

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: P647099

Luminaire Tested: **GALN-SA8C-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36419.7 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

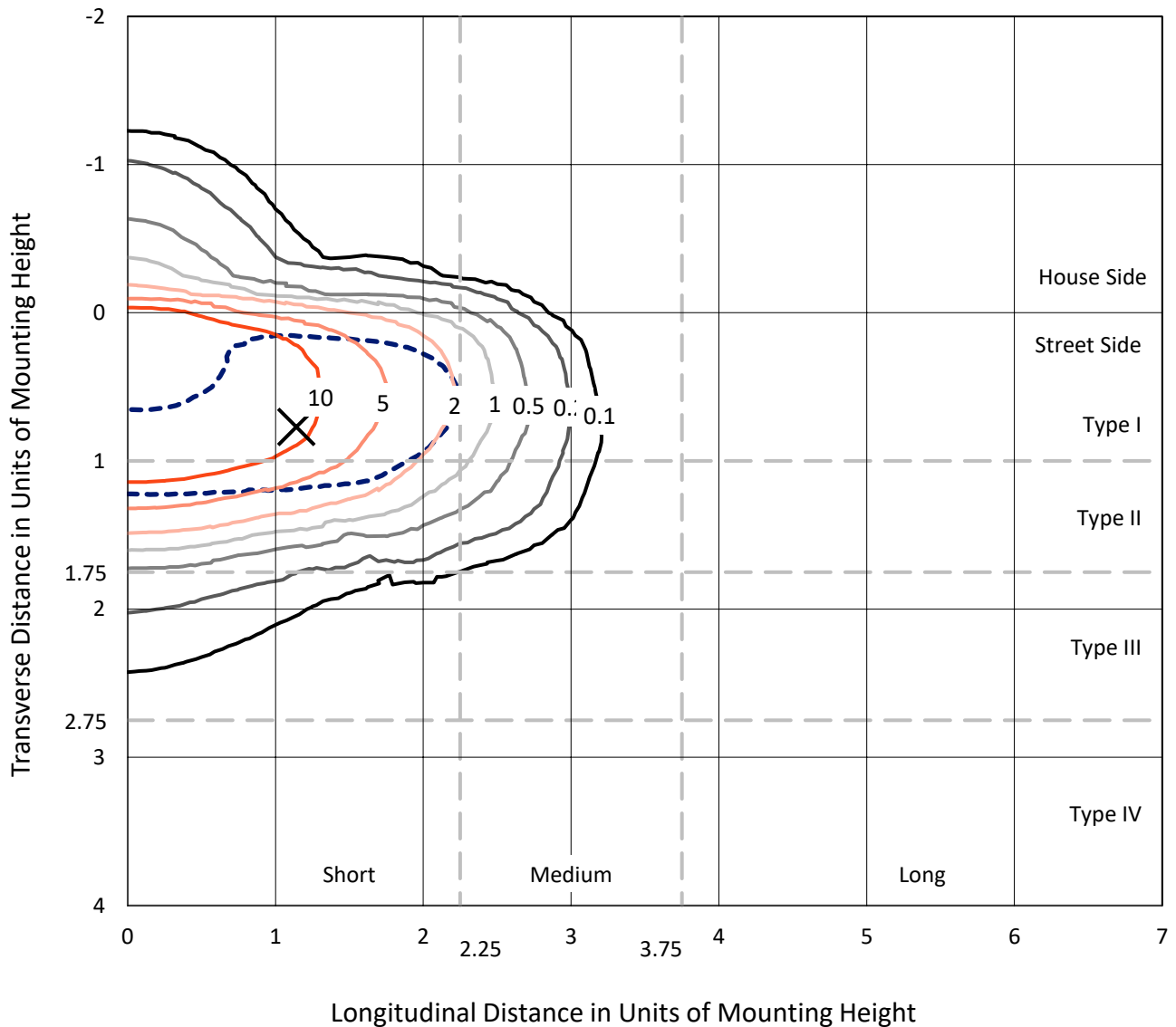
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

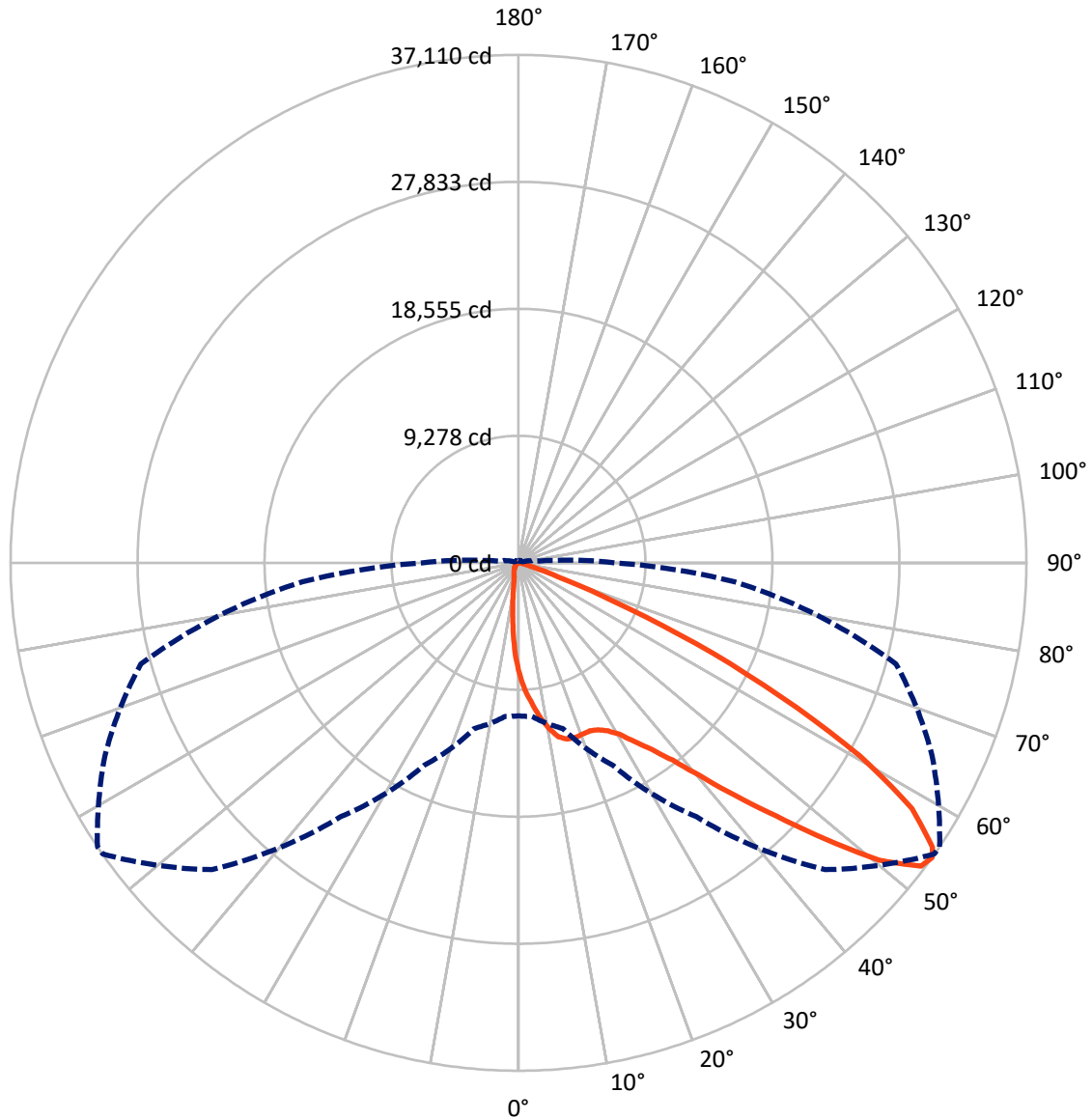
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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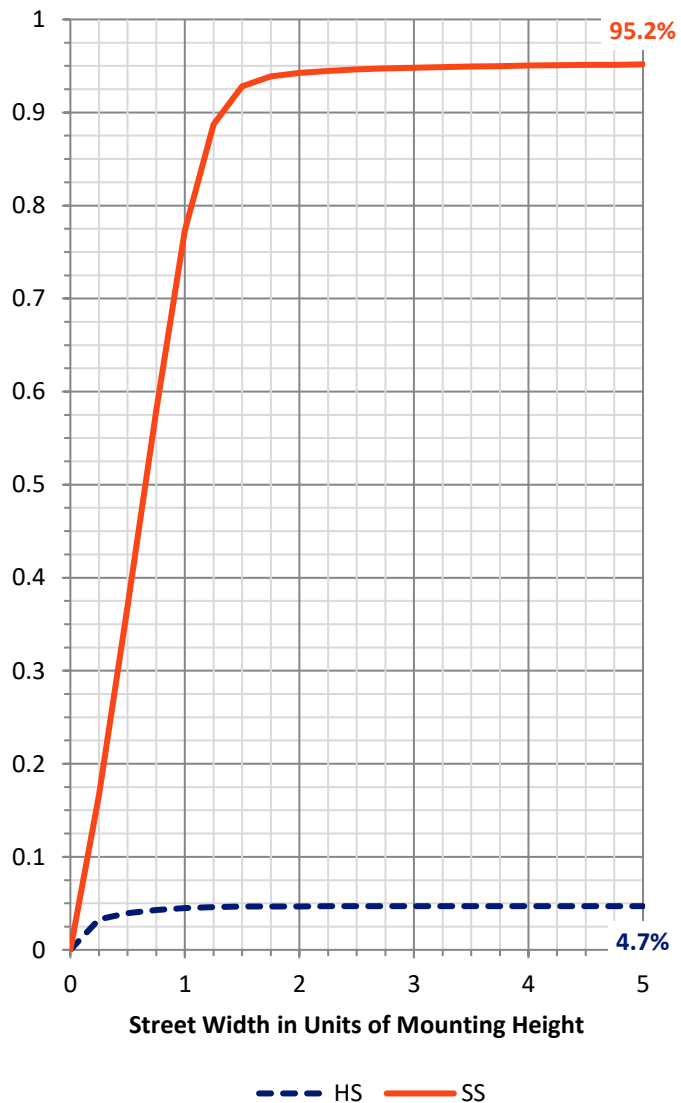
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1722.2	0.0	1722.2
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	34697.5	0.0	34697.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	36419.7	0.0	36419.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.0	2.0
10°-20°	1932.9	5.3
20°-30°	3347.6	9.2
30°-40°	5778.5	15.9
40°-50°	9835.2	27.0
50°-60°	9733.2	26.7
60°-70°	4442.4	12.2
70°-80°	570.5	1.6
80°-90°	64.3	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°	36419.7	100.0
0°-180°	36419.7	100.0

Coefficient of Utilization

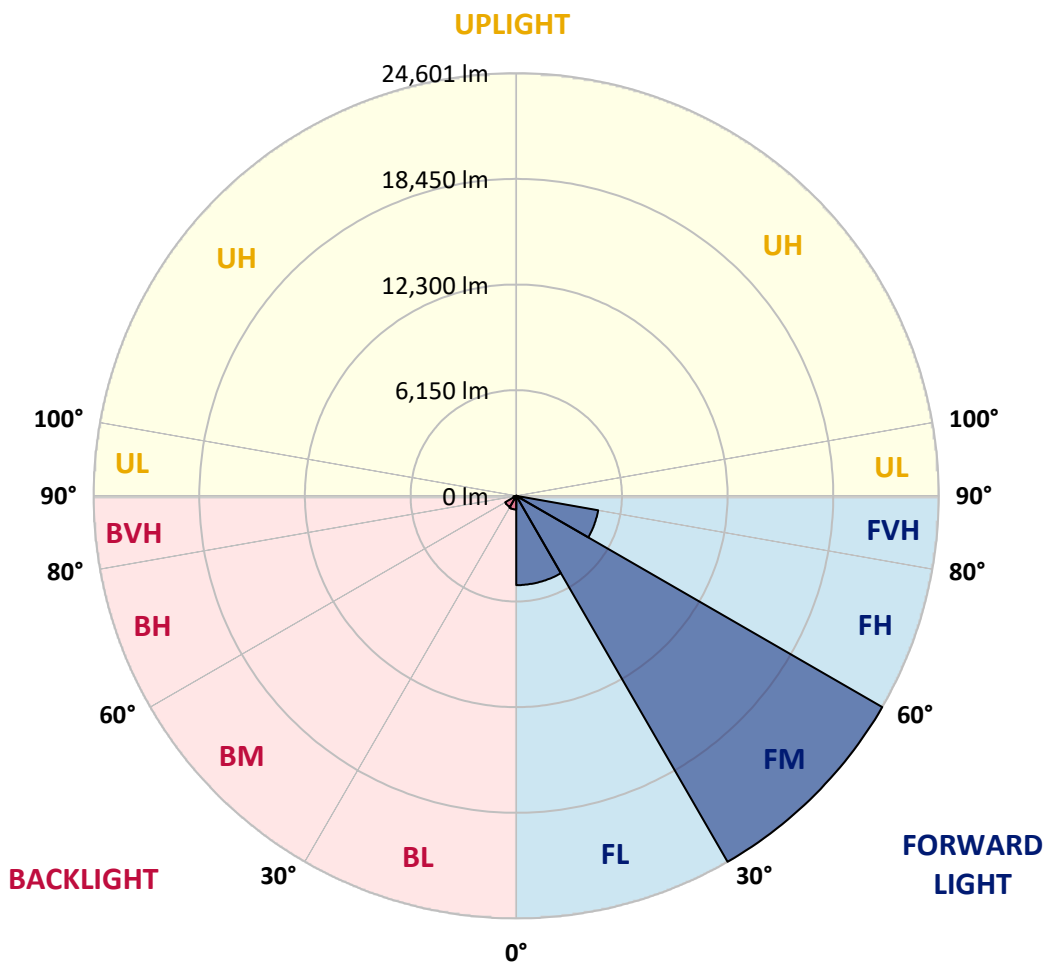


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5199.0	14.3			
FM (30°-60°)	24600.5	67.5			
FH (60°-80°)	4840.5	13.3			G2/5000
