

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: P319702

Luminaire Tested: **GAN-SA8D-740-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319702
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-SA8D-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 62189 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

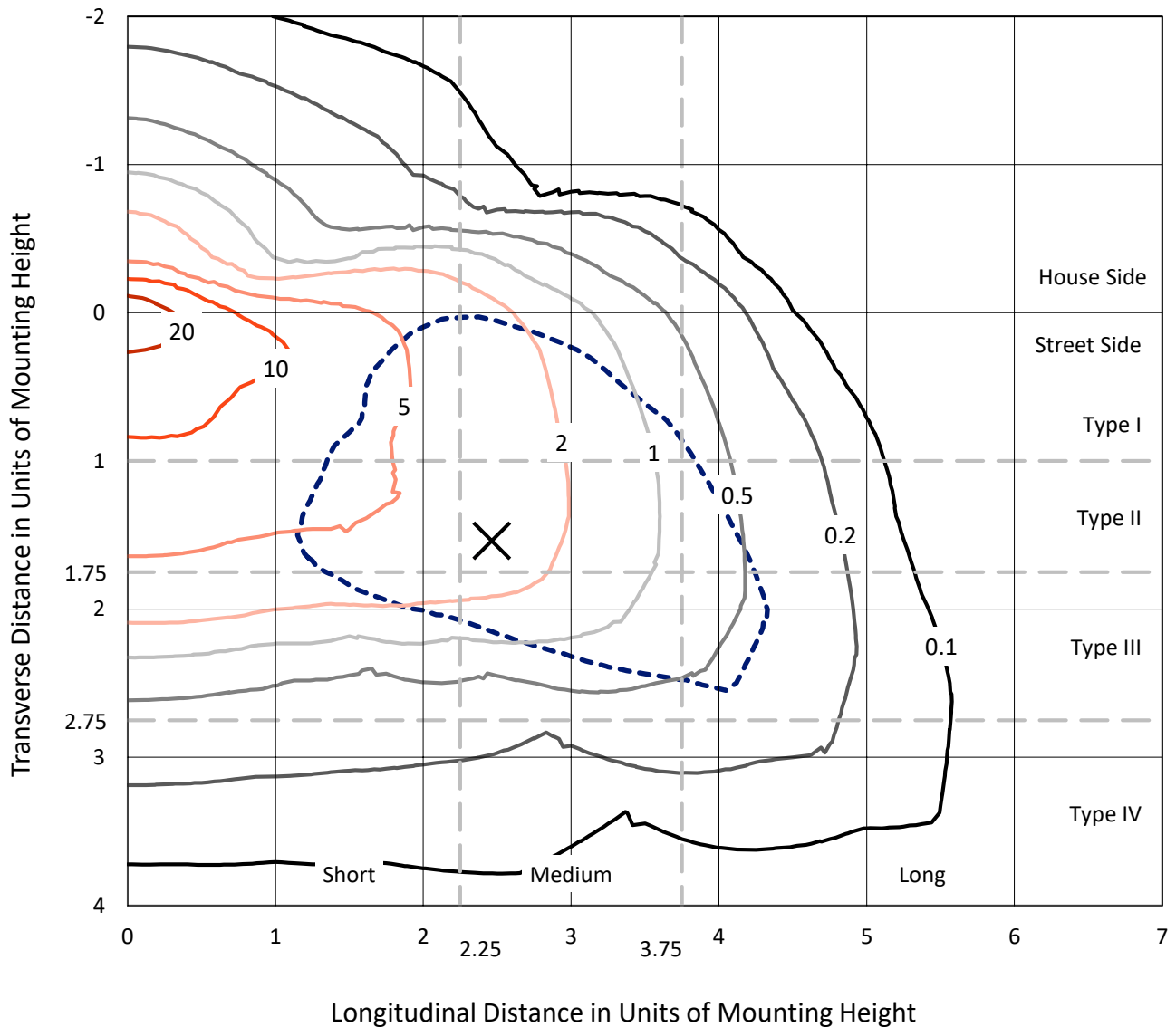
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

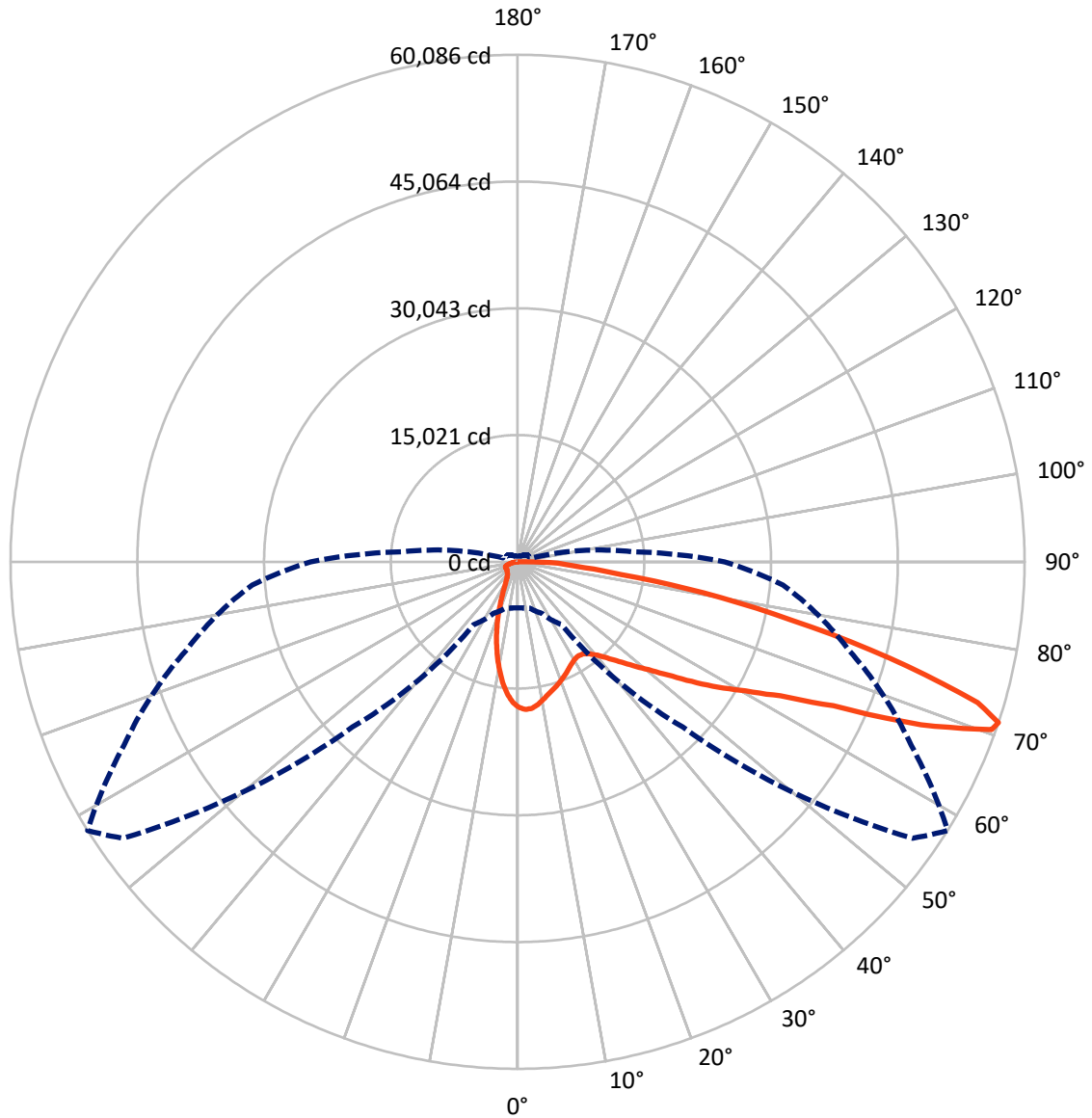
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.6 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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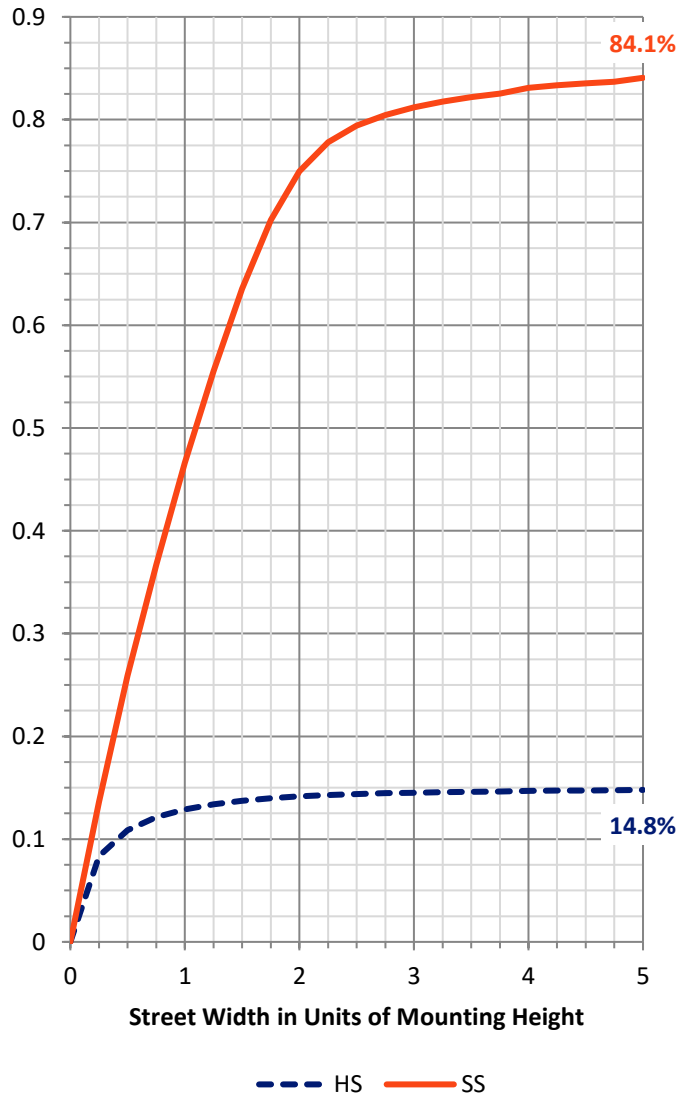
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9297.7	0.0	9297.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	52891.3	0.0	52891.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	62189.0	0.0	62189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1486.5	2.4
10°-20°	3305.3	5.3
20°-30°	4200.8	6.8
30°-40°	5350.9	8.6
40°-50°	7587.9	12.2
50°-60°	11742.5	18.9
60°-70°	15986.0	25.7
70°-80°	10664.5	17.1
80°-90°	1864.5	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°	62189.0	100.0
0°-180°	62189.0	100.0

Coefficient of Utilization

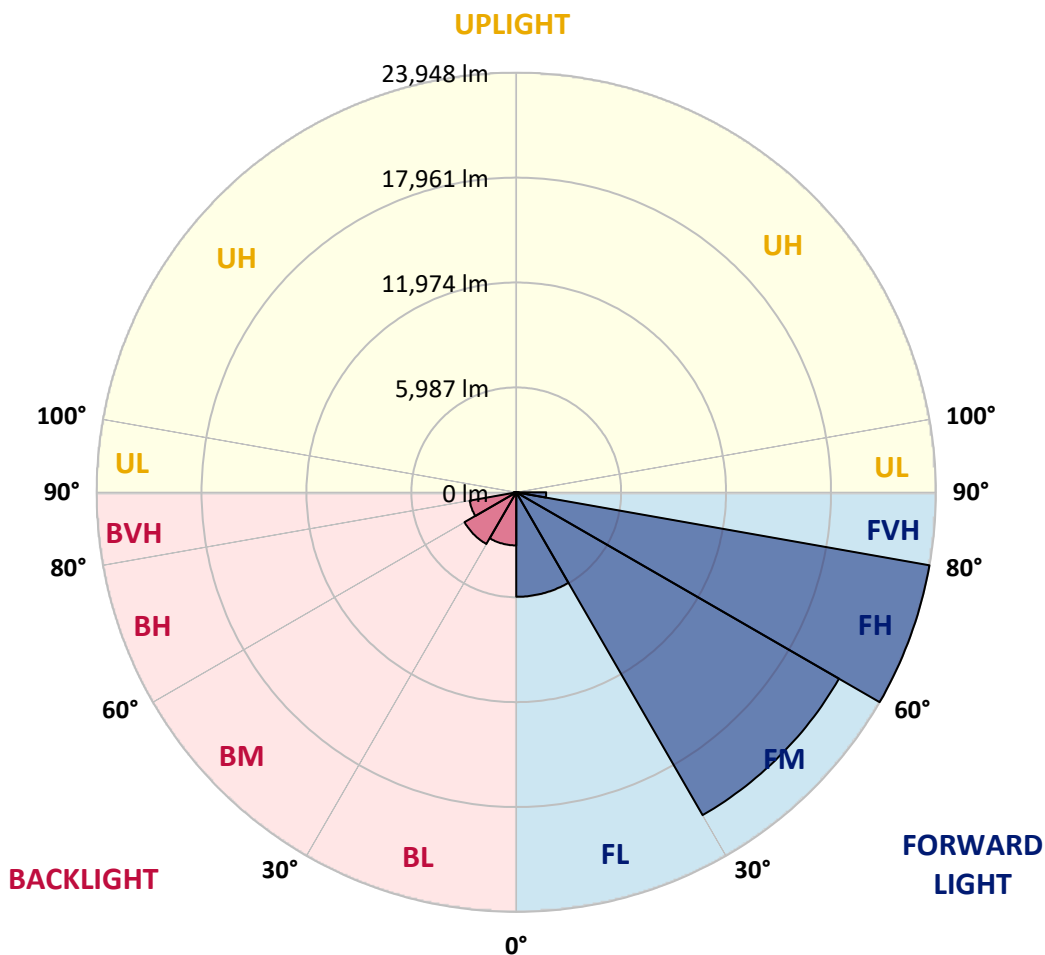


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5961.8	9.6			
FM (30°-60°)	21271.7	34.2			
