45°	17023.9	17100.9	17793.9	18386.3	18191.6	16805.8	15270.2	14446.8	14438.3	15272.3	15221.0
47.5°	18664.3	18724.2	19346.5	19919.7	19990.3	18651.5	16955.5	16100.0	15961.0	16709.5	16489.3
50°	20373.1	20439.4	20862.9	21478.8	22002.8	21121.6	19124.1	18125.4	17939.3	18606.6	18285.8
52.5°	21504.5	21592.2	21960.0	22740.6	24265.5	23829.2	21688.4	20580.6	20298.3	20905.6	20659.7
55°	20999.7	21196.5	21759.0	23010.1	26074.8	27965.4	24851.5	23444.3	23125.6	23630.3	23484.9
57.5°	18704.9	18974.4	19742.2	21673.4	26329.3	31609.8	29633.6	26817.0	26592.4	26447.0	26513.3
60°	14511.0	14769.8	15721.5	18238.7	24556.4	34270.3	36830.3	30974.6	30649.5	29274.3	29334.2
62.5°	10270.0	10139.5	10791.8	12633.2	19953.9	34582.5	45019.3	36535.1	35465.8	32259.9	31996.9
65°	7831.9	7801.9	8094.9	8680.9	12085.7	30846.2	49897.6	45881.2	44210.9	35771.6	35151.4
67.5°	6435.3	6381.8	6670.6	7523.9	7782.7	19900.5	50004.6	56724.3	55084.0	40143.1	38800.0
70°	5291.1	5231.2	5500.7	6602.1	7192.4	10092.5	42085.0	63074.1	62986.4	45678.0	41554.6
71°	4743.6	4700.8	5023.8	6247.1	7066.2	8411.4	36336.2	63091.2	63354.2	47551.5	41392.1
72.5°	3862.5	3877.4	4219.6	5560.6	6972.1	7427.7	26705.8	60150.5	60706.6	49337.3	39914.3
75°	2566.4	2579.3	3028.4	4277.4	6760.4	7267.2	14677.8	50473.0	51495.2	48268.0	36421.8
77.5°	1723.8	1719.5	2025.3	2934.3	5889.9	7267.2	8606.1	37749.9	38872.7	38406.5	28078.8
80°	1187.0	1178.4	1394.4	2025.3	4459.2	7354.9	6653.4	26455.5	26795.6	20741.0	11412.0
82.5°	727.2	733.6	911.1	1430.8	3034.8	6619.2	6281.3	14425.4	14055.4	5817.2	2850.9
85°	417.0	414.9	581.7	968.8	1948.3	5586.2	6125.2	6208.6	5695.3	1751.6	1030.8
87.5°	149.7	160.4	312.2	536.8	1116.4	3890.3	5197.0	3229.4	2910.7	791.3	466.2
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°	14190.2	14190.2	14190.2	14190.2	14190.2	14190.2	14190.2	14190.2	14190.2	14190.2	14190.2
2.5°	14173.1	14185.9	14170.9	14085.4	14012.7	13895.0	13828.7	13736.8	13709.0	13696.1	13730.4
5°	14226.5	14230.8	14104.6	13880.1	13627.7	13330.4	13116.6	12853.5	12729.4	12676.0	12710.2
7.5°	14275.7	14256.5	13980.6	13550.7	13084.5	12566.9	12107.1	11685.8	11439.8	11339.3	11347.9
10°	14282.1	14200.9	13758.2	13093.0	12370.2	11610.9	10905.2	10255.0	9844.4	9577.0	9658.3
12.5°	14215.8	14079.0	13430.9	12500.6	11497.6	10462.4	9508.6	8533.4	7947.4	7675.7	7684.3
15°	14164.5	13916.4	13028.9	11803.4	10456.0	9085.1	7782.7	6636.3	6011.8	5733.8	5603.4
17.5°	14121.7	13741.0	12562.6	11018.5	9226.3	7487.5	5922.0	4899.7	4557.5	4476.3	4442.0
