

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: P321293

Luminaire Tested: **GAN-SA9C-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51040 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

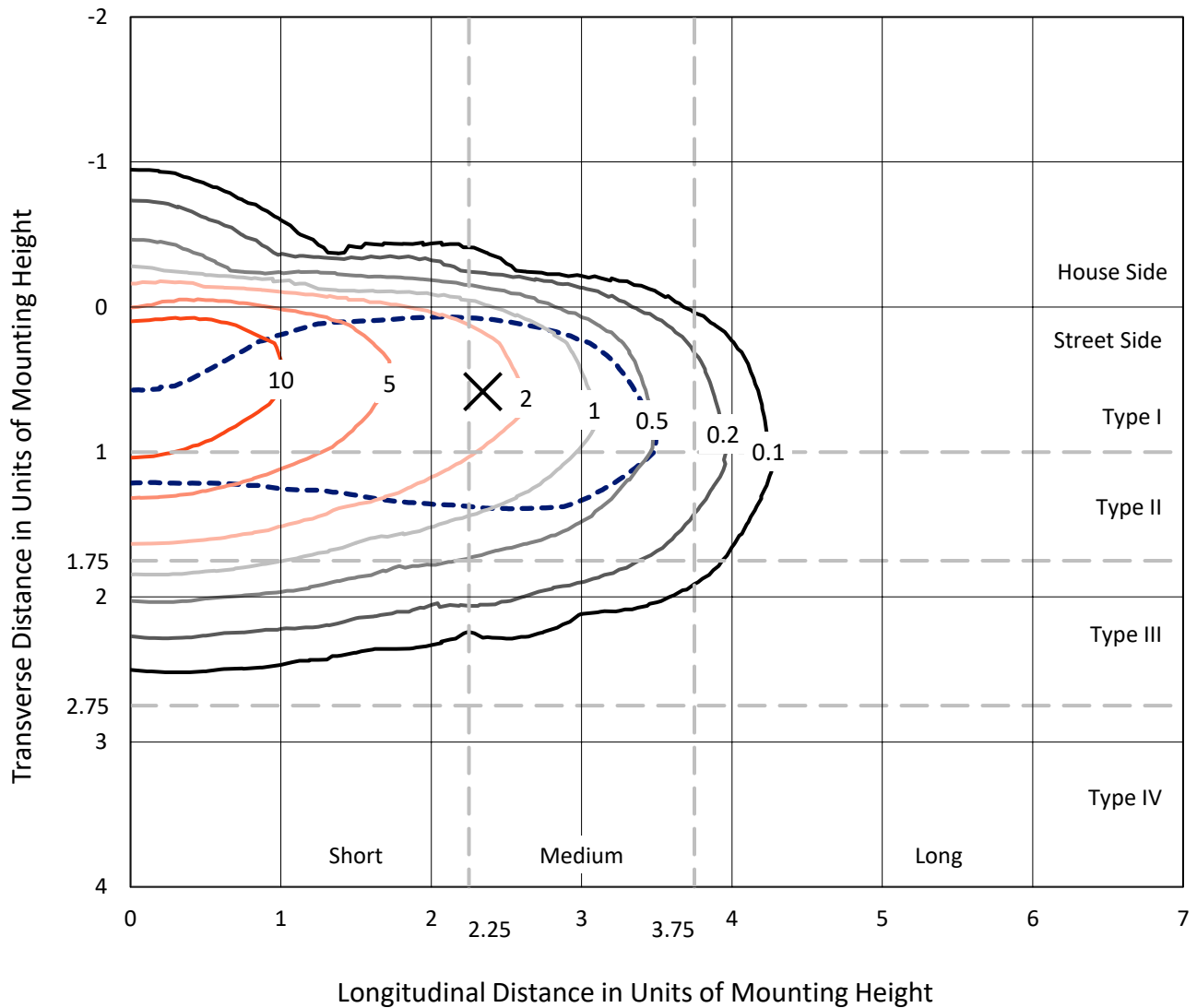
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

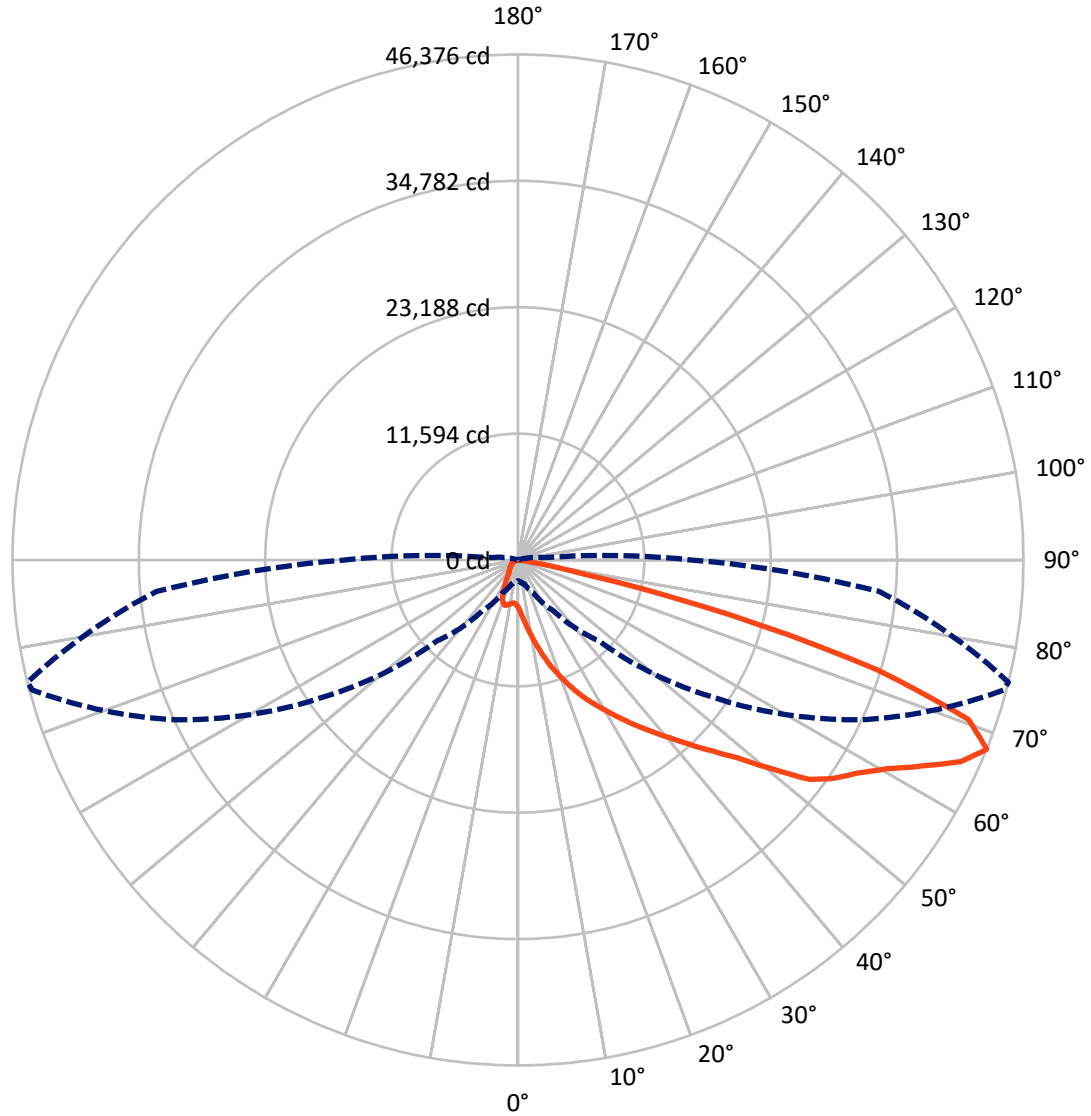
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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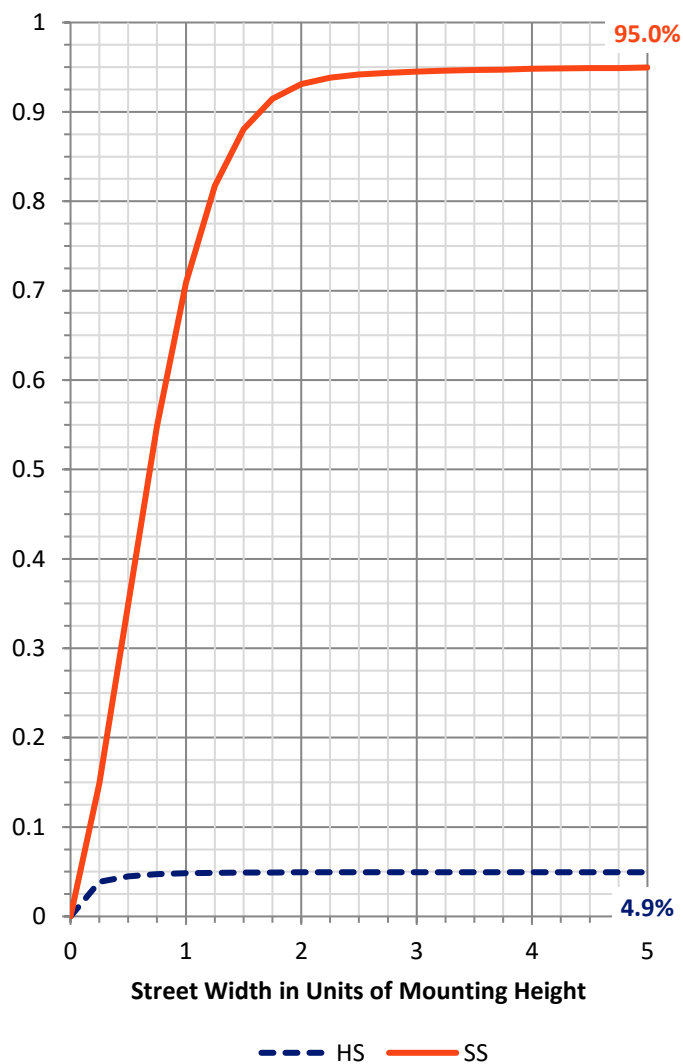
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2534.5	0.0	2534.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	48505.5	0.0	48505.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	51040.0	0.0	51040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.4	1.1
10°-20°	2134.2	4.2
20°-30°	4342.5	8.5
30°-40°	7537.1	14.8
40°-50°	10649.0	20.9
50°-60°	12076.5	23.7
60°-70°	10016.3	19.6
70°-80°	3628.2	7.1
80°-90°	117.7	0.2
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°	51040.0	100.0
0°-180°	51040.0	100.0

Coefficient of Utilization

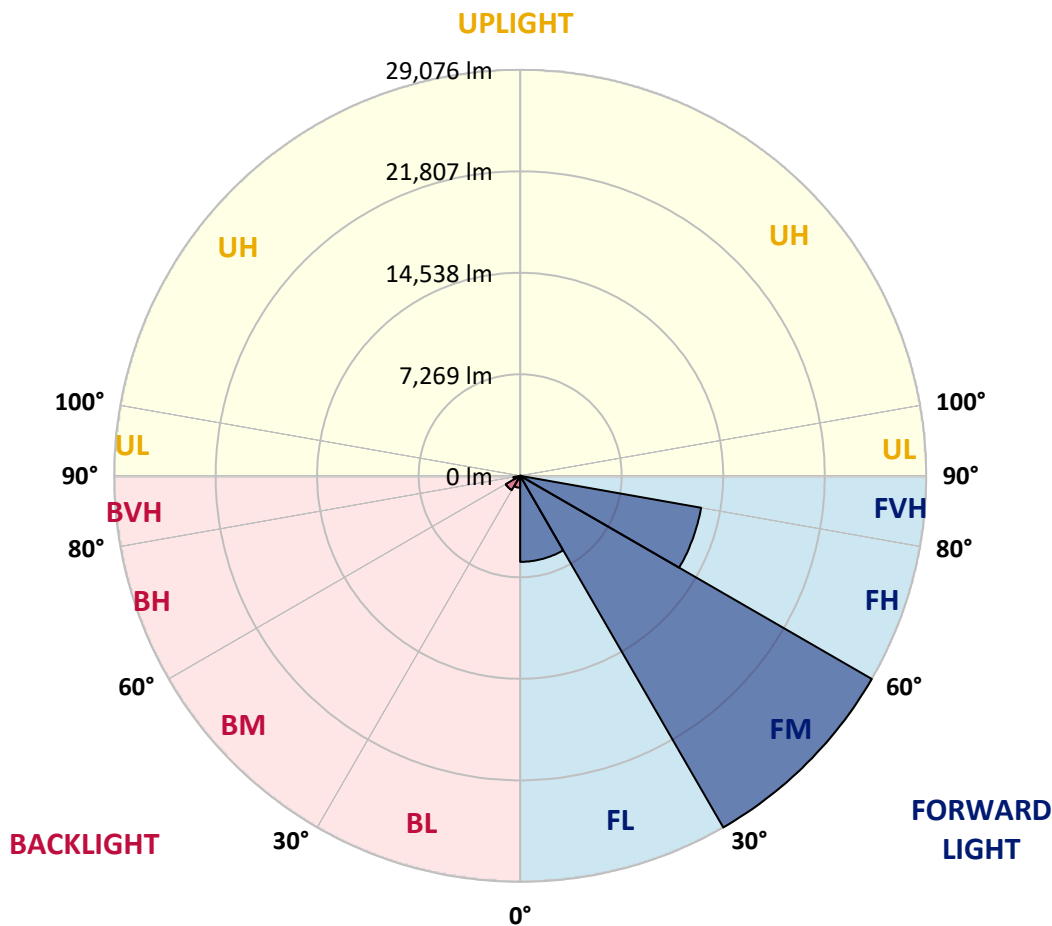


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6160.4	12.1			
FM (30°-60°)	29076.5	57.0			
FH (60°-80°)	13154.7	25.8			G5
