

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: McGRAW-EDISON

Report Number: P383362

Luminaire Tested: **GLEON-SA6D-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383362
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: McGRAW-EDISON
Catalog Number: GLEON-SA6D-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 36933.1 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

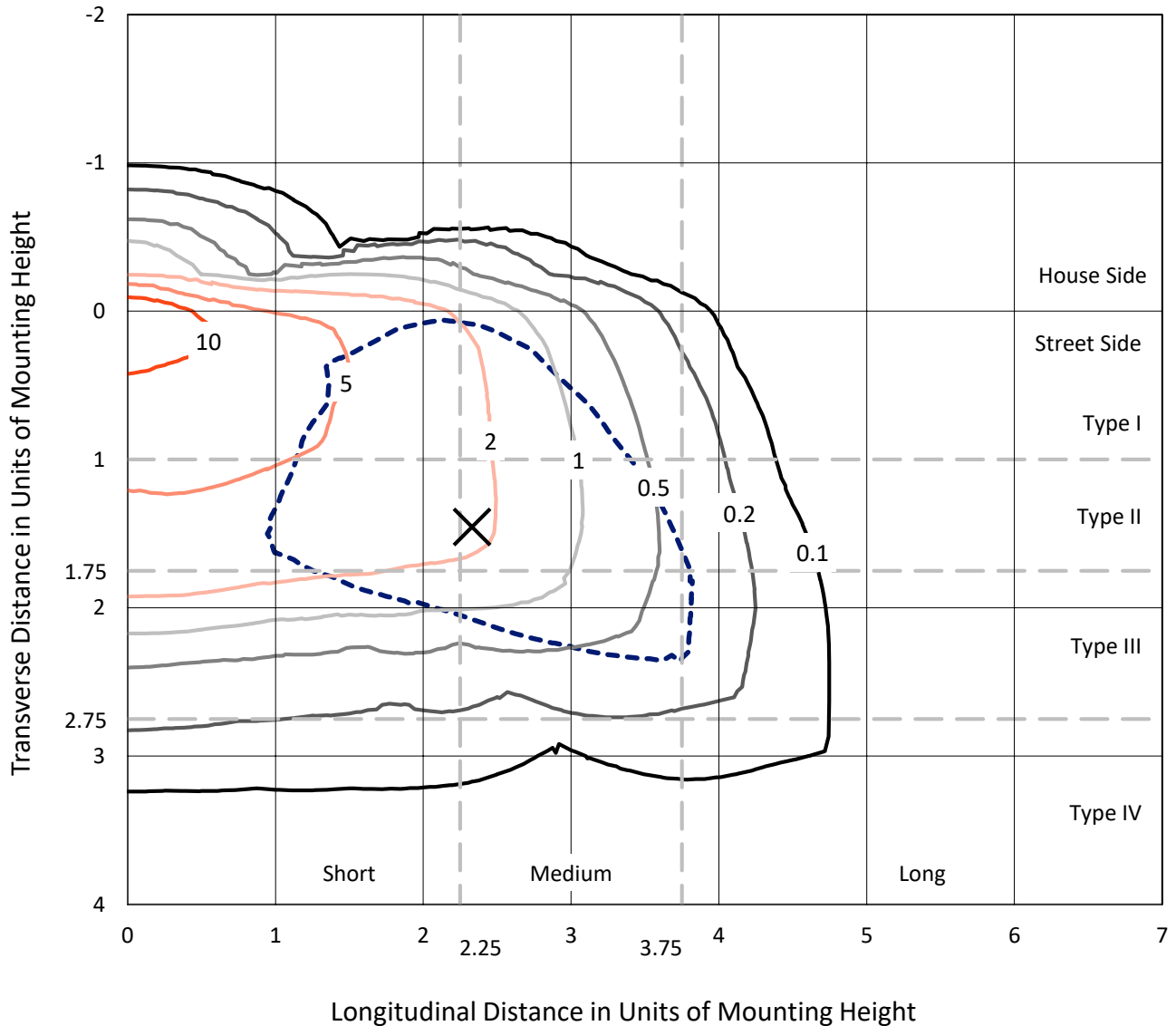
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

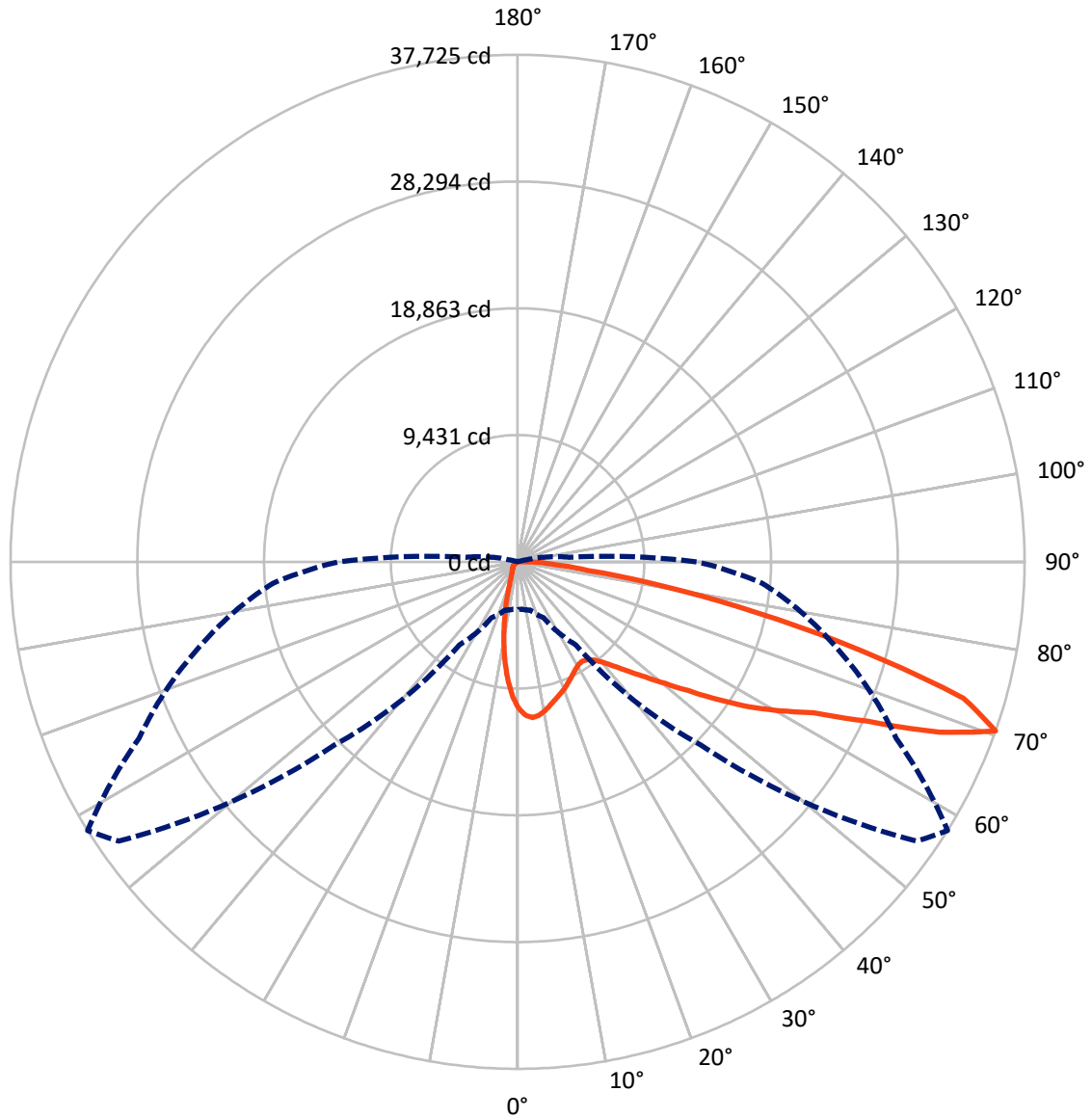
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 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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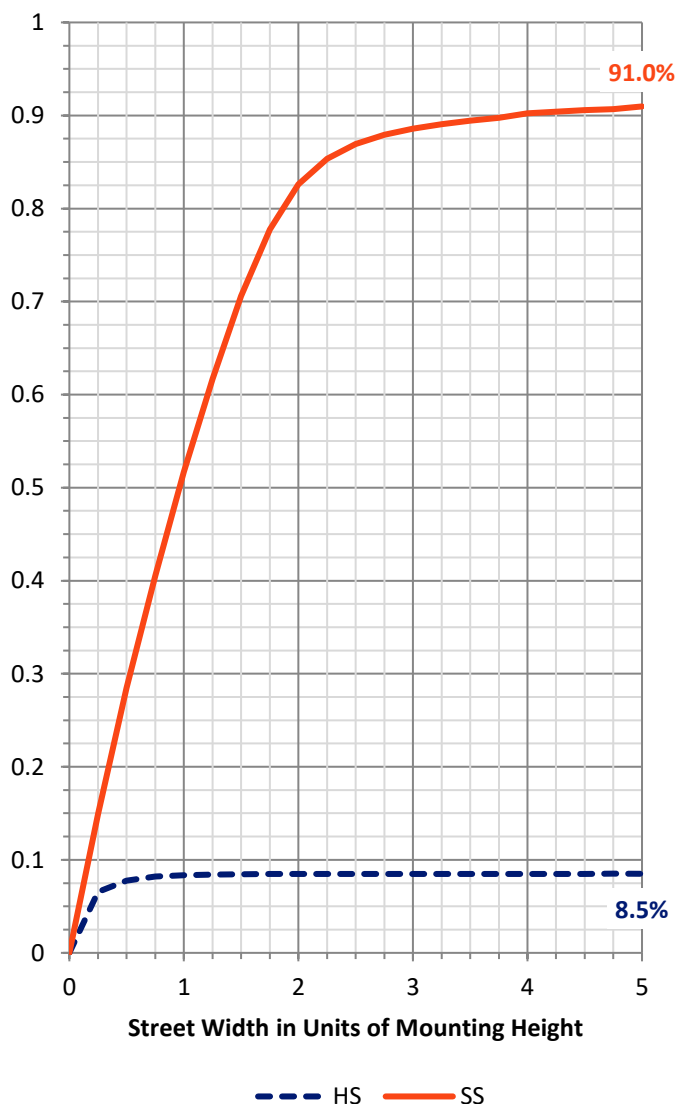
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3160.6	0.0	3160.6
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	33772.4	0.0	33772.4
	% Fixture	91.4	0.0	91.4
Total	Lumens	36933.1	0.0	36933.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	892.1	2.4
10°-20°	1872.4	5.1
20°-30°	2461.6	6.7
30°-40°	3260.1	8.8
40°-50°	4872.8	13.2
50°-60°	7806.0	21.1
60°-70°	9839.4	26.6
70°-80°	5307.3	14.4
80°-90°	621.2	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°	36933.1	100.0
0°-180°	36933.1	100.0