FH (60°-80°)	23948.2	38.5			G5
FVH (80°-90°)	1709.6	2.7			G5
BL (0°-30°)	3030.8	4.9	B4/5000		
BM (30°-60°)	3409.7	5.5	B3/5000		
BH (60°-80°)	2702.3	4.3	B4/5000		G4/5000
BVH (80°-90°)	154.9	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°	17230.5	17230.5	17230.5	17230.5	17230.5	17230.5	17230.5	17230.5	17230.5	17230.5	17230.5
2.5°	17687.6	17663.8	17672.4	17655.1	17613.9	17572.8	17512.1	17523.0	17438.5	17312.8	17156.9
5°	17354.0	17345.3	17410.3	17447.1	17477.5	17453.6	17436.3	17458.0	17334.5	17161.2	16890.4
7.5°	16654.3	16559.0	16641.3	16764.8	16881.7	16970.6	17087.5	17102.7	17024.7	16842.7	16487.5
10°	15660.0	15569.0	15690.3	15883.1	16117.0	16329.3	16565.5	16608.8	16624.0	16459.3	16028.2
12.5°	14628.8	14559.5	14680.8	14951.6	15339.4	15666.5	16043.4	16108.4	16242.7	16132.2	15603.6
15°	13706.0	13680.0	13827.3	14093.8	14540.0	15040.4	15584.1	15703.3	15930.7	15893.9	15272.2
17.5°	12908.8	12902.3	13014.9	13294.4	13788.3	14420.9	15127.1	15328.5	15666.5	15709.8	14999.3
20°	12315.2	12302.2	12380.2	12586.0	13095.1	13812.1	14633.2	14910.4	15397.8	15549.5	14717.6
22.5°	11996.8	11994.6	11996.8	12094.3	12510.2	13177.4	14152.2	14490.2	15135.7	15421.7	14405.7
25°	11942.6	11936.1	11888.5	11877.7	12113.8	12646.7	13675.7	14048.3	14886.6	15332.9	14108.9
27.5°	12083.5	12092.1	12029.3	11927.5	11975.1	12297.9	13261.9	13660.5	14687.3	15315.5	13903.1