FVH (80°-90°)	114.0	0.2			G2/225
BL (0°-30°)	854.8	1.7	B2/1000		
BM (30°-60°)	1186.2	2.3	B2/2500		
BH (60°-80°)	489.8	1.0	B1/500		G1/500
BVH (80°-90°)	3.7	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4329.7	4329.7	4329.7	4329.7	4329.7	4329.7	4329.7	4329.7	4329.7	4329.7	4329.7
2.5°	6463.2	6317.8	6351.4	6257.4	6087.5	5738.6	5441.2	5159.4	4830.6	4819.4	4548.8
5°	8715.3	8592.2	8576.6	8386.5	8077.9	7485.2	6908.2	6250.7	5517.2	5463.5	4888.8
7.5°	10759.3	10660.9	10625.1	10399.3	9824.5	9247.5	8496.1	7530.0	6382.7	6284.3	5347.2
10°	12329.3	12282.3	12291.3	12130.2	11638.2	11101.5	10115.2	8883.0	7364.5	7212.4	5897.4
12.5°	13519.0	13530.2	13610.7	13512.3	13237.3	12839.2	11785.8	10325.5	8451.4	8243.4	6525.8
15°	14393.5	14449.4	14597.0	14720.0	14699.9	14355.5	13389.3	11790.3	9605.3	9375.0	7225.8
17.5°	14959.3	15021.9	15236.6	15509.4	15759.9	15679.4	14936.9	13203.7	10772.7	10506.6	7975.0
20°	15455.8	15529.6	15759.9	16120.0	16587.4	16688.0	16200.5	14574.6	11937.9	11613.6	8748.8
22.5°	16531.5	16529.2	16670.1	16880.3	17325.4	17584.8	17276.2	15847.1	13089.6	12752.0	9538.2
25°	18477.1	18403.3	18354.1	18188.6	18287.0	18448.1	18275.9	17036.9	14248.1	13905.9	10338.9
