

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: P383586

Luminaire Tested: **GAN-SA8D-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49488.5 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

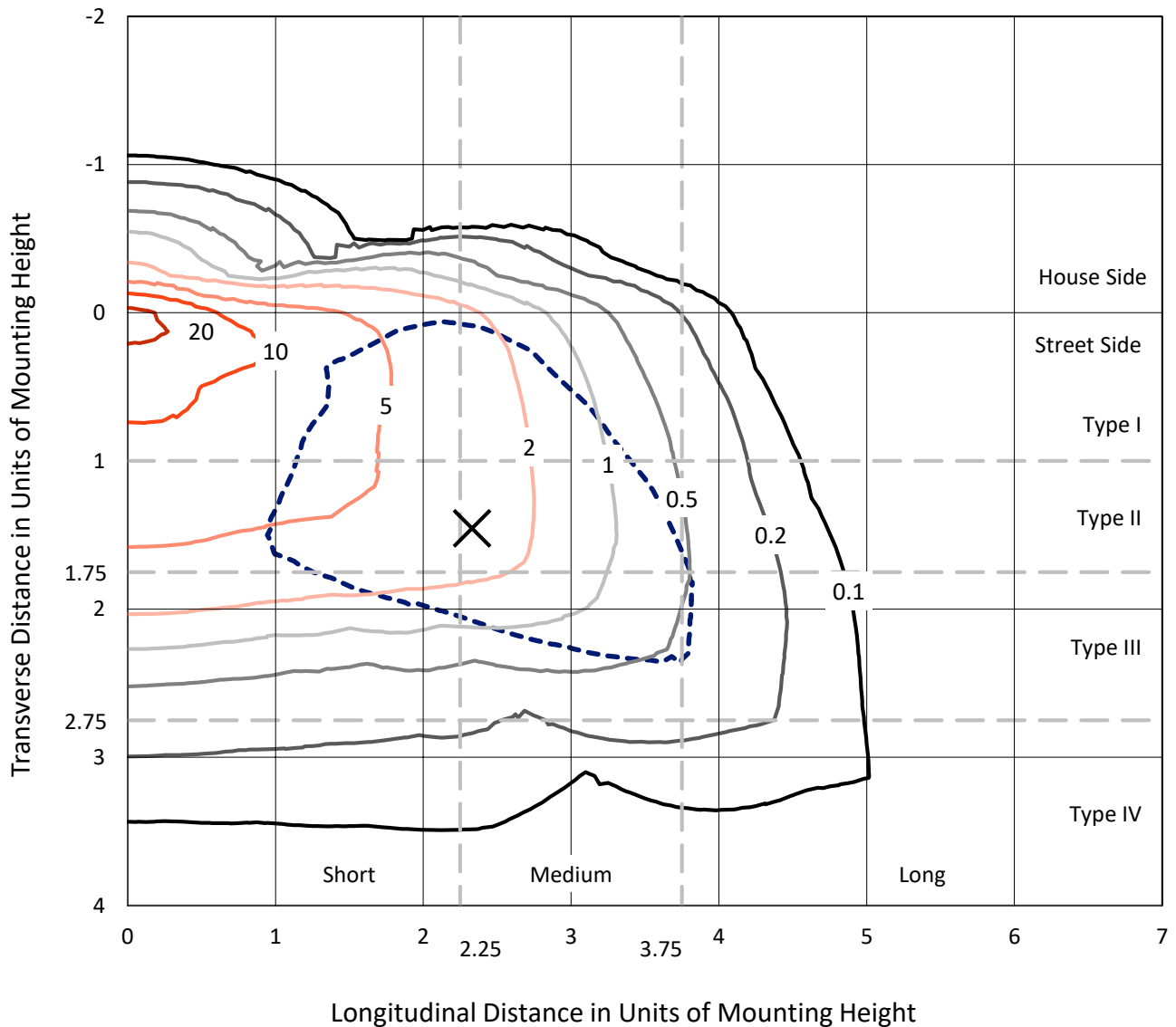
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

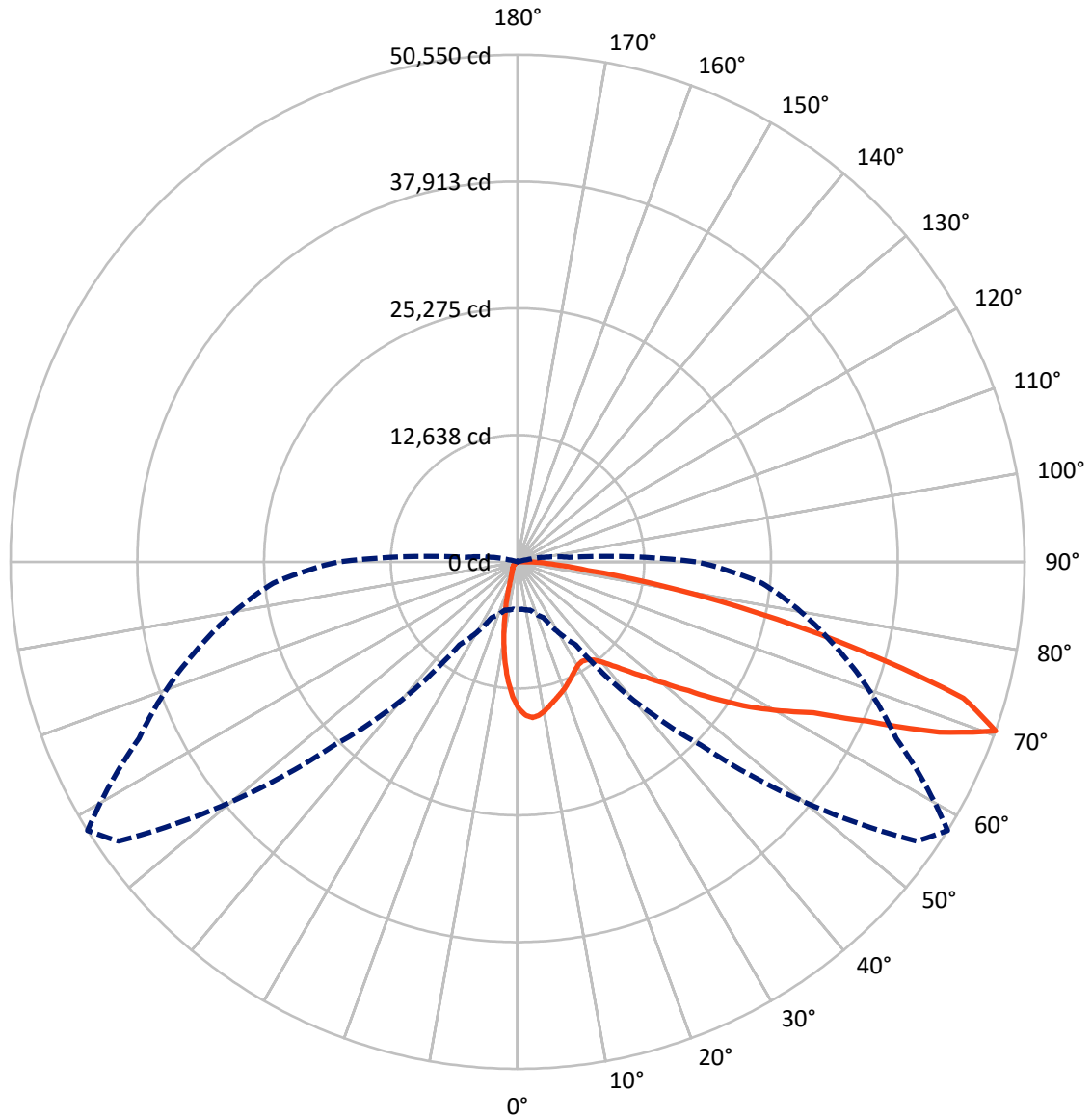
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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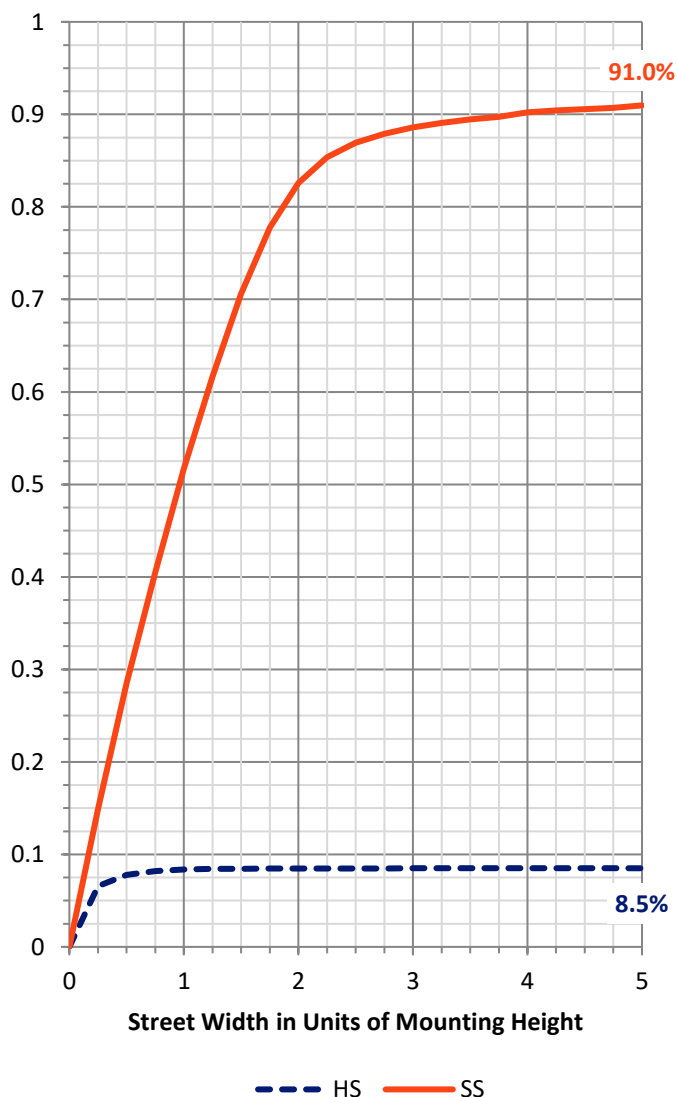
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4235.1	0.0	4235.1
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	45253.3	0.0	45253.3
	% Fixture	91.4	0.0	91.4
Total	Lumens	49488.5	0.0	49488.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1195.4	2.4
10°-20°	2508.9	5.1
20°-30°	3298.4	6.7
30°-40°	4368.3	8.8
40°-50°	6529.3	13.2
50°-60°	10459.7	21.1
60°-70°	13184.4	26.6
70°-80°	7111.6	14.4
80°-90°	832.4	1.7
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°	49488.5	100.0
0°-180°	49488.5	100.0

Coefficient of Utilization

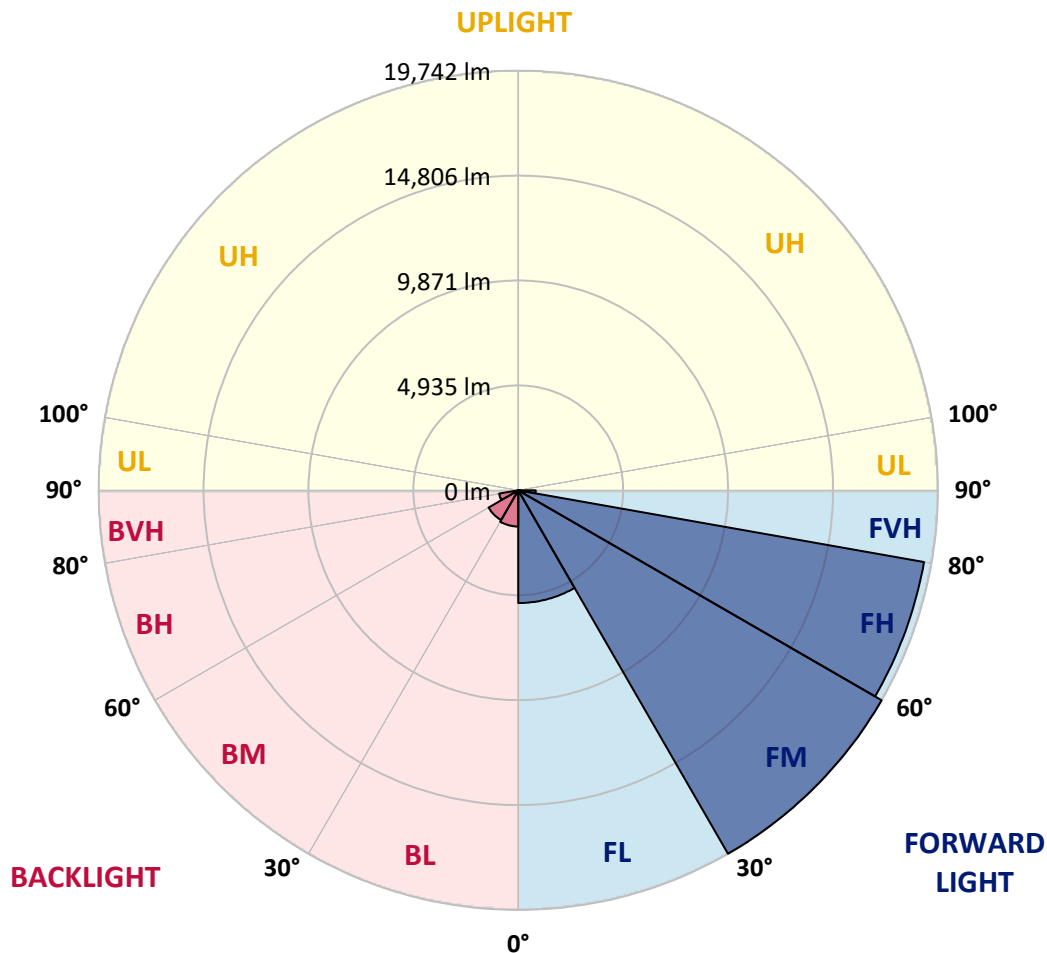


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5301.2	10.7			
FM (30°-60°)	19741.7	39.9			
FH (60°-80°)	19385.2	39.2			G5
FVH (80°-90°)	825.2	1.7			G5
