

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: P650923

Luminaire Tested: **GALN-SA5C-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 23706.1 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 269
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

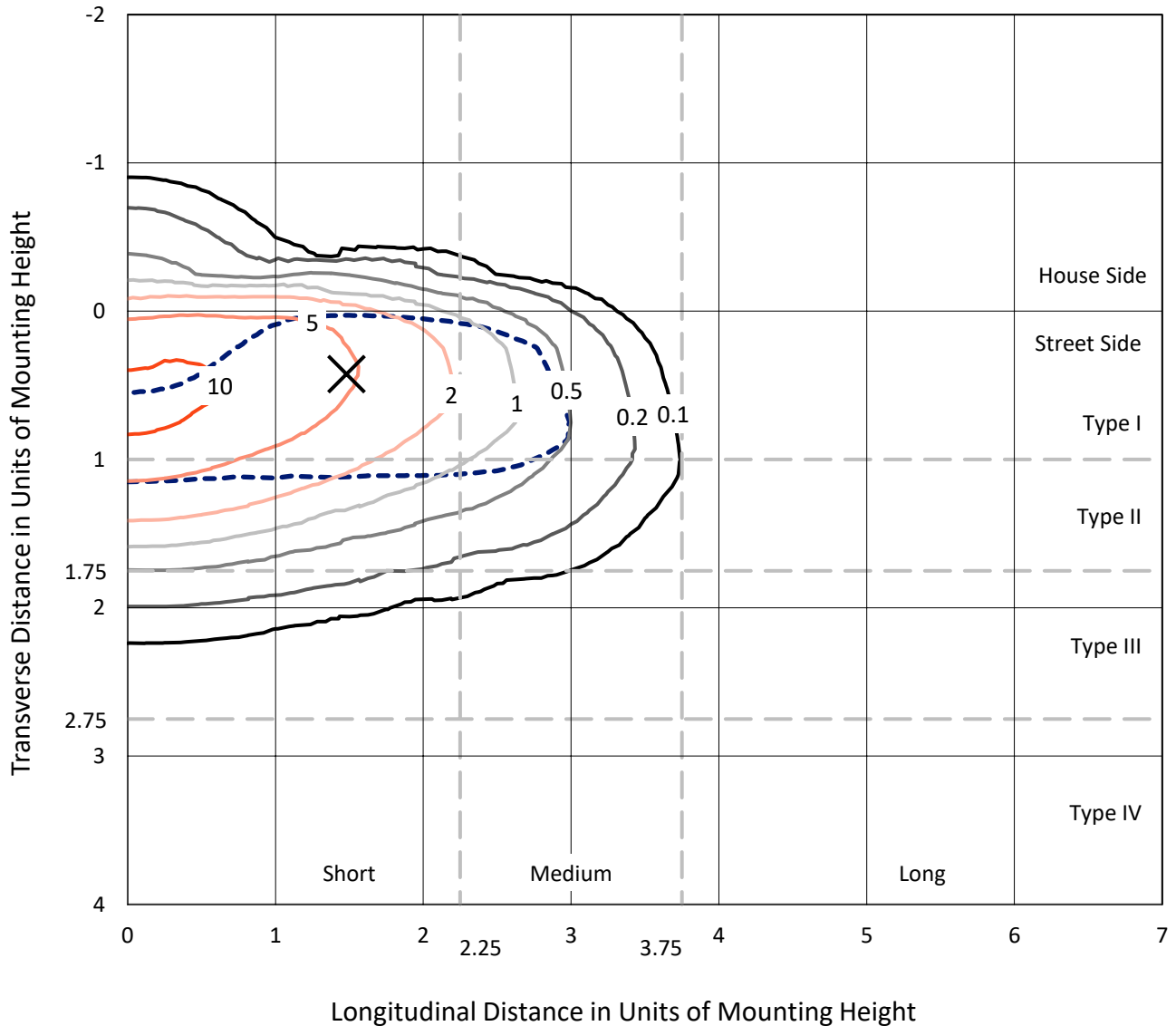




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Iso-Footcandle Lines of Horizontal Illumination

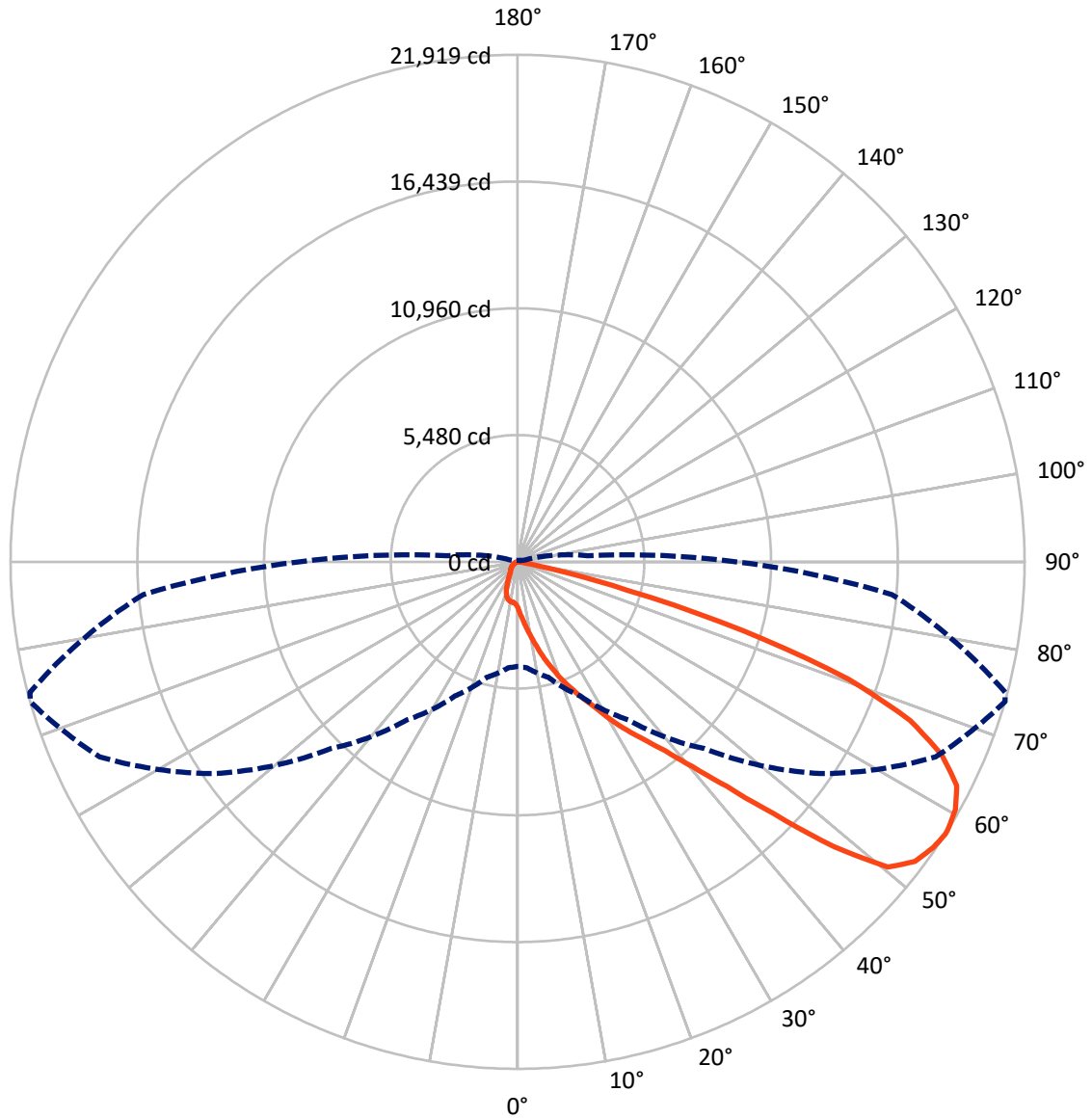
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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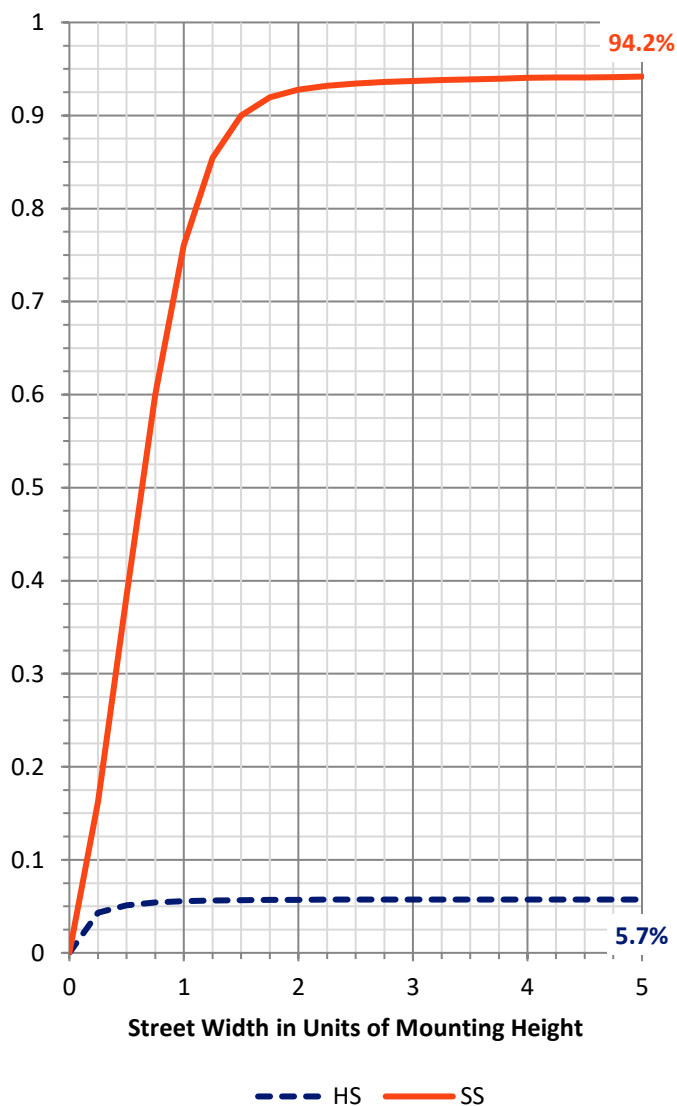
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1367.3	0.0	1367.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	22338.8	0.0	22338.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	23706.1	0.0	23706.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	1.0
10°-20°	944.6	4.0
20°-30°	2021.1	8.5
30°-40°	3714.8	15.7
40°-50°	5694.8	24.0
50°-60°	6024.3	25.4
60°-70°	3934.1	16.6
70°-80°	1074.9	4.5
80°-90°	57.9	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°	23706.1	100.0
0°-180°	23706.1	100.0

Coefficient of Utilization



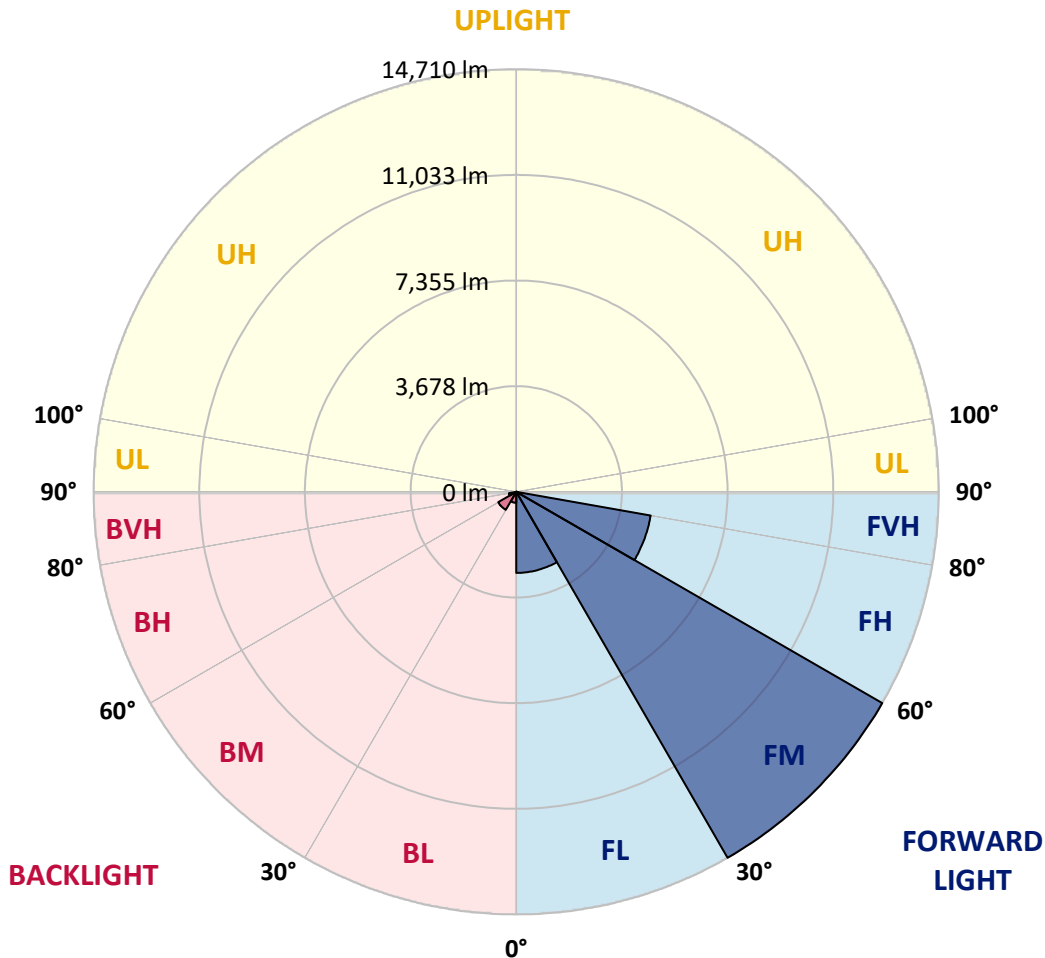
