

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: P319701

Luminaire Tested: **GAN-SA7D-740-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319701
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-SA7D-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 54885 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

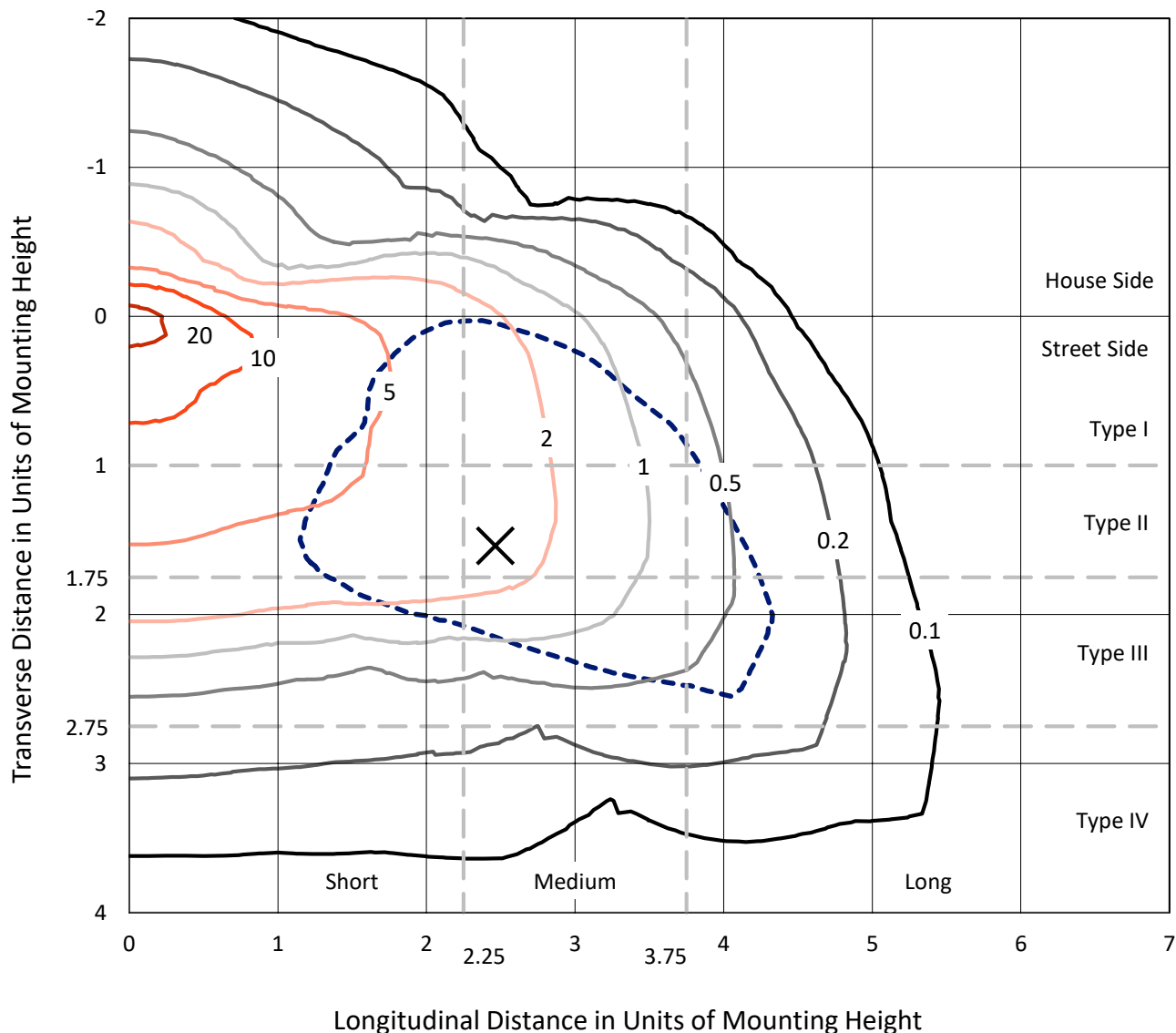
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

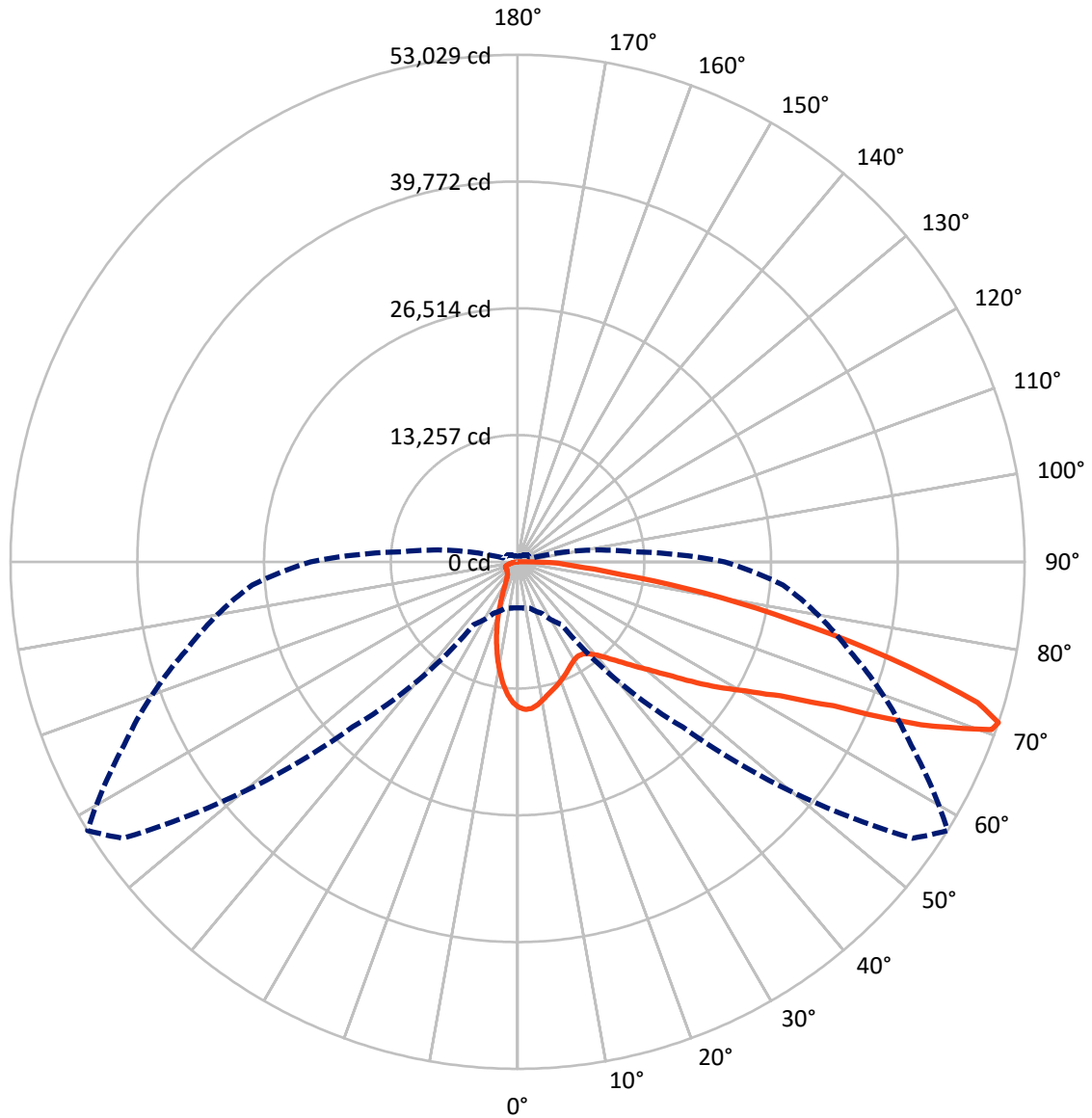
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.3 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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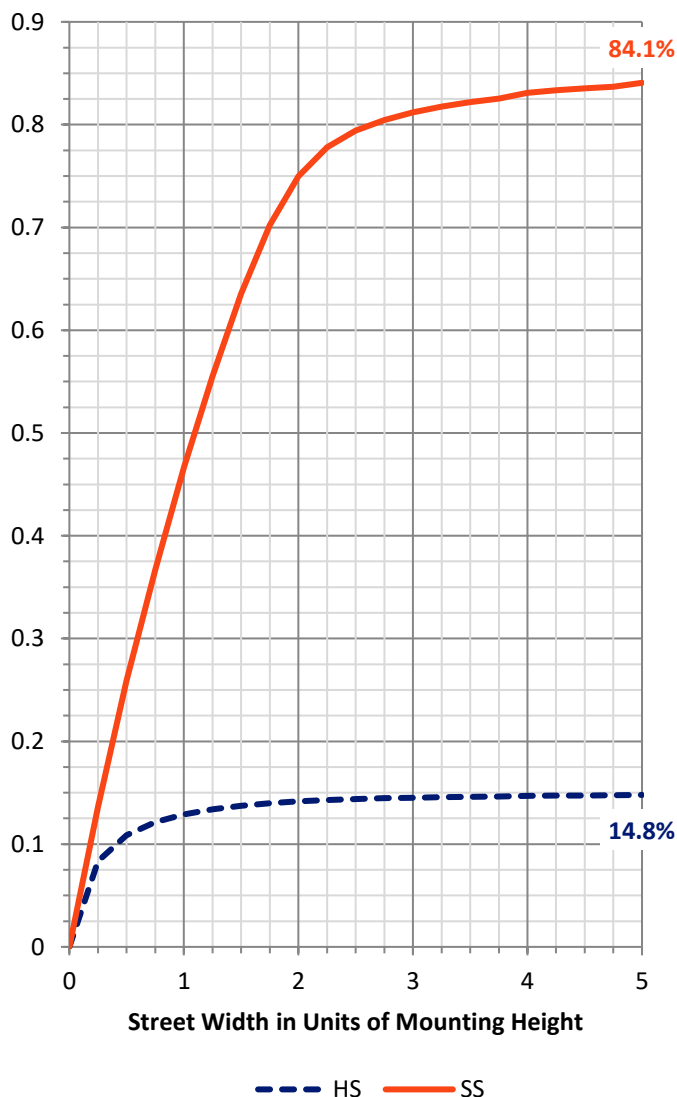
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8205.7	0.0	8205.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	46679.3	0.0	46679.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	54885.0	0.0	54885.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1311.9	2.4
10°-20°	2917.1	5.3
20°-30°	3707.4	6.8
30°-40°	4722.5	8.6
40°-50°	6696.7	12.2
50°-60°	10363.4	18.9
60°-70°	14108.5	25.7
70°-80°	9412.0	17.1
80°-90°	1645.5	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°	54885.0	100.0
0°-180°	54885.0	100.0

Coefficient of Utilization

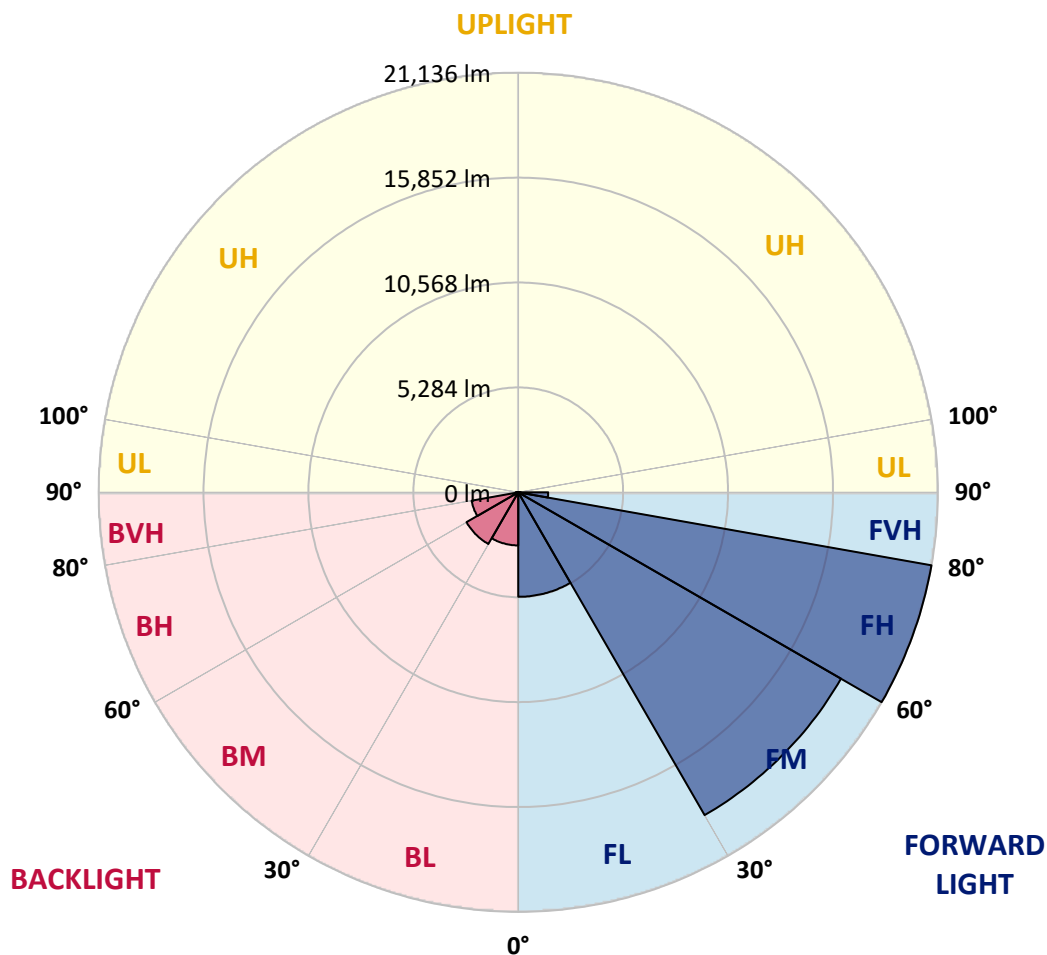


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5261.6	9.6			
FM (30°-60°)	18773.3	34.2			