FVH (80°-90°)	57.4	0.2			G1/100
BL (0°-30°)	796.5	2.2	B2/1000		
BM (30°-60°)	746.4	2.0	B1/1000		
BH (60°-80°)	172.5	0.5	B1/500		G1/500
BVH (80°-90°)	6.9	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8091.4	8091.4	8091.4	8091.4	8091.4	8091.4	8091.4	8091.4	8091.4	8091.4	8091.4
2.5°	10283.2	10212.0	10113.6	10037.4	9858.1	9600.1	9327.3	9327.3	9064.4	8698.3	8324.9
5°	11860.6	11814.0	11718.1	11521.6	11320.1	10958.9	10410.9	10315.2	9845.8	9182.4	8484.6
7.5°	12502.0	12524.1	12529.0	12477.4	12381.6	12025.3	11482.3	11415.9	10666.5	9777.0	8693.4
10°	11887.7	11995.8	12101.5	12315.3	12617.5	12703.5	12396.3	12327.6	11590.4	10379.0	8919.5
12.5°	10973.7	11032.6	11091.6	11428.2	12035.1	12730.5	13052.4	13049.9	12425.8	10978.6	9207.0
15°	10548.6	10600.2	10605.1	10755.0	11280.8	12293.1	13332.5	13369.3	13241.6	11718.1	9516.6
17.5°	10637.1	10678.8	10644.4	10681.2	10956.4	11811.6	13300.6	13423.4	13902.6	12428.2	9796.7
20°	11214.4	11295.6	11162.8	11059.6	11143.2	11683.8	13192.5	13364.5	14369.5	13121.2	10052.2
22.5°	12251.4	12295.6	12128.5	11845.9	11698.5	11951.6	13162.9	13332.5	14767.5	13688.8	10199.7
25°	13403.8	13389.1	13204.7	12887.8	12578.2	12492.1	13357.1	13509.4	15096.8	14199.9	10243.9