30°	12375.9	12371.6	12317.4	12211.3	12118.1	12167.9	12967.3	13365.9	14553.0	15391.3	13762.3
32.5°	12698.7	12722.5	12711.7	12653.2	12514.5	12315.2	12878.5	13268.4	14514.0	15573.3	13701.7
35°	13086.4	13112.4	13190.4	13235.9	13073.4	12752.8	13069.1	13407.0	14626.7	15915.6	13799.1
37.5°	13454.7	13521.9	13740.6	13933.4	13794.8	13437.4	13576.0	13816.5	14975.4	16455.0	14061.3
40°	13879.3	13937.8	14295.2	14704.6	14683.0	14312.5	14392.7	14553.0	15590.6	17228.3	14535.7
42.5°	14297.4	14414.4	14932.1	15512.7	15679.5	15352.4	15480.2	15564.6	16457.2	18253.0	15363.2
45°	14854.1	14979.8	15699.0	16398.7	16788.6	16604.5	16808.1	16840.6	17546.8	19648.1	16565.5
47.5°	15696.8	15839.8	16678.1	17412.5	18008.2	18027.7	18363.5	18350.5	18907.2	21244.6	18079.7
50°	17009.6	17215.3	17902.1	18588.8	19312.3	19715.2	20163.6	20100.8	20538.4	22945.1	19823.5
52.5°	18729.6	18824.9	19334.0	19840.9	20739.9	21643.2	22286.6	22230.3	22388.4	24693.3	21803.5
55°	20512.4	20583.9	20794.0	21071.3	22280.1	23753.1	25113.6	25024.7	24624.0	26508.6	23759.6
57.5°	22115.4	22260.6	22405.7	22520.5	23831.1	25958.4	28005.5	28012.0	27050.2	28467.0	25780.8
60°	22364.6	22492.4	23452.0	24357.5	26484.8	28900.2	31101.1	31036.1	29560.9	30592.1	28033.7
62.5°	19769.4	20057.5	21660.5	24069.4	29041.0	34281.2	35050.2	34970.1	32563.4	33211.1	30657.1