FH (60°-80°)	21135.5	38.5			G5
FVH (80°-90°)	1508.8	2.7			G5
BL (0°-30°)	2674.8	4.9	B4/5000		
BM (30°-60°)	3009.3	5.5	B3/5000		
BH (60°-80°)	2384.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	136.7	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°	15206.8	15206.8	15206.8	15206.8	15206.8	15206.8	15206.8	15206.8	15206.8	15206.8	15206.8
2.5°	15610.2	15589.2	15596.8	15581.5	15545.2	15508.9	15455.4	15464.9	15390.4	15279.5	15141.8
5°	15315.8	15308.1	15365.5	15398.0	15424.8	15403.7	15388.4	15407.6	15298.6	15145.6	14906.7
7.5°	14698.3	14614.1	14686.8	14795.8	14899.0	14977.4	15080.6	15094.0	15025.2	14864.6	14551.1
10°	13820.7	13740.4	13847.5	14017.6	14224.1	14411.5	14619.9	14658.1	14671.5	14526.2	14145.7
12.5°	12910.7	12849.5	12956.6	13195.6	13537.8	13826.5	14159.1	14216.5	14335.0	14237.5	13771.0
15°	12096.2	12073.3	12203.3	12438.5	12832.3	13273.9	13753.8	13859.0	14059.7	14027.2	13478.5
17.5°	11392.7	11386.9	11486.4	11733.0	12168.9	12727.2	13350.4	13528.2	13826.5	13864.7	13237.6
20°	10868.8	10857.4	10926.2	11107.8	11557.1	12189.9	12914.5	13159.2	13589.4	13723.2	12989.1
22.5°	10587.8	10585.9	10587.8	10673.8	11040.9	11629.8	12490.1	12788.3	13358.1	13610.4	12713.8
25°	10540.0	10534.3	10492.2	10482.6	10691.0	11161.4	12069.5	12398.3	13138.2	13532.0	12451.8
27.5°	10664.3	10671.9	10616.5	10526.6	10568.7	10853.5	11704.3	12056.1	12962.3	13516.7	12270.2