20°	14061.9	13555.0	12042.9	10109.6	7825.4	5699.6	4324.4	3819.7	3821.8	3915.9	3928.8
22.5°	13978.4	13343.3	11489.0	9089.4	6322.0	4151.2	3389.8	3244.4	3392.0	3571.6	3603.7
25°	13854.4	13093.0	10873.1	7962.3	4820.6	3190.9	2895.8	2889.4	3069.0	3257.2	3285.0
27.5°	13679.0	12765.8	10188.7	6751.8	3552.4	2711.9	2594.2	2639.1	2771.7	2908.6	2919.3
30°	13443.8	12385.1	9433.7	5475.0	2784.6	2414.6	2401.7	2442.4	2523.6	2619.9	2628.4
32.5°	13185.0	11998.0	8627.5	4238.9	2384.6	2254.2	2267.0	2286.3	2324.7	2363.2	2371.8
35°	12949.7	11602.4	7801.9	3220.9	2194.3	2149.4	2140.8	2136.5	2140.8	2128.0	2130.1
37.5°	12797.9	11275.1	6942.2	2564.3	2085.2	2057.4	2031.8	1999.7	1963.3	1941.9	1946.2
40°	12742.3	11031.3	6071.7	2215.7	1995.4	1976.1	1927.0	1858.5	1815.7	1802.9	1802.9
42.5°	12892.0	10905.2	5231.2	2040.3	1920.5	1888.5	1807.2	1728.1	1696.0	1693.8	1691.7
45°	13349.7	10956.5	4431.4	1944.1	1852.1	1790.1	1683.1	1616.8	1595.5	1599.7	1597.6
47.5°	14170.9	11279.4	3747.0	1879.9	1783.7	1702.4	1582.6	1529.2	1503.5	1503.5	1505.6
50°	15567.5	12034.4	3201.6	1826.4	1725.9	1621.1	1509.9	1443.6	1409.4	1407.3	1407.3
52.5°	17601.4	13386.0	2861.6	1781.5	1661.8	1548.4	1437.2	1353.8	1313.2	1304.6	1300.3
55°	20150.7	15323.7	2767.5	1751.6	1576.2	1469.3	1349.5	1266.1	1221.2	1201.9	1199.8
57.5°	23001.6	17680.5	2953.5	1715.2	1488.5	1375.2	1253.3	1174.1	1127.1	1103.6	1101.4
60°	25886.6	20253.3	3712.8	1663.9	1415.8	1272.5	1154.9	1082.2	1035.1	1009.5	1005.2
62.5°	28776.0	22965.2	5263.3	1659.6	1364.5	1174.1	1054.4	992.3	947.4	919.6	913.2
65°	32035.4	25933.7	7025.6	1773.0	1347.4	1084.3	951.7	902.5	864.0	838.4	836.2
67.5°	35778.1	29285.0	6856.6	2006.1	1405.1	1003.0	855.5	817.0	789.2	767.8	765.6
70°	37533.9	28761.0	4262.4	2170.8	1486.4	923.9	763.5	735.7	714.3	699.3	692.9
71°	36798.2	27308.9	3573.7	2151.5	1477.8	889.7	727.2	705.8	684.4	671.5	665.1
72.5°	34792.1	24905.0	2981.3	2001.8	1381.6	827.7	680.1	658.7	639.5	624.5	620.2
75°	31220.5	22242.3	2386.8	1599.7	1101.4	699.3	596.7	573.2	558.2	549.6	541.1
77.5°	22950.2	15873.3	1845.7	1264.0	810.6	571.0	509.0	491.9	476.9	464.1	457.7
80°	8792.1	6148.7	1242.6	943.2	594.6	451.3	410.6	402.1	387.1	378.5	378.5
82.5°	2367.5	1837.1	663.0	571.0	397.8	329.4	314.4	310.1	297.3	280.2	282.3
85°	958.1	810.6	372.1	314.4	243.8	194.6	211.7	213.9	198.9	177.5	179.6
87.5°	421.3	344.3	207.5	139.0	106.9	74.9	96.2	96.2	87.7	72.7	66.3
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)