65°	14167.4	14494.5	16429.0	20048.8	27801.9	40210.3	42177.3	41098.5	36657.6	36432.3	33728.8
67.5°	8173.3	8251.3	9089.7	11996.8	21168.8	40520.1	53049.8	51539.9	43015.6	40086.8	35232.2
70°	6043.9	6041.7	6241.0	7382.6	11455.2	33070.3	58220.7	59574.6	49709.4	41289.1	33107.1
71°	5465.5	5472.0	5695.1	6719.8	9072.3	27680.6	57122.4	60085.8	51472.7	40695.5	31569.1
72.5°	4674.8	4696.5	5006.2	6026.6	7631.8	19089.2	52391.2	57018.4	52308.9	39231.1	29162.3
75°	3546.2	3596.0	4024.9	5079.9	6975.4	9681.1	38451.3	45530.7	46468.7	34617.0	21669.2
77.5°	2530.2	2586.5	3071.8	4271.9	6631.0	7296.0	25750.4	33211.1	34196.7	22184.8	9774.2
80°	1598.7	1665.9	2032.0	3398.9	6230.2	6927.7	16182.0	22323.4	18647.3	7098.9	2486.9
82.5°	938.0	990.0	1260.8	2220.4	5088.6	6672.1	9520.8	12373.7	7257.0	2144.6	1130.8
85°	543.7	567.6	786.4	1414.6	3695.7	6297.3	6994.9	6916.9	3149.8	1048.5	535.1
87.5°	253.5	281.6	465.7	738.7	2051.5	4564.3	5528.3	4776.6	1958.3	491.7	251.3
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°	17230.5	17230.5	17230.5	17230.5	17230.5	17230.5	17230.5	17230.5	17230.5	17230.5	17230.5
2.5°	17081.0	17044.2	16890.4	16753.9	16611.0	16424.7	16218.9	16192.9	16067.2	16091.1	16047.7
5°	16743.1	16650.0	16279.5	15943.7	15547.3	15192.1	14806.5	14628.8	14373.2	14355.9	14290.9
7.5°	16260.0	16086.7	15512.7	14875.8	14238.9	13632.3	13032.3	12638.0	12235.1	12064.0	12048.8