30°	10922.4	10918.5	10870.7	10777.1	10694.9	10738.8	11444.3	11796.1	12843.8	13583.7	12146.0
32.5°	11207.2	11228.3	11218.7	11167.1	11044.7	10868.8	11365.9	11710.0	12809.4	13744.3	12092.4
35°	11549.5	11572.4	11641.2	11681.4	11538.0	11255.0	11534.2	11832.4	12908.8	14046.3	12178.5
37.5°	11874.5	11933.7	12126.8	12297.0	12174.6	11859.2	11981.5	12193.7	13216.6	14522.4	12409.8
40°	12249.2	12300.8	12616.3	12977.6	12958.5	12631.6	12702.3	12843.8	13759.5	15204.9	12828.5
42.5°	12618.2	12721.4	13178.3	13690.7	13837.9	13549.2	13662.0	13736.6	14524.3	16109.2	13558.8
45°	13109.5	13220.4	13855.1	14472.7	14816.8	14654.3	14834.0	14862.7	15485.9	17340.4	14619.9
47.5°	13853.2	13979.4	14719.3	15367.4	15893.2	15910.4	16206.7	16195.2	16686.6	18749.5	15956.3
50°	15011.8	15193.4	15799.5	16405.5	17044.1	17399.7	17795.5	17740.0	18126.2	20250.3	17495.3
52.5°	16529.8	16613.9	17063.2	17510.6	18304.0	19101.2	19669.1	19619.4	19758.9	21793.1	19242.7
55°	18103.3	18166.3	18351.8	18596.5	19663.3	20963.4	22164.0	22085.6	21731.9	23395.2	20969.1
57.5°	19518.0	19646.1	19774.2	19875.5	21032.2	22909.6	24716.3	24722.1	23873.2	25123.6	22752.9
60°	19737.9	19850.7	20697.6	21496.8	23374.2	25505.9	27448.4	27391.0	26089.0	26999.1	24741.2
62.5°	17447.5	17701.8	19116.5	21242.5	25630.2	30254.9	30933.6	30862.9	28738.9	29310.5	27056.4
