

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: P323849

Luminaire Tested: **GAN-SA5C-740-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28691 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

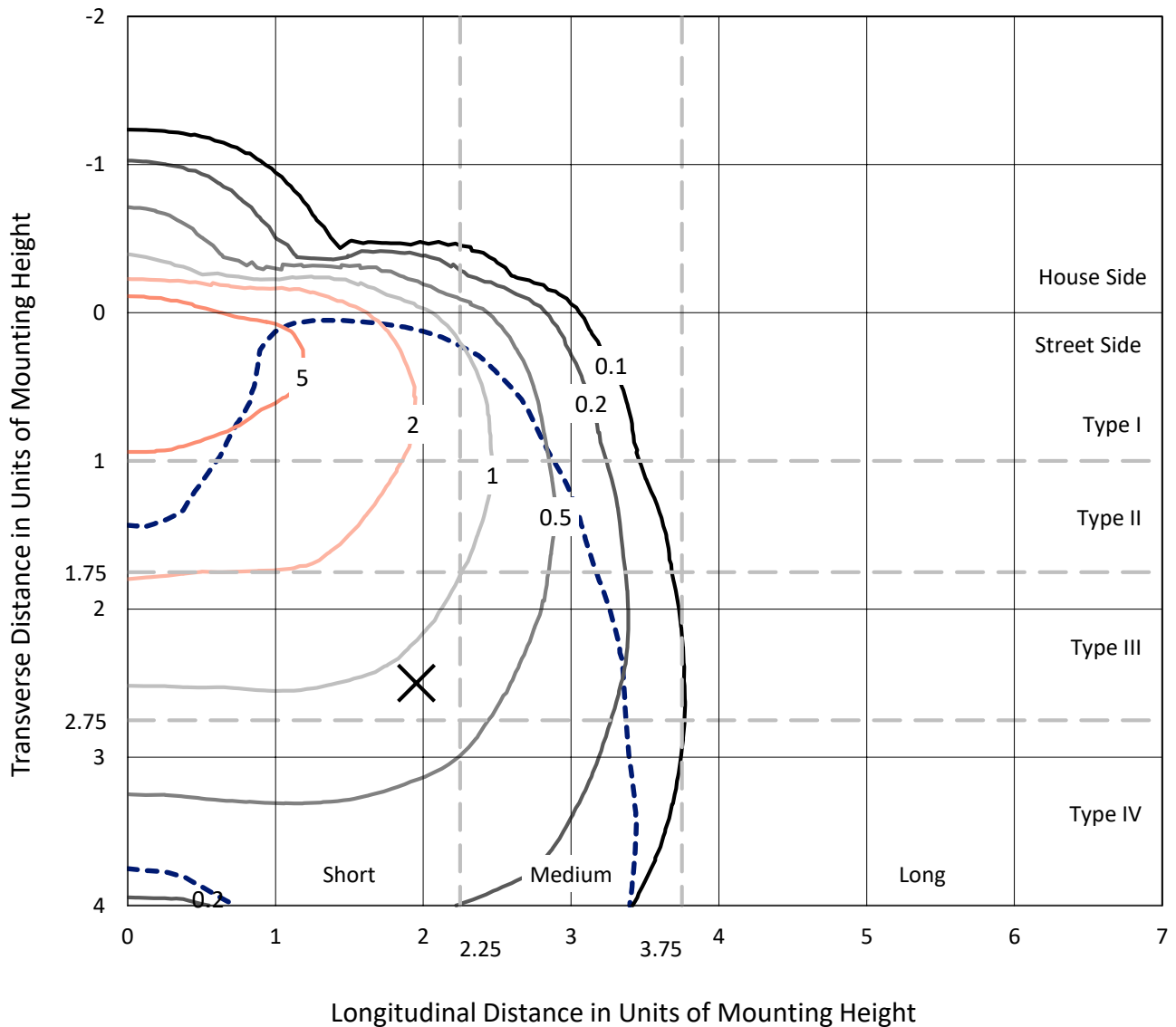
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

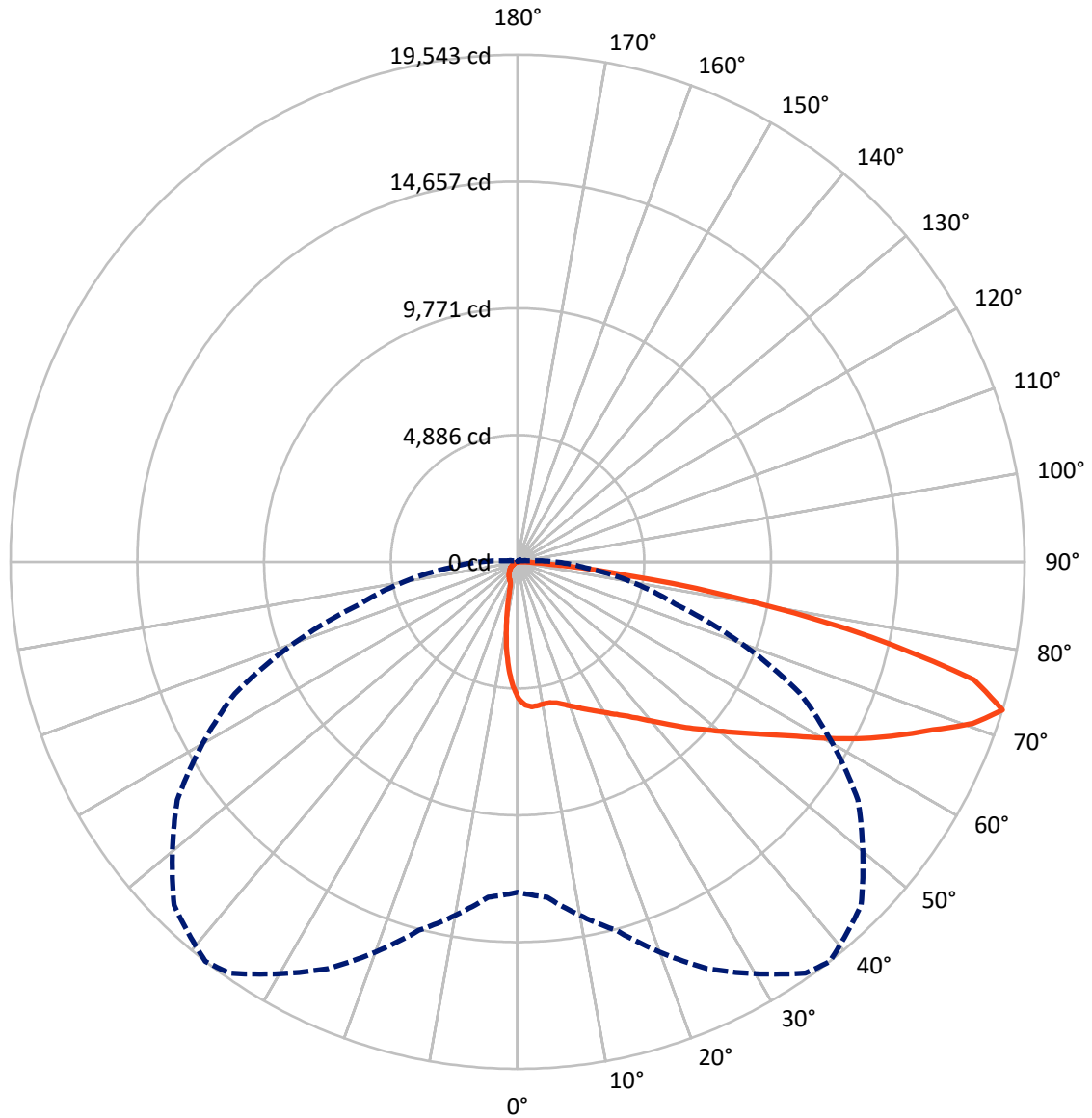
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2414.5	0.0	2414.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	26276.6	0.0	26276.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	28691.0	0.0	28691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.6	1.6
10°-20°	1099.5	3.8
20°-30°	1748.7	6.1
30°-40°	2628.9	9.2
40°-50°	4010.6	14.0
50°-60°	5668.3	19.8
60°-70°	7110.0	24.8
70°-80°	5316.3	18.5
80°-90°	659.2	2.3
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°	28691.0	100.0
0°-180°	28691.0	100.0

Coefficient of Utilization

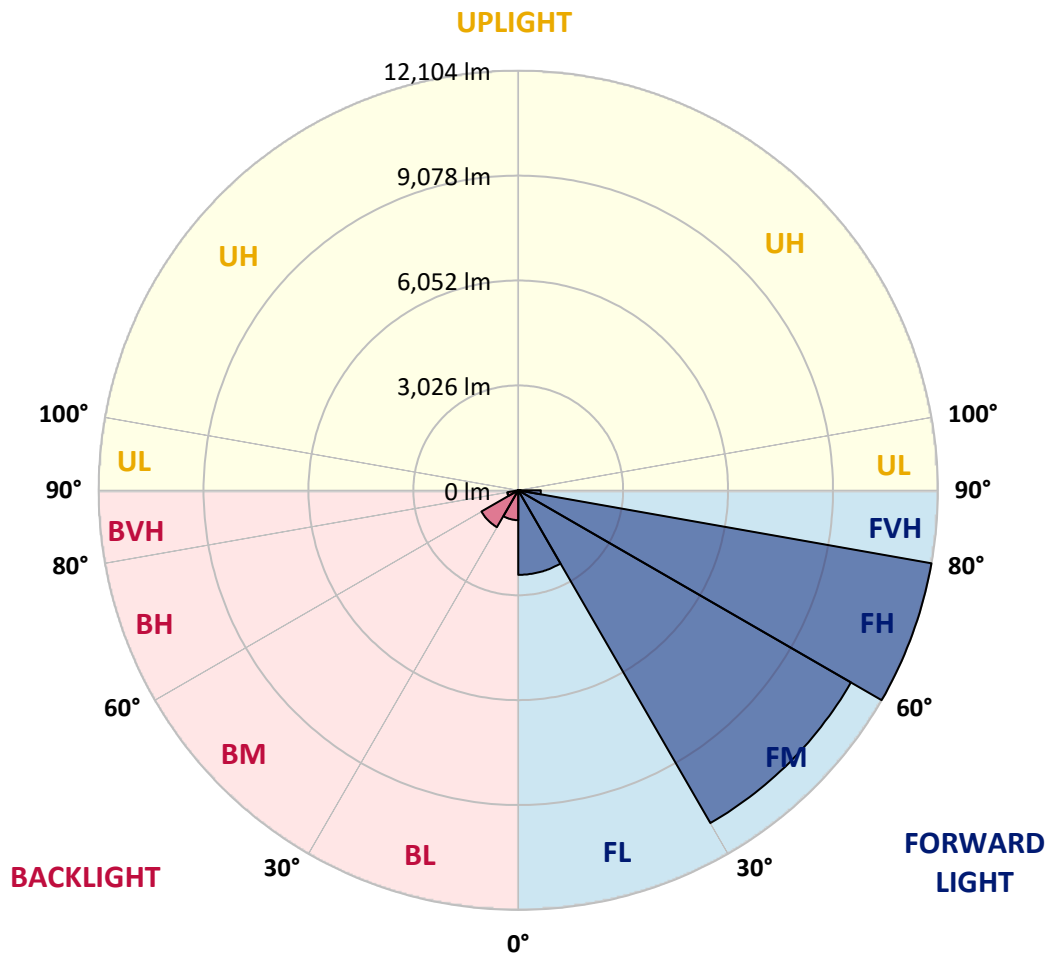


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2438.0	8.5			
FM (30°-60°)	11081.7	38.6			
FH (60°-80°)	12103.7	42.2			G5
FVH (80°-90°)	653.1	2.3			G4/750
BL (0°-30°)	859.7	3.0	B2/1000		
BM (30°-60°)	1226.1	4.3	B2/2500		
BH (60°-80°)	322.5	1.1	B1/500		G1/500
BVH (80°-90°)	6.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5276.2	5276.2	5276.2	5276.2	5276.2	5276.2	5276.2	5276.2	5276.2	5276.2	5276.2
2.5°	5600.3	5601.5	5588.4	5566.9	5539.5	5525.2	5501.4	5463.3	5422.7	5350.1	5271.4