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2823.4	11.9			
FM (30°-60°)	14710.1	62.1			
FH (60°-80°)	4752.3	20.0			G2/5000
FVH (80°-90°)	53.1	0.2			G1/100
BL (0°-30°)	381.9	1.6	B1/500		
BM (30°-60°)	723.9	3.1	B1/1000		
BH (60°-80°)	256.7	1.1	B1/500		G1/500
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1985.3	1985.3	1985.3	1985.3	1985.3	1985.3	1985.3	1985.3	1985.3	1985.3	1985.3
2.5°	2905.2	2879.0	2826.6	2808.6	2731.7	2612.2	2507.4	2366.7	2255.4	2244.0	2109.7
5°	3890.6	3831.6	3807.0	3689.2	3504.3	3330.8	3032.9	2807.0	2546.7	2527.1	2257.1
7.5°	4839.8	4758.0	4733.4	4622.1	4406.1	4132.8	3746.5	3335.7	2923.2	2885.6	2455.1
10°	5527.2	5538.7	5494.5	5420.8	5245.7	4967.5	4491.2	3929.8	3342.2	3294.7	2677.7
12.5°	6019.9	6018.3	6026.4	6024.8	5931.5	5720.4	5219.5	4573.0	3803.8	3710.5	2933.0
15°	6340.7	6345.6	6370.2	6455.3	6465.1	6334.2	5916.8	5188.5	4339.0	4222.7	3209.6
17.5°	6664.8	6699.2	6738.4	6818.7	6890.6	6838.3	6543.7	5830.1	4823.5	4736.7	3505.9
20°	7200.0	7247.5	7224.5	7273.6	7311.3	7316.2	7088.7	6422.5	5411.0	5265.3	3844.7
22.5°	8056.0	8054.3	7995.5	7907.1	7833.4	7830.1	7623.9	7031.4	5944.6	5803.8	4185.2
25°	9137.9	9142.8	9028.2	8776.2	8592.8	8368.6	8131.3	7565.0	6515.8	6342.3	4543.6