65°	12503.5	12792.2	14499.4	17694.1	24536.6	35487.7	37223.6	36271.5	32352.2	32153.4	29767.4
67.5°	7213.4	7282.2	8022.1	10587.8	18682.5	35761.1	46819.2	45486.6	37963.5	35378.7	31094.2
70°	5334.0	5332.1	5508.0	6515.6	10109.8	29186.2	51382.7	52577.6	43871.1	36439.8	29218.7
71°	4823.6	4829.3	5026.2	5930.5	8006.8	24429.6	50413.4	53028.8	45427.3	35915.9	27861.3
72.5°	4125.8	4144.9	4418.3	5318.8	6735.4	16847.2	46238.0	50321.7	46165.3	34623.5	25737.3
75°	3129.7	3173.7	3552.2	4483.3	6156.1	8544.0	33935.2	40183.2	41011.0	30551.3	19124.2
77.5°	2233.0	2282.7	2711.0	3770.2	5852.2	6439.1	22726.1	29310.5	30180.4	19579.2	8626.2
80°	1410.9	1470.2	1793.3	2999.7	5498.5	6114.1	14281.5	19701.6	16457.2	6265.1	2194.8
82.5°	827.8	873.7	1112.7	1959.6	4490.9	5888.5	8402.6	10920.5	6404.7	1892.7	998.0
85°	479.9	500.9	694.0	1248.4	3261.6	5557.7	6173.3	6104.5	2779.8	925.3	472.2
87.5°	223.7	248.5	411.0	651.9	1810.5	4028.3	4879.0	4215.6	1728.3	434.0	221.8
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°	15206.8	15206.8	15206.8	15206.8	15206.8	15206.8	15206.8	15206.8	15206.8	15206.8	15206.8
2.5°	15074.9	15042.4	14906.7	14786.2	14660.0	14495.6	14314.0	14291.0	14180.2	14201.2	14162.9
5°	14776.6	14694.4	14367.5	14071.2	13721.3	13407.8	13067.5	12910.7	12685.1	12669.8	12612.4
7.5°	14350.3	14197.4	13690.7	13128.6	12566.6	12031.2	11501.7	11153.7	10798.1	10647.1	10633.7