Coefficient of Utilization

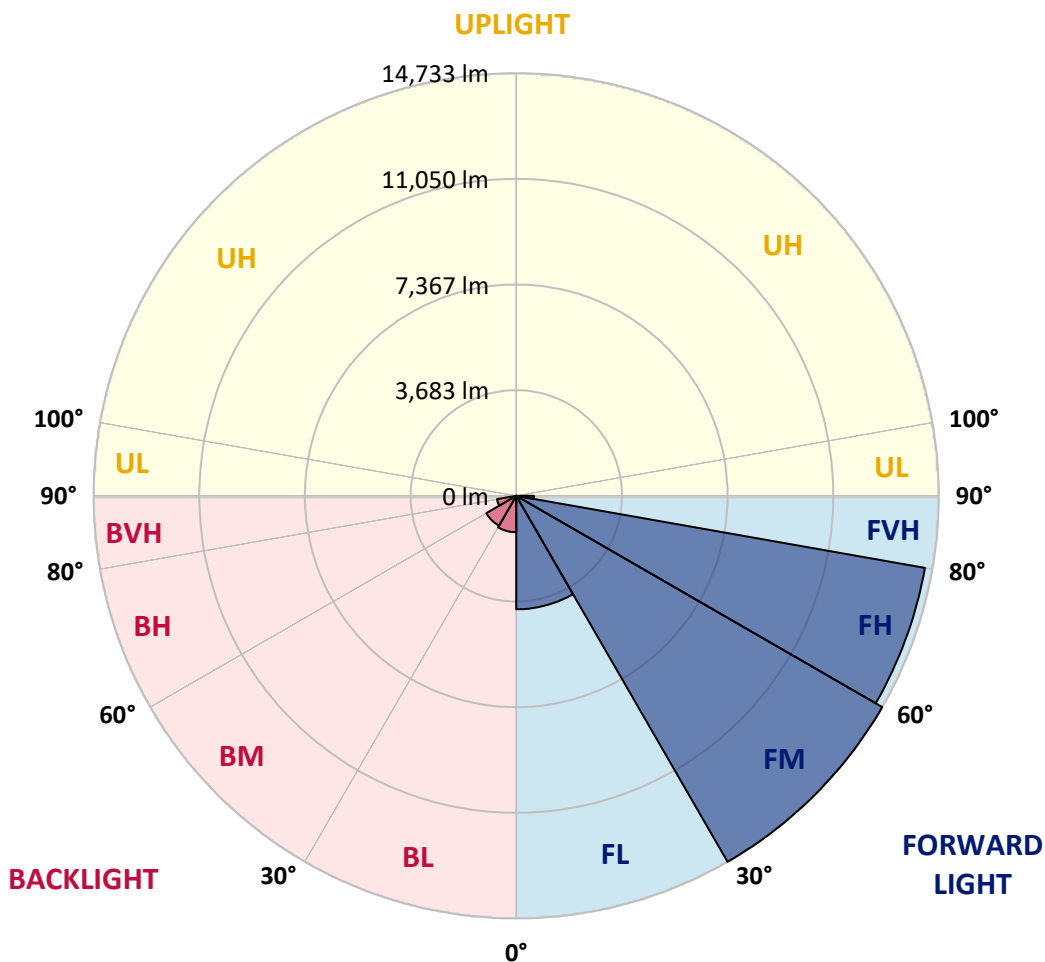


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3956.3	10.7			
FM (30°-60°)	14733.2	39.9			
FH (60°-80°)	14467.1	39.2			G5
FVH (80°-90°)	615.9	1.7			G4/750
BL (0°-30°)	1269.8	3.4	B3/2500		
BM (30°-60°)	1205.7	3.3	B2/2500		
BH (60°-80°)	679.7	1.8	B2/1000		G2/1000
BVH (80°-90°)	5.4	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°	10909.8	10909.8	10909.8	10909.8	10909.8	10909.8	10909.8	10909.8	10909.8	10909.8	10909.8
2.5°	11814.4	11785.2	11774.5	11756.0	11685.4	11616.3	11479.6	11441.2	11355.2	11151.0	10934.4
5°	11823.6	11822.1	11854.3	11846.7	11822.1	11789.9	11691.6	11640.9	11494.9	11203.2	10807.0
7.5°	11253.8	11283.0	11355.2	11413.6	11481.1	11568.7	11581.0	11531.8	11412.0	11097.2	10571.9
10°	10489.0	10535.2	10636.5	10751.6	10928.3	11103.4	11260.0	11253.8	11212.4	10902.2	10289.4
12.5°	9722.7	9776.5	9893.2	10063.7	10314.0	10599.6	10879.2	10917.6	10986.7	10727.1	10028.3
15°	9051.7	9097.7	9212.9	9421.8	9732.0	10115.9	10525.9	10596.5	10774.7	10590.4	9810.3
17.5°	8481.8	8511.0	8595.5	8827.4	9186.7	9652.0	10185.0	10323.2	10588.9	10482.9	9621.4
20°	8084.1	8088.7	8144.0	8306.8	8666.2	9186.7	9831.7	10029.9	10392.3	10390.8	9426.3