5°	5714.7	5714.7	5698.0	5669.4	5625.3	5612.2	5566.9	5506.1	5422.7	5304.8	5172.5
7.5°	5702.8	5705.1	5682.5	5652.7	5608.6	5596.7	5541.9	5474.0	5370.3	5227.3	5058.1
10°	5640.8	5646.8	5628.9	5614.6	5574.1	5561.0	5509.7	5441.8	5338.1	5185.6	4991.4
12.5°	5577.6	5583.6	5589.6	5602.7	5577.6	5572.9	5532.4	5475.2	5376.3	5217.8	4998.5
15°	5537.1	5549.0	5591.9	5643.2	5649.1	5644.4	5618.2	5564.5	5464.4	5300.0	5049.8
17.5°	5537.1	5556.2	5645.6	5743.3	5777.8	5781.4	5758.8	5683.7	5564.5	5388.2	5097.4
20°	5583.6	5609.8	5749.2	5887.4	5944.6	5944.6	5900.6	5795.7	5656.3	5468.0	5129.6
22.5°	5702.8	5737.3	5912.5	6072.1	6132.9	6119.8	6060.2	5907.7	5751.6	5558.6	5170.1
25°	5937.5	5963.7	6146.0	6306.9	6343.8	6314.0	6239.0	6043.5	5873.1	5681.3	5244.0
27.5°	6240.1	6243.7	6432.0	6567.8	6545.2	6524.9	6430.8	6213.9	6048.3	5856.5	5371.5
30°	6572.6	6572.6	6738.2	6841.9	6772.8	6756.1	6662.0	6420.1	6272.3	6094.8	5552.6
32.5°	6894.3	6908.6	7043.2	7108.8	7031.3	7014.7	6922.9	6681.0	6570.2	6458.2	5835.0
35°	7205.3	7216.0	7343.5	7379.3	7305.4	7310.2	7244.6	7039.7	6998.0	6983.7	6260.4
37.5°	7506.8	7509.1	7639.0	7661.7	7624.7	7665.2	7671.2	7490.1	7567.5	7683.1	6859.7
40°	7782.0	7784.4	7913.1	7971.5	8034.6	8087.0	8133.5	8037.0	8293.2	8561.3	7573.5
42.5°	8002.4	8027.5	8190.7	8301.5	8468.3	8568.4	8694.7	8690.0	9157.1	9559.8	8436.2
45°	8196.7	8239.6	8467.1	8661.4	8947.3	9107.0	9304.8	9459.7	10129.4	10671.5	9309.6