10°	13870.4	13610.4	12864.8	12033.2	11222.5	10440.6	9683.5	9123.3	8618.6	8379.6	8370.1
12.5°	13415.4	13031.1	12008.3	10876.5	9767.6	8754.3	7716.2	6980.1	6347.3	6135.1	6045.3
15°	13029.2	12488.2	11174.7	9727.5	8381.5	6974.4	5792.9	5018.6	4433.6	4230.9	4192.7
17.5°	12654.5	11958.6	10320.1	8567.0	6940.0	5393.3	4209.9	3634.4	3322.8	3240.6	3238.7
20°	12281.7	11413.7	9427.3	7379.7	5546.3	4034.0	3236.8	2978.7	2873.5	2863.9	2848.6
22.5°	11859.2	10836.3	8488.6	6188.6	4328.4	3171.8	2751.1	2647.9	2634.5	2668.9	2668.9
25°	11463.4	10262.8	7536.5	5022.4	3366.8	2646.0	2456.7	2435.7	2472.0	2533.2	2538.9
27.5°	11094.4	9710.3	6607.3	3986.2	2697.6	2330.5	2252.2	2277.0	2342.0	2412.7	2414.7
30°	10790.5	9188.3	5704.9	3141.2	2278.9	2095.4	2082.0	2131.7	2202.4	2257.9	2271.3
32.5°	10555.3	8742.9	4833.1	2525.5	2005.5	1919.5	1931.0	1973.0	2017.0	2047.6	2068.6
35°	10446.3	8360.5	4028.3	2129.8	1831.5	1783.8	1799.0	1822.0	1841.1	1864.0	1881.3
37.5°	10465.4	8064.2	3309.4	1883.2	1714.9	1690.1	1690.1	1690.1	1690.1	1701.5	1703.5
40°	10643.2	7894.0	2724.4	1726.4	1636.5	1609.8	1588.7	1569.6	1554.3	1562.0	1558.2
42.5°	11098.3	7878.7	2296.1	1627.0	1573.4	1529.5	1487.4	1460.6	1441.5	1449.2	1453.0
45°	11870.6	8069.9	2007.4	1556.2	1514.2	1447.3	1393.7	1365.1	1351.7	1376.5	1380.4
47.5°	12870.5	8486.7	1831.5	1504.6	1458.7	1370.8	1313.4	1286.7	1290.5	1326.8	1336.4