27.5°	20789.6	20834.3	20436.2	19991.2	19646.8	19481.3	19199.5	18139.4	15361.8	14986.1	11121.6
30°	23229.5	23242.9	22773.3	22205.2	21447.1	20818.6	20331.1	19192.8	16506.9	16097.6	11882.0
32.5°	25430.1	25342.9	24877.7	24103.9	23146.7	22440.0	21426.9	20369.1	17719.0	17323.2	12727.4
35°	27174.5	27071.6	26505.8	25801.3	24808.4	24097.2	22878.4	21543.2	18993.7	18606.8	13574.9
37.5°	28449.2	28328.5	27747.0	27022.4	26165.9	25752.1	24562.4	22820.2	20384.8	19968.8	14467.3
40°	28892.1	28786.9	28422.4	27892.4	27203.6	27109.6	26349.3	24289.5	21898.8	21456.0	15478.1
42.5°	28628.2	28525.3	28395.6	28216.7	27930.4	28019.9	28035.5	25964.6	23580.6	23144.5	16594.1
45°	27581.5	27489.8	27624.0	27885.7	28241.3	28684.1	29574.2	27764.9	25459.2	24994.0	17884.5
47.5°	26040.6	25973.5	26344.8	26997.8	28037.7	29258.8	30980.8	29656.9	27568.1	27136.5	19494.7
50°	23849.0	23837.8	24580.3	25772.3	27371.3	29536.1	32434.5	31808.3	30497.8	30043.8	21733.3
52.5°	20436.2	20458.6	21919.0	23826.6	26201.7	29348.3	33369.3	34572.5	33906.1	33434.2	23672.3
55°	17186.7	17320.9	18356.4	21107.1	24408.1	28650.5	33691.4	35862.9	35786.9	35339.6	24750.2
57.5°	14004.3	14248.1	15245.5	17815.2	21789.2	27042.5	33514.7	36422.0	37186.9	36844.7	26172.6