47.5°	8452.9	8493.4	8753.1	9071.3	9452.6	9662.3	9989.9	10324.8	11198.2	11763.0	10162.7
50°	8813.9	8796.0	9052.2	9508.6	9998.3	10273.5	10740.6	11242.3	12258.7	12713.8	10664.4
52.5°	9198.8	9191.6	9381.1	9984.0	10641.7	10963.4	11580.7	12190.7	13272.7	13369.2	10894.3
55°	9675.4	9624.1	9783.8	10526.1	11405.5	11751.1	12477.9	13129.7	14080.5	13738.6	11009.9
57.5°	10174.6	10090.0	10242.6	11130.3	12267.0	12675.7	13471.7	14044.8	14617.9	13991.2	11008.7
60°	10690.6	10590.5	10771.6	11885.7	13337.0	13810.1	14548.8	14663.2	15119.6	14118.7	10927.7
62.5°	11121.9	11062.3	11331.6	12693.6	14532.1	14996.8	15362.6	15225.6	15542.6	14217.6	10738.2
65°	11578.3	11581.9	12016.8	13636.1	15802.3	16115.7	16146.7	15954.8	15896.5	14197.3	10097.2
67.5°	12195.5	12252.7	12978.4	14915.8	17038.0	17279.8	17277.5	16744.8	16155.0	13391.8	8675.7
70°	12848.5	12983.1	14086.5	16380.2	18386.8	18632.3	18506.0	17247.7	15211.3	10828.8	6140.1
72.5°	12738.9	12972.4	14702.5	17303.7	19355.5	19542.6	18721.6	16012.0	12022.7	6293.8	2614.3
75°	9827.9	10098.4	13481.2	16388.6	18339.1	18171.1	16085.9	12460.0	6570.2	1756.3	588.6
77.5°	5191.6	5335.8	8905.6	12485.1	14299.8	13948.3	11331.6	6912.2	2003.0	434.9	264.5
80°	2719.1	2752.5	3880.9	7083.8	8825.8	8828.2	6715.6	3036.1	825.7	222.8	177.5
82.5°	1456.1	1484.7	2050.7	3273.2	4624.4	4191.9	2571.4	1670.6	480.2	126.3	170.4
85°	350.3	356.3	1163.0	1495.4	1818.3	1298.8	763.8	1402.5	129.9	73.9	138.2