10°	15716.3	15421.7	14576.8	13634.5	12716.0	11830.0	10972.2	10337.4	9765.5	9494.8	9483.9
12.5°	15200.7	14765.3	13606.3	12323.9	11067.5	9919.3	8743.1	7909.1	7192.0	6951.6	6849.7
15°	14763.1	14150.1	12661.8	11022.0	9496.9	7902.6	6563.8	5686.5	5023.6	4794.0	4750.6
17.5°	14338.5	13550.0	11693.5	9707.1	7863.6	6111.0	4770.1	4118.1	3765.0	3671.8	3669.7
20°	13916.1	12932.6	10681.9	8361.8	6284.3	4570.8	3667.5	3375.0	3255.9	3245.1	3227.7
22.5°	13437.4	12278.4	9618.2	7012.2	4904.4	3593.8	3117.3	3000.3	2985.1	3024.1	3024.1
25°	12989.0	11628.5	8539.4	5690.8	3814.8	2998.1	2783.7	2759.8	2801.0	2870.3	2876.8
27.5°	12570.9	11002.5	7486.6	4516.7	3056.6	2640.7	2551.9	2580.0	2653.7	2733.8	2736.0
30°	12226.4	10411.1	6464.1	3559.2	2582.2	2374.2	2359.1	2415.4	2495.5	2558.4	2573.5
32.5°	11960.0	9906.4	5476.3	2861.6	2272.4	2174.9	2187.9	2235.6	2285.4	2320.1	2343.9
35°	11836.5	9473.1	4564.3	2413.2	2075.3	2021.1	2038.5	2064.5	2086.1	2112.1	2131.6
37.5°	11858.2	9137.3	3749.8	2133.8	1943.1	1915.0	1915.0	1915.0	1915.0	1928.0	1930.1
40°	12059.6	8944.5	3086.9	1956.1	1854.3	1824.0	1800.2	1778.5	1761.2	1769.8	1765.5
42.5°	12575.2	8927.2	2601.7	1843.5	1782.8	1733.0	1685.4	1655.0	1633.4	1642.0	1646.4
45°	13450.4	9143.8	2274.6	1763.3	1715.7	1639.9	1579.2	1546.7	1531.6	1559.7	1564.0
47.5°	14583.3	9616.1	2075.3	1704.9	1652.9	1553.2	1488.2	1457.9	1462.2	1503.4	1514.2