22.5°	7887.5	7872.1	7882.9	7976.6	8240.7	8742.9	9478.6	9713.5	10215.7	10312.4	9228.2
25°	7850.7	7838.4	7807.7	7820.0	7979.6	8354.4	9122.3	9394.1	10060.6	10264.8	9056.2
27.5°	7965.8	7978.1	7925.9	7870.6	7882.9	8102.5	8805.9	9120.7	9934.7	10264.8	8934.9
30°	8197.7	8203.9	8165.5	8093.3	7996.6	8031.9	8586.3	8901.1	9871.7	10335.5	8858.1
32.5°	8454.3	8488.0	8483.4	8425.0	8286.9	8144.0	8534.1	8821.3	9867.0	10492.1	8850.4
35°	8772.1	8810.5	8875.0	8862.7	8718.4	8483.4	8712.2	8938.0	9957.7	10750.2	8933.4
37.5°	9110.0	9168.3	9306.5	9372.6	9278.9	9013.2	9111.5	9272.7	10200.4	11167.9	9143.8
40°	9437.0	9503.1	9755.0	10014.5	9943.9	9670.5	9716.6	9845.6	10631.8	11768.3	9543.1
42.5°	9758.1	9856.3	10226.4	10653.4	10737.9	10519.8	10544.4	10647.2	11272.3	12594.5	10195.7
45°	10141.9	10252.5	10800.8	11327.6	11553.3	11458.1	11562.6	11630.1	12109.3	13686.5	11075.7
47.5°	10705.6	10833.1	11505.7	12106.2	12502.4	12563.9	12774.2	12818.7	13167.4	14958.0	12222.9
50°	11805.2	11840.5	12448.6	12993.9	13565.1	13933.7	14173.3	14207.0	14448.2	16347.9	13655.7
52.5°	13188.9	13212.0	13555.9	13921.4	14571.1	15323.6	15884.1	15931.7	15982.4	17702.4	15070.1
55°	14563.3	14560.3	14787.6	15002.6	15745.9	16839.3	18055.6	18084.8	17720.8	18987.8	16151.4
57.5°	15421.9	15504.8	15850.3	16126.8	17164.9	18567.0	20254.8	20362.3	19546.8	19940.0	17220.2