27.5°	14556.2	14600.4	14290.8	13897.6	13526.6	13303.0	13792.0	13905.1	15467.8	14782.3	10297.9
30°	15895.3	15824.0	15519.4	15069.7	14644.6	14332.6	14492.3	14524.3	15978.8	15553.7	10440.4
32.5°	17637.5	17440.9	17099.3	16313.0	16008.4	15480.1	15519.4	15558.7	16600.5	16318.0	10612.5
35°	20001.3	19991.4	19323.0	18264.0	17522.0	16865.9	16693.9	16725.8	17541.6	17453.1	10993.3
37.5°	22846.6	22885.9	22124.2	21057.8	19691.6	18649.8	18296.0	18300.9	18971.7	19020.8	11573.2
40°	25163.7	25266.9	24812.3	24092.4	22743.4	21114.3	20519.7	20465.7	20981.7	20920.2	12401.2
42.5°	26161.3	26257.1	26426.7	26677.3	25935.2	24591.2	23188.2	23261.8	23419.1	22989.1	13330.0
45°	25672.3	25824.7	26490.5	28038.6	28736.4	28284.3	26611.0	26353.0	25687.1	25237.4	14263.8
47.5°	23635.3	24006.4	25119.5	27697.1	30139.5	31667.8	30473.6	30132.0	27957.5	26878.8	14858.4
50°	20286.3	20308.4	21858.9	25153.9	29412.1	33803.0	34417.3	34161.8	30073.1	27800.3	15158.2
52.5°	14706.1	15190.1	16610.3	20426.3	26262.1	33478.7	36931.0	36825.4	32255.1	28272.0	15590.6
54°	11180.1	11273.4	12536.4	16322.9	22642.6	31697.2	37085.8	37110.4	33338.7	28557.0	15846.2
55°	9165.2	8941.5	10268.4	13905.1	20173.2	30122.2	36579.6	36697.6	33825.2	28704.5	16035.4