BL (0°-30°)	1701.5	3.4	B3/2500		
BM (30°-60°)	1615.6	3.3	B2/2500		
BH (60°-80°)	910.8	1.8	B2/1000		G2/1000
BVH (80°-90°)	7.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	14618.7	14618.7	14618.7	14618.7	14618.7	14618.7	14618.7	14618.7	14618.7	14618.7	14618.7
2.5°	15830.7	15791.6	15777.2	15752.5	15657.8	15565.2	15382.1	15330.7	15215.4	14941.7	14651.6
5°	15843.0	15841.0	15884.2	15873.9	15841.0	15797.7	15666.1	15598.2	15402.7	15011.7	14480.8
7.5°	15079.6	15118.7	15215.4	15293.6	15384.1	15501.4	15517.9	15452.0	15291.5	14869.7	14166.0
10°	14054.8	14116.6	14252.4	14406.7	14643.4	14877.9	15087.8	15079.6	15024.1	14608.3	13787.3
12.5°	13028.0	13100.0	13256.4	13484.8	13820.3	14203.0	14577.5	14628.9	14721.5	14373.8	13437.5
15°	12128.7	12190.4	12344.8	12624.6	13040.4	13554.8	14104.2	14198.8	14437.6	14190.6	13145.3
17.5°	11365.3	11404.4	11517.6	11828.2	12309.8	12933.3	13647.4	13832.6	14188.6	14046.6	12892.2
20°	10832.3	10838.5	10912.5	11130.7	11612.2	12309.8	13174.0	13439.5	13925.1	13923.1	12630.9
22.5°	10568.9	10548.3	10562.7	10688.2	11042.2	11715.0	12700.8	13015.6	13688.5	13818.2	12365.4
25°	10519.5	10503.0	10461.9	10478.3	10692.4	11194.5	12223.4	12587.6	13480.7	13754.4	12134.9
27.5°	10673.9	10690.3	10620.3	10546.2	10562.7	10857.0	11799.4	12221.3	13311.9	13754.4	11972.3