60°	15148.5	15188.4	15954.7	16977.5	18932.5	21022.7	22480.1	22507.7	20919.8	20890.6	18571.6
62.5°	12906.3	12927.8	14131.9	16240.4	19827.9	24207.8	25164.5	24714.6	22498.5	22209.8	20188.8
65°	8845.8	8985.6	9991.5	12597.6	18183.1	26205.7	29320.3	28575.4	24905.0	24111.1	21650.7
67.5°	5209.2	5180.1	5677.6	7597.2	13354.8	24878.9	34577.1	33836.8	28186.9	25384.1	21222.3
70°	3558.3	3538.3	3728.8	4599.5	7538.9	19299.5	36231.1	37725.3	31084.8	24527.2	18264.5
72.5°	2540.1	2550.9	2831.9	3573.7	4733.1	11244.6	31157.0	34693.7	30177.2	21382.0	13883.0
75°	1724.7	1753.8	2156.2	2931.7	4149.6	5720.6	22110.0	26373.1	24573.3	15540.1	7979.6
77.5°	927.5	959.9	1434.4	2361.9	3751.8	3974.4	14222.4	18150.8	15435.7	6986.0	2312.8
80°	387.0	405.4	671.1	1716.9	3242.0	3490.7	8368.2	11006.6	6577.6	1377.6	516.0
82.5°	167.4	176.6	279.5	1024.3	2423.4	2947.0	4430.6	5295.2	1993.4	302.6	259.5
85°	32.2	33.8	115.1	542.1	1546.5	1663.2	2871.9	2815.0	895.3	130.5	188.9
87.5°	0.0	0.0	27.7	170.5	454.6	906.1	1752.2	1730.8	304.1	63.0	70.6
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°	10909.8	10909.8	10909.8	10909.8	10909.8	10909.8	10909.8	10909.8	10909.8	10909.8	10909.8
2.5°	10823.8	10717.9	10495.2	10220.3	10009.9	9778.0	9593.7	9360.3	9258.9	9263.6	9208.3