87.5°	134.6	137.0	431.3	647.0	463.5	300.3	357.5	523.1	16.7	28.6	21.4
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°	5276.2	5276.2	5276.2	5276.2	5276.2	5276.2	5276.2	5276.2	5276.2	5276.2	5276.2
2.5°	5223.8	5192.8	5116.5	5020.0	4934.2	4872.2	4779.3	4718.5	4678.0	4676.8	4661.3
5°	5091.5	5028.3	4863.9	4668.5	4490.9	4331.3	4143.0	3994.1	3883.3	3865.4	3827.3
7.5°	4949.7	4846.0	4593.4	4288.4	3990.5	3687.8	3336.3	3118.3	2931.2	2841.8	2832.3
10°	4862.7	4717.3	4358.7	3917.8	3450.7	2958.6	2498.7	2180.5	1950.6	1885.0	1836.2
12.5°	4844.8	4653.0	4177.6	3569.9	2902.6	2252.0	1743.2	1404.8	1221.3	1163.0	1147.5
15°	4862.7	4623.2	4025.1	3225.5	2347.4	1597.9	1170.1	973.5	904.4	887.7	886.5
17.5°	4873.4	4587.5	3852.3	2843.0	1808.8	1141.5	896.0	838.9	828.1	826.9	829.3
20°	4872.2	4532.7	3646.1	2416.5	1345.3	897.2	810.3	798.3	796.0	797.1	796.0
22.5°	4863.9	4468.3	3419.7	1976.8	1016.4	801.9	773.3	766.2	765.0	765.0	765.0
25°	4879.4	4417.1	3170.7	1556.2	837.7	757.8	740.0	734.0	732.8	732.8	730.4
27.5°	4935.4	4388.5	2897.8	1197.5	756.6	718.5	704.2	703.0	699.4	698.2	700.6
30°	5026.0	4388.5	2598.8	931.8	707.8	678.0	667.3	664.9	663.7	662.5	663.7
32.5°	5185.6	4421.8	2272.3	774.5	661.3	632.7	625.6	629.1	625.6	625.6	625.6
35°	5474.0	4521.9	1930.3	675.6	612.5	588.6	581.5	586.2	583.9	583.9	582.7
37.5°	5894.6	4707.8	1586.0	616.0	569.6	544.5	535.0	542.2	539.8	539.8	538.6