30°	10984.5	10992.8	10941.4	10844.6	10715.0	10762.4	11505.2	11927.1	13227.6	13849.0	11869.4
32.5°	11328.3	11373.5	11367.3	11289.1	11104.0	10912.5	11435.2	11820.0	13221.4	14058.9	11859.2
35°	11754.2	11805.6	11892.0	11875.6	11682.2	11367.3	11674.0	11976.4	13342.8	14404.6	11970.3
37.5°	12206.9	12285.1	12470.3	12558.8	12433.3	12077.2	12209.0	12425.1	13667.9	14964.4	12252.2
40°	12645.2	12733.7	13071.2	13418.9	13324.3	12958.0	13019.8	13192.6	14246.2	15769.0	12787.2
42.5°	13075.3	13207.0	13703.0	14275.0	14388.2	14096.0	14128.9	14266.7	15104.3	16876.1	13661.8
45°	13589.8	13737.9	14472.5	15178.4	15480.9	15353.3	15493.2	15583.8	16225.8	18339.2	14840.9
47.5°	14345.0	14515.7	15417.1	16221.7	16752.6	16834.9	17116.8	17176.5	17643.6	20043.0	16378.1
50°	15818.3	15865.7	16680.6	17411.1	18176.6	18670.4	18991.5	19036.7	19359.9	21905.3	18298.0
52.5°	17672.5	17703.3	18164.2	18654.1	19524.5	20532.8	21283.9	21347.7	21415.6	23720.4	20193.3
55°	19514.2	19510.1	19814.6	20102.7	21098.7	22563.9	24193.6	24232.7	23745.1	25442.7	21642.0
57.5°	20664.5	20775.7	21238.6	21609.0	23000.1	24878.8	27140.5	27284.5	26191.8	26718.6	23074.2
60°	20298.2	20351.7	21378.6	22749.0	25368.6	28169.3	30122.2	30159.2	28031.5	27992.4	24885.1