57.5°	4344.2	4346.7	5361.5	7334.6	12634.6	23389.6	33486.1	33903.8	33879.2	28957.5	16617.8
60°	2199.1	2213.9	2437.5	3385.9	6241.1	15548.9	27687.2	28682.4	31272.2	28994.4	16809.4
62.5°	1538.2	1521.0	1484.1	1629.1	2626.7	7902.2	20613.0	21478.0	26569.2	27591.4	16200.0
65°	1317.0	1280.2	1177.0	1154.8	1326.9	3147.6	12838.6	14249.0	20286.3	23890.9	14465.3
67.5°	1125.4	1110.6	1017.3	960.7	938.7	1371.1	6624.5	7366.5	13865.7	17173.1	10956.4
70°	955.8	948.4	891.9	820.7	759.3	820.7	2457.1	3044.4	7727.7	9246.3	5169.8
72.5°	776.4	783.9	793.6	702.7	638.8	582.3	1049.2	1221.2	3233.6	3304.9	1808.5
75°	680.7	673.2	673.2	611.8	533.2	432.5	577.5	621.6	990.3	919.0	420.2
77.5°	479.1	462.0	540.6	503.7	444.7	307.2	329.3	348.9	410.4	351.4	196.6
80°	331.7	331.7	346.5	452.1	400.5	223.6	201.5	216.3	243.3	208.8	113.1
82.5°	186.7	191.7	226.1	240.8	233.4	149.9	132.7	135.1	162.2	142.5	71.3
85°	22.1	36.9	130.2	127.8	95.8	66.3	73.7	76.2	100.8	88.5	41.7
87.5°	2.4	4.9	27.0	34.4	24.6	27.0	27.0	27.0	34.4	39.3	29.5
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°	8091.4	8091.4	8091.4	8091.4	8091.4	8091.4	8091.4	8091.4	8091.4	8091.4	8091.4
2.5°	8123.3	7936.6	7491.8	6975.8	6646.6	6110.9	5658.8	5332.0	5251.0	5093.6	5140.4
5°	8113.5	7725.3	6818.6	5860.3	4838.2	4076.5	3508.8	3061.6	2865.1	2734.8	2643.9