40°	6407.0	4978.3	1258.3	570.8	527.9	501.6	493.3	496.9	490.9	490.9	493.3
42.5°	7039.7	5321.5	972.3	526.7	486.2	461.1	456.4	452.8	442.1	436.1	437.3
45°	7742.7	5678.9	757.8	483.8	446.8	426.6	419.4	409.9	392.0	380.1	381.3
47.5°	8370.6	5954.2	616.0	442.1	411.1	395.6	384.9	367.0	340.8	326.5	327.7
50°	8700.7	5995.9	524.3	400.4	377.7	362.2	346.7	319.3	288.4	272.9	271.7
52.5°	8785.3	5800.5	456.4	362.2	344.4	326.5	306.2	269.3	234.7	218.1	215.7
55°	8816.3	5502.6	395.6	326.5	308.6	288.4	262.1	220.4	188.3	171.6	170.4
57.5°	8713.8	5058.1	347.9	294.3	272.9	247.8	215.7	176.3	145.4	132.3	132.3
60°	8486.2	4456.4	311.0	259.8	235.9	207.3	174.0	137.0	108.4	97.7	97.7
62.5°	8032.2	3677.1	276.4	224.0	201.4	171.6	140.6	103.7	76.3	70.3	71.5
65°	7175.5	2789.4	241.9	191.8	171.6	141.8	109.6	73.9	51.2	51.2	53.6
67.5°	5851.7	1937.5	206.1	163.2	147.8	115.6	83.4	51.2	35.7	40.5	45.3
70°	3873.7	1086.7	176.3	134.6	126.3	91.7	62.0	34.6	28.6	38.1	46.5
72.5°	1462.0	423.0	147.8	108.4	109.6	70.3	44.1	26.2	26.2	41.7	54.8
75°	407.5	207.3	106.0	79.8	85.8	51.2	32.2	22.6	25.0	47.7	64.3
77.5°	239.5	152.5	69.1	46.5	58.4	35.7	21.4	17.9	21.4	40.5	62.0
80°	193.0	81.0	40.5	23.8	32.2	20.3	14.3	10.7	6.0	15.5	32.2
82.5°	193.0	48.9	19.1	16.7	16.7	10.7	7.1	4.8	1.2	0.0	8.3
85°	129.9	20.3	11.9	10.7	8.3	3.6	2.4	1.2	0.0	0.0	0.0
87.5°	21.4	8.3	4.8	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
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)