60°	10555.8	10667.6	11817.1	14219.0	18427.9	24108.4	32233.2	36726.2	39101.2	38864.2	28236.8
62.5°	6715.9	6995.5	8015.3	10332.2	14348.7	20033.7	30072.9	36721.7	41496.4	41626.1	30900.3
65°	3538.0	3864.5	4405.7	6402.8	9860.3	15482.6	26823.4	36377.3	44435.0	44616.2	32982.4
67.5°	1907.6	2001.6	2287.8	3323.3	5718.5	10488.7	22048.7	34677.6	46136.9	46376.2	33273.2
70°	1395.5	1447.0	1554.3	1838.3	2878.2	6092.0	16088.7	30824.3	43943.0	43853.6	29563.0
72.5°	1071.2	1151.7	1232.3	1346.3	1654.9	3251.7	10016.8	24137.5	35062.3	34471.9	22097.9
75°	845.4	858.8	972.8	1075.7	1241.2	1851.7	4448.2	14058.0	21400.1	20002.4	11459.3
77.5°	675.4	684.3	751.4	840.9	997.4	1216.6	1377.6	5530.6	6832.2	6096.4	2486.9
80°	400.3	422.7	559.1	648.6	827.5	767.1	503.2	1200.9	1066.8	966.1	418.2
82.5°	223.6	241.5	315.3	512.1	577.0	366.8	250.5	324.3	250.5	243.8	118.5
85°	0.0	11.2	203.5	317.6	234.8	80.5	105.1	107.3	73.8	69.3	47.0
87.5°	0.0	0.0	62.6	60.4	8.9	13.4	24.6	35.8	29.1	29.1	24.6
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°	4329.7	4329.7	4329.7	4329.7	4329.7	4329.7	4329.7	4329.7	4329.7	4329.7	4329.7
2.5°	4414.7	4293.9	4065.8	3842.1	3654.3	3500.0	3361.3	3305.4	3260.7	3254.0	3218.2