7.5°	8118.5	7511.6	6056.9	4531.0	3309.8	2562.8	2037.0	1764.3	1582.4	1506.3	1516.0
10°	8133.2	7270.7	5172.3	3356.5	2233.6	1656.1	1334.2	1204.0	1142.6	1132.8	1130.3
12.5°	8167.6	7007.8	4327.0	2491.6	1562.7	1204.0	1081.2	1036.9	1017.3	1017.3	1009.9
15°	8204.4	6717.8	3624.3	1852.7	1204.0	1034.5	978.0	955.8	943.5	943.5	941.1
17.5°	8204.4	6383.7	2968.3	1437.4	1036.9	951.0	906.7	877.2	867.4	867.4	864.9
20°	8152.8	5995.4	2385.9	1157.4	941.1	872.3	828.0	796.2	783.9	778.9	776.4
22.5°	7973.4	5477.0	1899.4	995.1	862.5	803.5	747.0	710.1	700.3	695.4	697.8
25°	7654.1	4892.2	1503.8	874.8	791.2	720.0	670.8	643.8	633.9	633.9	636.4
27.5°	7324.8	4280.3	1191.7	783.9	705.2	641.4	602.0	584.8	582.3	589.8	592.2
30°	7020.1	3666.1	965.7	710.1	629.1	575.0	547.9	543.0	543.0	545.5	547.9
32.5°	6681.0	3127.9	808.4	646.2	567.6	520.9	506.2	506.2	511.1	511.1	516.0
35°	6467.2	2666.0	710.1	584.8	520.9	481.6	471.8	474.3	481.6	491.4	496.3
37.5°	6351.8	2297.4	646.2	535.7	476.7	449.7	439.8	444.7	462.0	479.1	481.6
40°	6361.6	2019.7	594.6	493.9	442.3	412.8	405.4	420.2	437.4	454.6	457.0
42.5°	6469.7	1813.3	545.5	444.7	412.8	371.1	368.6	383.3	390.7	407.9	410.4
45°	6597.5	1663.5	493.9	393.1	358.8	321.9	324.3	336.6	346.5	373.5	378.4