5°	10581.2	10363.1	9870.1	9248.2	8769.0	8274.6	7849.1	7425.3	7175.0	7093.5	7016.8
7.5°	10234.2	9888.6	9102.3	8144.0	7333.1	6540.7	5851.1	5244.5	4860.6	4673.2	4604.2
10°	9842.5	9357.2	8219.2	6956.9	5799.0	4727.0	3833.2	3056.1	2745.9	2535.5	2481.7
12.5°	9498.5	8841.2	7356.2	5739.1	4364.6	3071.5	2219.1	1735.4	1524.9	1442.0	1428.2
15°	9174.4	8359.0	6525.3	4636.4	3022.3	1890.5	1411.3	1247.0	1197.9	1184.1	1184.1
17.5°	8868.9	7899.8	5712.9	3550.6	1999.6	1325.3	1168.7	1131.8	1116.5	1115.0	1116.5
20°	8549.5	7440.6	4914.4	2601.5	1396.0	1122.6	1079.7	1059.6	1055.1	1055.1	1055.1
22.5°	8243.8	6981.5	4137.3	1858.3	1119.5	1024.3	1002.8	989.0	984.4	982.9	979.8
25°	7950.5	6545.3	3378.6	1313.0	982.9	938.3	919.9	901.5	887.7	879.9	875.4
27.5°	7709.4	6156.8	2672.1	1053.5	887.7	849.3	826.2	798.6	764.8	749.4	743.3
30°	7517.4	5802.0	2059.5	889.2	798.6	760.1	724.8	677.2	628.1	602.0	600.5
32.5°	7367.0	5453.4	1563.4	786.3	718.7	671.1	620.4	560.5	503.7	474.5	473.0
35°	7293.2	5146.2	1194.8	711.1	648.1	588.2	525.2	459.2	403.9	376.3	373.2
37.5°	7342.4	4886.7	932.2	648.1	588.2	519.1	445.4	376.3	327.1	302.6	301.0
40°	7522.1	4720.8	757.2	594.3	537.5	453.0	373.2	308.7	267.3	247.2	245.7
42.5°	7904.5	4659.4	646.6	549.8	488.3	391.6	310.2	255.0	216.6	202.7	199.6