62.5°	17293.8	17322.6	18935.9	21761.3	26568.3	32437.2	33719.2	33116.2	30146.8	29760.0	27052.0
65°	11853.0	12040.3	13388.1	16880.2	24364.4	35114.4	39287.6	38289.6	33371.5	32307.6	29011.0
67.5°	6980.1	6941.0	7607.7	10180.0	17894.7	33336.5	46331.5	45339.6	37768.9	34013.5	28436.8
70°	4767.9	4741.2	4996.4	6163.1	10101.8	25860.4	48547.8	50550.1	41652.1	32865.2	24473.5
72.5°	3403.6	3418.0	3794.6	4788.5	6342.2	15067.2	41748.8	46488.0	40435.9	28650.9	18602.5
75°	2310.9	2350.0	2889.2	3928.3	5560.2	7665.3	29626.3	35338.7	32926.9	20823.0	10692.4
77.5°	1242.9	1286.1	1922.0	3164.9	5027.2	5325.6	19057.3	24321.2	20683.1	9360.9	3099.1
80°	518.6	543.3	899.2	2300.6	4344.0	4677.4	11212.9	14748.3	8813.6	1845.9	691.4
82.5°	224.3	236.6	374.5	1372.5	3247.2	3948.9	5936.8	7095.3	2671.0	405.4	347.7
85°	43.2	45.3	154.4	726.4	2072.2	2228.6	3848.1	3771.9	1199.7	174.9	253.1
87.5°	0.0	0.0	37.1	228.4	609.1	1214.1	2348.0	2319.2	407.5	84.4	94.6
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°	14618.7	14618.7	14618.7	14618.7	14618.7	14618.7	14618.7	14618.7	14618.7	14618.7	14618.7
2.5°	14503.5	14361.4	14063.0	13694.7	13412.8	13102.0	12855.1	12542.4	12406.5	12412.7	12338.6
5°	14178.2	13886.1	13225.6	12392.1	11750.1	11087.5	10517.5	9949.5	9614.0	9505.0	9402.1