47.5°	6636.8	1560.3	434.9	334.2	294.9	282.6	285.0	292.4	312.0	336.6	339.1
50°	6681.0	1496.4	378.4	282.6	250.6	248.2	250.6	255.6	267.9	277.7	275.2
52.5°	6870.2	1494.0	331.7	245.7	213.8	218.7	221.1	218.7	208.8	194.1	189.2
54°	7047.1	1501.3	309.6	228.5	196.6	204.0	201.5	189.2	164.7	149.9	142.5
55°	7189.7	1508.7	297.3	216.3	186.7	189.2	191.7	167.1	135.1	120.4	115.5
57.5°	7469.7	1491.5	267.9	189.2	164.7	154.8	152.4	110.6	73.7	63.9	59.0
60°	7329.7	1346.5	243.3	162.2	140.1	125.3	103.2	61.5	36.9	27.0	27.0
62.5°	6779.3	1142.6	216.3	132.7	115.5	95.8	54.0	34.4	17.2	9.9	7.4
65°	6064.3	960.7	194.1	105.6	90.9	61.5	29.5	22.1	7.4	0.0	0.0
67.5°	4508.9	712.6	164.7	83.5	68.8	39.3	19.7	12.3	2.4	0.0	0.0
70°	2088.6	434.9	140.1	63.9	49.2	29.5	14.7	7.4	0.0	0.0	0.0
72.5°	599.5	272.7	115.5	46.7	34.4	24.6	12.3	4.9	2.4	0.0	0.0
75°	208.8	218.7	86.0	34.4	27.0	17.2	9.9	4.9	2.4	0.0	0.0
77.5°	125.3	176.9	54.0	29.5	22.1	14.7	9.9	4.9	2.4	2.4	0.0
80°	71.3	117.9	34.4	24.6	19.7	12.3	7.4	4.9	2.4	2.4	0.0
82.5°	39.3	56.5	27.0	22.1	17.2	12.3	7.4	4.9	2.4	2.4	2.4
85°	31.9	29.5	22.1	19.7	14.7	9.9	7.4	2.4	0.0	0.0	0.0
87.5°	24.6	19.7	19.7	19.7	14.7	9.9	7.4	2.4	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)