50°	14159.1	9163.5	1747.4	1472.1	1420.5	1305.8	1246.5	1223.6	1235.1	1286.7	1298.1
52.5°	15573.9	10138.5	1757.0	1462.6	1395.6	1258.0	1194.9	1168.1	1187.3	1235.1	1244.6
55°	17206.6	11310.5	1915.7	1475.9	1359.3	1227.4	1152.8	1107.0	1122.3	1166.2	1173.9
57.5°	19020.9	12652.6	2234.9	1472.1	1313.4	1198.7	1108.9	1040.0	1051.5	1078.3	1085.9
60°	20909.8	14273.8	2730.1	1483.6	1292.4	1164.3	1049.6	963.6	959.7	982.7	986.5
62.5°	23177.3	16149.4	3296.0	1491.2	1305.8	1120.3	971.2	887.1	875.6	881.4	885.2
65°	25513.6	17506.8	3083.8	1460.6	1347.9	1084.0	902.4	812.5	791.5	787.7	789.6
67.5°	25586.2	16051.8	2162.3	1399.5	1365.1	1064.9	850.8	749.4	715.0	701.6	699.7
70°	22946.0	13040.7	1684.3	1334.5	1296.2	1034.3	803.0	697.8	646.2	625.2	623.3
71°	21657.4	12004.5	1596.4	1302.0	1244.6	1003.7	781.9	674.9	621.3	598.4	594.6
72.5°	19636.6	10761.8	1489.3	1250.3	1145.2	925.3	741.8	642.4	586.9	560.2	554.4
75°	14092.2	7037.5	1279.0	1114.6	948.3	738.0	650.0	577.4	529.6	497.1	493.3
77.5°	5429.6	2800.9	967.4	927.2	726.5	577.4	535.3	499.0	464.6	432.1	430.2
80°	1678.6	1252.3	705.5	697.8	525.8	430.2	416.8	407.2	393.8	359.4	351.8
82.5°	896.7	718.9	485.6	451.2	344.1	286.8	302.1	305.9	307.8	271.5	267.7
85°	428.3	380.5	273.4	256.2	200.7	160.6	185.4	200.7	202.7	166.3	154.9
87.5°	204.6	198.8	128.1	97.5	74.6	53.5	65.0	80.3	87.9	63.1	55.4
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)