7.5°	13713.2	13250.2	12196.7	10912.5	9826.1	8764.2	7840.3	7027.4	6512.9	6261.9	6169.3
10°	13188.5	12538.3	11013.4	9321.9	7770.3	6334.0	5136.3	4095.0	3679.3	3397.4	3325.4
12.5°	12727.5	11846.8	9856.9	7690.0	5848.3	4115.6	2973.5	2325.3	2043.4	1932.3	1913.8
15°	12293.4	11200.6	8743.6	6212.5	4049.8	2533.2	1891.1	1670.9	1605.1	1586.6	1586.6
17.5°	11883.8	10585.4	7655.1	4757.7	2679.2	1775.9	1566.0	1516.6	1496.1	1493.9	1496.1
20°	11455.8	9970.1	6585.0	3485.9	1870.5	1504.3	1446.6	1419.9	1413.7	1413.7	1413.7
22.5°	11046.3	9354.8	5543.7	2489.9	1500.2	1372.5	1343.8	1325.2	1319.1	1317.0	1312.9
25°	10653.3	8770.3	4527.1	1759.4	1317.0	1257.3	1232.6	1207.9	1189.4	1179.2	1172.9
27.5°	10330.2	8249.8	3580.6	1411.7	1189.4	1138.0	1107.1	1070.1	1024.8	1004.2	996.0
30°	10072.9	7774.4	2759.5	1191.4	1070.1	1018.6	971.3	907.5	841.7	806.6	804.6
32.5°	9871.3	7307.2	2094.9	1053.6	963.0	899.2	831.3	751.1	675.0	635.9	633.8
35°	9772.5	6895.7	1601.0	952.8	868.4	788.2	703.8	615.3	541.2	504.2	500.1
37.5°	9838.4	6547.9	1249.1	868.4	788.2	695.5	596.7	504.2	438.3	405.4	403.4
40°	10079.2	6325.7	1014.5	796.4	720.3	607.1	500.1	413.6	358.1	331.4	329.2
42.5°	10591.5	6243.4	866.3	736.7	654.4	524.7	415.7	341.6	290.2	271.6	267.5