27.5°	10378.5	10347.4	10173.9	9826.9	9463.6	9080.6	8738.5	8185.3	7121.4	6977.4	4954.4
30°	11493.1	11481.7	11278.7	10854.8	10376.8	9992.3	9496.3	8962.7	7905.4	7728.6	5414.3
32.5°	12530.8	12547.2	12265.6	11827.0	11365.4	10921.9	10398.1	9705.8	8674.7	8424.3	5915.2
35°	13341.0	13357.4	13066.0	12701.0	12226.4	11858.1	11358.9	10498.0	9434.1	9223.0	6491.3
37.5°	13773.1	13794.3	13625.8	13350.8	13054.6	12869.7	12404.8	11517.7	10357.3	10229.6	7172.1
40°	13855.0	13879.5	13805.9	13732.2	13715.8	13848.4	13712.5	12719.0	11637.2	11437.5	8187.0
42.5°	13609.4	13642.2	13674.9	13838.6	14172.4	14658.5	15131.6	14349.2	13285.4	13016.9	9427.6
45°	12964.5	12961.2	13090.6	13514.5	14262.5	15300.1	16614.5	16390.2	15530.9	15211.8	11180.5
47.5°	11861.4	11845.1	12124.9	12728.9	13894.2	15418.1	17824.0	18868.3	18396.9	18102.3	13064.4
50°	10180.5	10260.7	10701.0	11543.9	12979.3	15061.2	18197.2	20493.5	20748.8	20436.2	14586.6
52.5°	8211.5	8208.2	8898.9	10043.0	11624.0	14275.6	17936.9	20788.1	21513.2	21274.3	15336.1
55°	6077.2	6119.7	6838.3	7992.2	9864.6	12841.8	17087.4	20485.3	21804.5	21636.0	15830.5
57°	4520.6	4596.0	5172.1	6393.1	8332.6	11422.7	15956.5	19943.6	21919.2	21827.5	16241.3