5°	4611.5	4367.7	3931.6	3573.8	3334.5	3164.5	3019.1	2929.7	2860.4	2833.5	2808.9
7.5°	4908.9	4539.9	3913.7	3502.2	3215.9	2929.7	2661.3	2370.6	2189.4	2120.1	2079.9
10°	5271.2	4768.0	3980.8	3482.1	2981.1	2377.3	1932.2	1563.2	1413.4	1364.2	1350.8
12.5°	5693.9	5052.0	4097.1	3356.8	2480.2	1688.5	1332.9	1207.7	1174.1	1158.5	1158.5
15°	6179.2	5362.9	4179.8	2994.5	1833.8	1277.0	1154.0	1095.8	1060.1	1039.9	1042.2
17.5°	6675.7	5667.0	4139.6	2469.0	1353.0	1136.1	1044.4	981.8	932.6	912.5	908.0
20°	7176.6	5948.8	3915.9	1838.3	1145.0	1031.0	928.1	858.8	809.6	789.4	785.0
22.5°	7695.5	6188.1	3522.3	1348.5	1028.7	914.7	814.0	744.7	697.8	679.9	670.9
25°	8200.9	6382.7	2972.2	1091.4	919.2	805.1	708.9	644.1	601.6	583.7	581.5
27.5°	8672.8	6505.7	2334.8	963.9	823.0	706.7	619.5	561.3	525.6	512.1	509.9
30°	9097.7	6516.9	1726.5	870.0	738.0	621.7	541.2	489.8	458.5	445.0	440.6
32.5°	9527.1	6422.9	1256.9	785.0	659.7	547.9	469.6	429.4	407.0	395.8	395.8
35°	9931.9	6206.0	979.5	711.2	583.7	476.4	413.7	384.7	371.2	360.1	360.1
37.5°	10327.7	5895.2	831.9	646.3	512.1	416.0	364.5	346.6	335.5	324.3	324.3
40°	10730.2	5503.8	755.9	585.9	454.0	369.0	324.3	308.6	297.4	288.5	286.3
42.5°	11224.5	5052.0	706.7	530.0	402.6	326.5	286.3	268.4	259.4	250.5	246.0