45°	11447.6	6364.8	765.5	679.1	586.5	446.6	343.6	279.8	234.6	220.2	218.2
47.5°	12587.6	6683.8	693.4	623.5	524.7	376.6	286.1	226.4	191.3	177.0	174.9
50°	14056.9	7190.0	633.8	568.0	467.1	319.0	236.6	179.0	148.1	137.9	137.9
52.5°	15655.8	7793.0	580.3	516.5	409.5	265.5	191.3	137.9	117.3	105.0	105.0
55°	16976.9	8319.7	522.7	477.4	339.5	220.2	146.1	105.0	86.4	80.3	80.3
57.5°	18296.0	8881.5	456.8	409.5	271.6	179.0	111.1	78.2	63.8	59.7	59.7
60°	20006.0	9568.8	393.0	333.4	214.0	135.8	82.3	55.5	47.3	45.3	45.3
62.5°	21886.8	9972.1	335.5	267.5	166.7	100.8	59.7	37.1	35.0	35.0	32.9
65°	23037.2	9402.1	281.9	214.0	129.7	76.1	39.1	26.7	30.8	28.8	24.7
67.5°	21569.9	7360.8	230.5	166.7	100.8	57.7	24.7	18.5	32.9	26.7	20.6
70°	17859.7	5152.8	179.0	117.3	80.3	49.4	16.5	12.4	35.0	26.7	16.5
72.5°	13365.5	3448.9	142.0	78.2	59.7	43.2	14.4	6.1	30.8	22.6	14.4
75°	7303.1	1389.0	113.2	49.4	37.1	30.8	10.2	4.1	20.6	16.5	10.2
77.5°	1922.0	366.3	82.3	32.9	20.6	12.4	6.1	2.0	10.2	8.2	4.1
80°	489.7	142.0	53.5	22.6	14.4	6.1	0.0	0.0	2.0	0.0	0.0
82.5°	261.3	59.7	32.9	16.5	8.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	197.6	39.1	18.5	10.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	76.1	12.4	6.1	0.0	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)