45°	8543.3	4750.1	571.3	506.8	437.6	333.2	256.5	208.9	175.0	164.3	162.7
47.5°	9394.1	4988.1	517.6	465.3	391.6	281.0	213.5	168.9	142.8	132.1	130.5
50°	10490.6	5365.9	473.0	423.9	348.6	238.0	176.6	133.6	110.6	102.9	102.9
52.5°	11683.8	5815.8	433.1	385.5	305.6	198.1	142.8	102.9	87.6	78.3	78.3
55°	12669.8	6209.0	390.0	356.3	253.4	164.3	109.0	78.3	64.5	59.9	59.9
57.5°	13654.3	6628.2	340.9	305.6	202.7	133.6	82.9	58.3	47.6	44.5	44.5
60°	14930.4	7141.2	293.3	248.8	159.8	101.4	61.4	41.5	35.3	33.8	33.8
62.5°	16334.0	7442.1	250.3	199.6	124.4	75.3	44.5	27.7	26.1	26.1	24.6
65°	17192.5	7016.8	210.4	159.8	96.8	56.8	29.2	19.9	23.0	21.5	18.4
67.5°	16097.6	5493.3	172.0	124.4	75.3	43.0	18.4	13.8	24.6	19.9	15.4
70°	13328.7	3845.5	133.6	87.6	59.9	36.9	12.3	9.2	26.1	19.9	12.3
72.5°	9974.5	2573.9	106.0	58.3	44.5	32.2	10.7	4.6	23.0	16.9	10.7
75°	5450.3	1036.6	84.5	36.9	27.7	23.0	7.6	3.1	15.4	12.3	7.6
77.5°	1434.4	273.3	61.4	24.6	15.4	9.2	4.6	1.5	7.6	6.1	3.1
80°	365.5	106.0	40.0	16.9	10.7	4.6	0.0	0.0	1.5	0.0	0.0
82.5°	195.1	44.5	24.6	12.3	6.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	147.5	29.2	13.8	7.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	56.8	9.2	4.6	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)