57.5°	4219.5	4222.7	4784.2	5893.9	7884.1	10877.7	15632.4	19717.7	21915.9	21865.1	16308.4
60°	2597.5	2679.3	3067.2	3983.8	5771.1	8489.7	13460.5	18419.8	21745.7	21819.2	16594.9
62.5°	1554.9	1589.2	1841.3	2401.1	3720.3	6196.7	11015.2	16758.5	21302.0	21526.3	16575.2
65°	1000.0	1008.2	1122.8	1453.4	2325.8	4188.4	8488.1	14563.7	20154.7	20567.2	15927.0
67.5°	772.5	785.7	831.5	954.2	1348.6	2609.0	6003.6	12221.5	18298.6	18830.6	14355.8
70°	685.8	692.3	708.7	748.0	892.0	1473.1	3735.0	9547.0	15174.2	15324.7	11234.5
72.5°	559.8	577.8	628.5	641.6	707.0	919.8	2078.6	6407.8	10195.2	10232.9	6285.0
75°	433.7	437.0	512.3	549.9	595.8	633.4	928.0	3230.9	4897.1	4635.3	2422.3
77.5°	324.0	338.8	373.2	420.7	486.1	453.4	415.7	1217.8	1520.5	1492.7	703.8
80°	207.9	216.1	260.2	315.9	378.1	296.3	234.1	356.8	333.9	343.7	168.6
82.5°	104.8	106.4	166.9	256.9	240.6	148.9	147.3	145.7	124.4	122.8	78.5
85°	11.4	24.6	108.0	147.3	108.0	49.1	68.7	67.1	65.4	67.1	45.8
87.5°	1.6	1.6	18.0	21.3	14.7	16.4	19.7	21.3	26.2	24.6	19.7
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°	1985.3	1985.3	1985.3	1985.3	1985.3	1985.3	1985.3	1985.3	1985.3	1985.3	1985.3
2.5°	2044.3	1978.8	1857.7	1741.5	1654.8	1599.1	1527.1	1500.8	1463.3	1458.3	1440.3