45°	11797.0	4662.9	666.4	474.1	360.1	290.7	248.2	230.3	216.9	205.7	203.5
47.5°	12622.2	4381.1	612.8	413.7	319.8	252.7	214.7	194.6	174.4	163.3	161.0
50°	13675.6	4148.5	543.4	360.1	279.5	214.7	178.9	154.3	136.4	125.2	125.2
52.5°	14198.9	3844.4	480.8	313.1	234.8	181.1	145.4	116.3	107.3	96.2	96.2
55°	14409.1	3611.8	418.2	266.1	194.6	149.8	114.1	89.5	82.7	76.0	73.8
57.5°	14999.5	3544.7	364.5	225.9	161.0	118.5	87.2	67.1	62.6	53.7	53.7
60°	15950.0	3578.2	315.3	192.3	129.7	91.7	64.9	51.4	47.0	38.0	38.0
62.5°	16976.5	3535.7	266.1	165.5	100.6	67.1	44.7	38.0	38.0	22.4	20.1
65°	17173.3	3148.9	228.1	136.4	78.3	49.2	29.1	24.6	33.5	4.5	0.0
67.5°	15938.8	2442.1	196.8	105.1	58.1	38.0	22.4	11.2	29.1	0.0	0.0
70°	12745.2	1552.1	158.8	76.0	44.7	31.3	17.9	4.5	22.4	0.0	0.0
72.5°	9012.7	901.3	125.2	53.7	38.0	24.6	13.4	0.0	13.4	0.0	0.0
75°	4557.8	480.8	78.3	40.3	29.1	17.9	8.9	0.0	2.2	0.0	0.0
77.5°	986.3	223.6	49.2	29.1	20.1	11.2	4.5	0.0	0.0	0.0	0.0
80°	214.7	98.4	31.3	17.9	11.2	6.7	0.0	0.0	0.0	0.0	0.0
82.5°	78.3	51.4	15.7	8.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.5	26.8	8.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.4	8.9	2.2	2.2	0.0	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)