50°	16043.4	10382.9	1980.0	1668.0	1609.5	1479.6	1412.4	1386.4	1399.4	1457.9	1470.9
52.5°	17646.4	11487.7	1990.8	1657.2	1581.4	1425.4	1353.9	1323.6	1345.3	1399.4	1410.2
55°	19496.4	12815.7	2170.6	1672.4	1540.2	1390.7	1306.3	1254.3	1271.6	1321.4	1330.1
57.5°	21552.2	14336.4	2532.4	1668.0	1488.2	1358.3	1256.4	1178.5	1191.4	1221.8	1230.4
60°	23692.5	16173.4	3093.4	1681.0	1464.4	1319.3	1189.3	1091.8	1087.5	1113.5	1117.8
62.5°	26261.7	18298.5	3734.6	1689.7	1479.6	1269.4	1100.5	1005.1	992.2	998.7	1003.0
65°	28908.9	19836.5	3494.2	1655.0	1527.2	1228.3	1022.5	920.7	896.8	892.5	894.7
67.5°	28991.2	18188.0	2450.1	1585.7	1546.7	1206.6	964.0	849.2	810.2	795.0	792.9
70°	25999.6	14776.1	1908.5	1512.1	1468.7	1172.0	909.8	790.7	732.2	708.4	706.2
71°	24539.5	13602.0	1808.8	1475.2	1410.2	1137.3	886.0	764.7	704.0	678.0	673.7
72.5°	22249.8	12193.9	1687.5	1416.7	1297.6	1048.5	840.5	727.9	665.0	634.7	628.2
75°	15967.6	7974.0	1449.2	1262.9	1074.5	836.2	736.5	654.2	600.1	563.2	558.9
77.5°	6152.2	3173.6	1096.1	1050.6	823.2	654.2	606.6	565.4	526.4	489.6	487.4
80°	1902.0	1418.9	799.4	790.7	595.7	487.4	472.2	461.4	446.3	407.3	398.6
82.5°	1016.0	814.5	550.2	511.2	389.9	324.9	342.3	346.6	348.8	307.6	303.3
85°	485.2	431.1	309.8	290.3	227.5	182.0	210.1	227.5	229.6	188.5	175.5
87.5°	231.8	225.3	145.1	110.5	84.5	60.7	73.7	91.0	99.6	71.5	62.8
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)