5°	2132.7	2008.3	1797.1	1630.2	1496.0	1394.5	1306.1	1232.5	1173.5	1160.4	1167.0
7.5°	2258.7	2073.7	1779.1	1551.6	1365.0	1191.5	1050.7	964.0	901.8	878.9	882.2
10°	2401.1	2160.4	1775.9	1468.1	1183.4	970.6	816.7	739.8	703.8	690.7	676.0
12.5°	2569.7	2260.4	1767.7	1338.9	983.7	774.1	664.5	618.7	584.3	574.5	574.5
15°	2759.5	2366.7	1728.4	1178.4	798.7	640.0	566.3	530.3	518.8	509.1	509.1
17.5°	2957.5	2471.4	1646.6	980.4	662.9	548.3	502.5	481.2	464.8	453.4	453.4
20°	3183.4	2574.6	1515.7	805.3	559.8	489.4	453.4	428.8	415.7	406.0	402.7
22.5°	3397.9	2658.1	1348.6	661.3	487.8	440.3	407.5	381.4	368.3	363.4	363.4
25°	3620.4	2708.8	1147.4	546.6	445.2	399.4	363.4	342.1	330.6	327.3	325.7
27.5°	3836.5	2738.2	970.6	477.9	406.0	361.7	327.3	311.0	299.5	296.3	297.9
30°	4098.4	2743.2	798.7	428.8	371.6	325.7	294.6	279.9	273.3	270.0	268.4
32.5°	4363.5	2736.6	671.0	399.4	338.8	294.6	268.4	256.9	252.0	247.2	247.2
35°	4661.4	2702.2	571.2	369.9	307.7	268.4	245.5	235.6	229.2	224.2	222.6
37.5°	5031.3	2684.2	513.9	337.2	279.9	243.9	222.6	212.8	207.9	201.3	199.7
40°	5614.0	2764.5	495.9	307.7	252.0	220.9	201.3	189.9	183.3	176.8	175.1
42.5°	6340.7	2905.2	466.5	278.2	227.5	199.7	180.1	166.9	155.5	147.3	144.1
45°	7281.8	3090.2	420.7	247.2	206.2	176.8	158.8	142.4	127.7	121.1	119.5
47.5°	8268.8	3268.5	379.7	222.6	183.3	157.1	137.5	119.5	106.4	101.5	99.8
50°	8874.4	3304.5	353.6	194.8	160.4	135.8	116.2	99.8	91.7	86.7	86.7
52.5°	9151.0	3247.3	317.6	170.2	139.1	119.5	99.8	86.7	81.8	78.5	77.0
55°	9344.1	3158.9	270.0	147.3	119.5	101.5	88.4	78.5	72.0	68.7	67.1
57°	9457.0	3039.4	234.1	129.3	103.1	88.4	78.5	70.4	63.8	57.3	57.3
57.5°	9461.9	2993.6	224.2	127.7	98.2	85.1	77.0	68.7	60.6	54.0	52.4
60°	9316.3	2679.3	180.1	108.0	78.5	72.0	63.8	54.0	42.6	36.0	34.4
62.5°	8848.2	2280.0	148.9	91.7	63.8	55.7	45.8	41.0	29.4	21.3	21.3
65°	8139.5	1849.5	127.7	73.7	52.4	41.0	31.1	29.4	18.0	9.8	8.2
67.5°	7114.9	1440.3	108.0	60.6	44.2	29.4	21.3	19.7	9.8	3.3	0.0
70°	5420.8	982.0	90.0	49.1	32.7	21.3	14.7	11.4	6.6	1.6	0.0
72.5°	3124.5	540.1	75.3	37.7	24.6	16.4	11.4	6.6	6.6	0.0	0.0
75°	1116.3	232.5	57.3	27.8	19.7	13.1	8.2	3.3	4.9	1.6	0.0
77.5°	355.2	124.4	37.7	21.3	16.4	9.8	6.6	3.3	3.3	1.6	0.0
80°	104.8	65.4	22.9	18.0	11.4	8.2	4.9	1.6	3.3	1.6	0.0
82.5°	57.3	32.7	18.0	13.1	11.4	6.6	4.9	1.6	1.6	1.6	0.0
85°	29.4	19.7	14.7	13.1	11.4	6.6	4.9	1.6	0.0	1.6	1.6
87.5°	16.4	14.7	14.7	13.1	11.4	8.2	4.9	1.6	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)