

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: P651072

Luminaire Tested: **GALN-SA8C-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39273 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

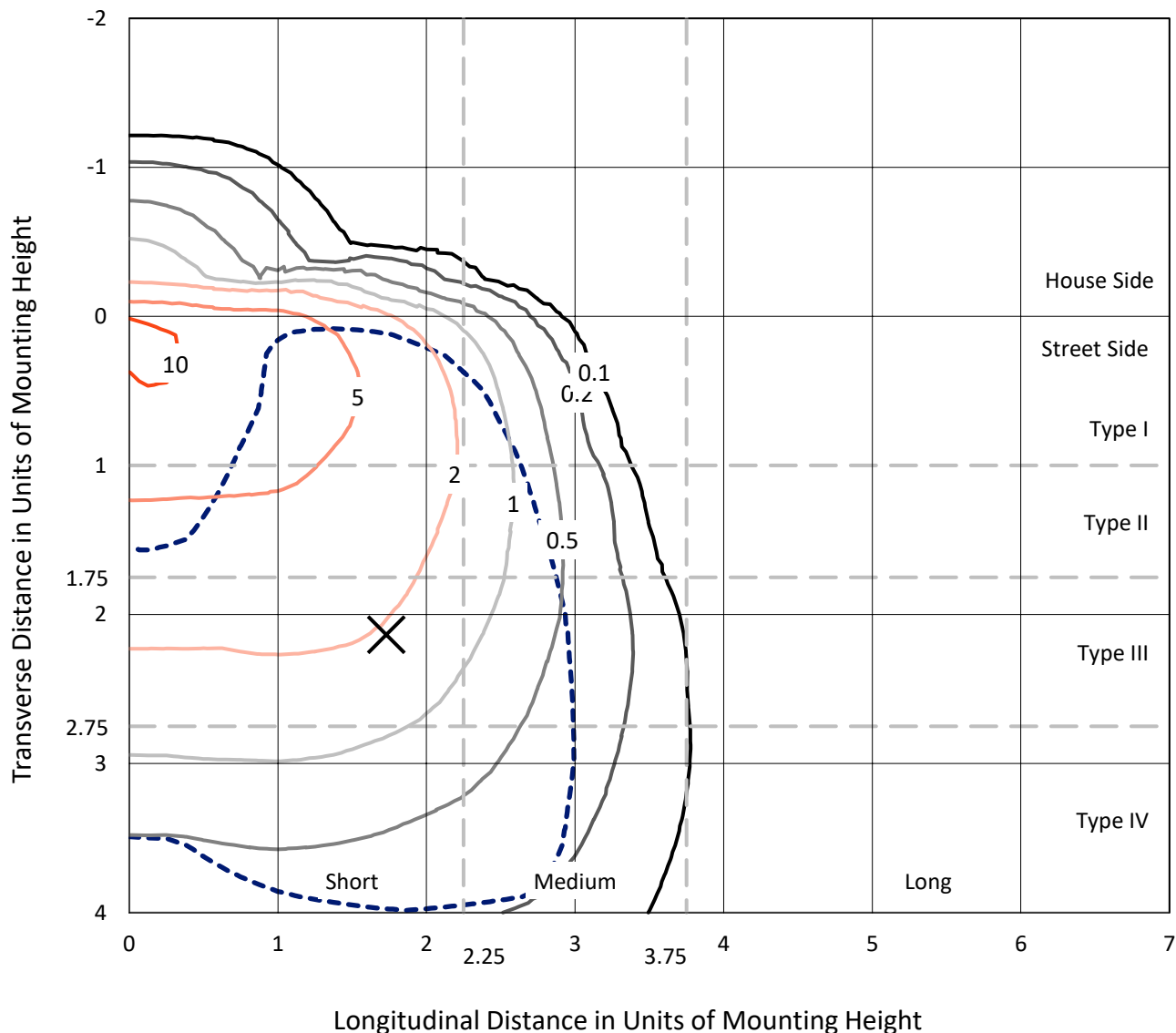
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

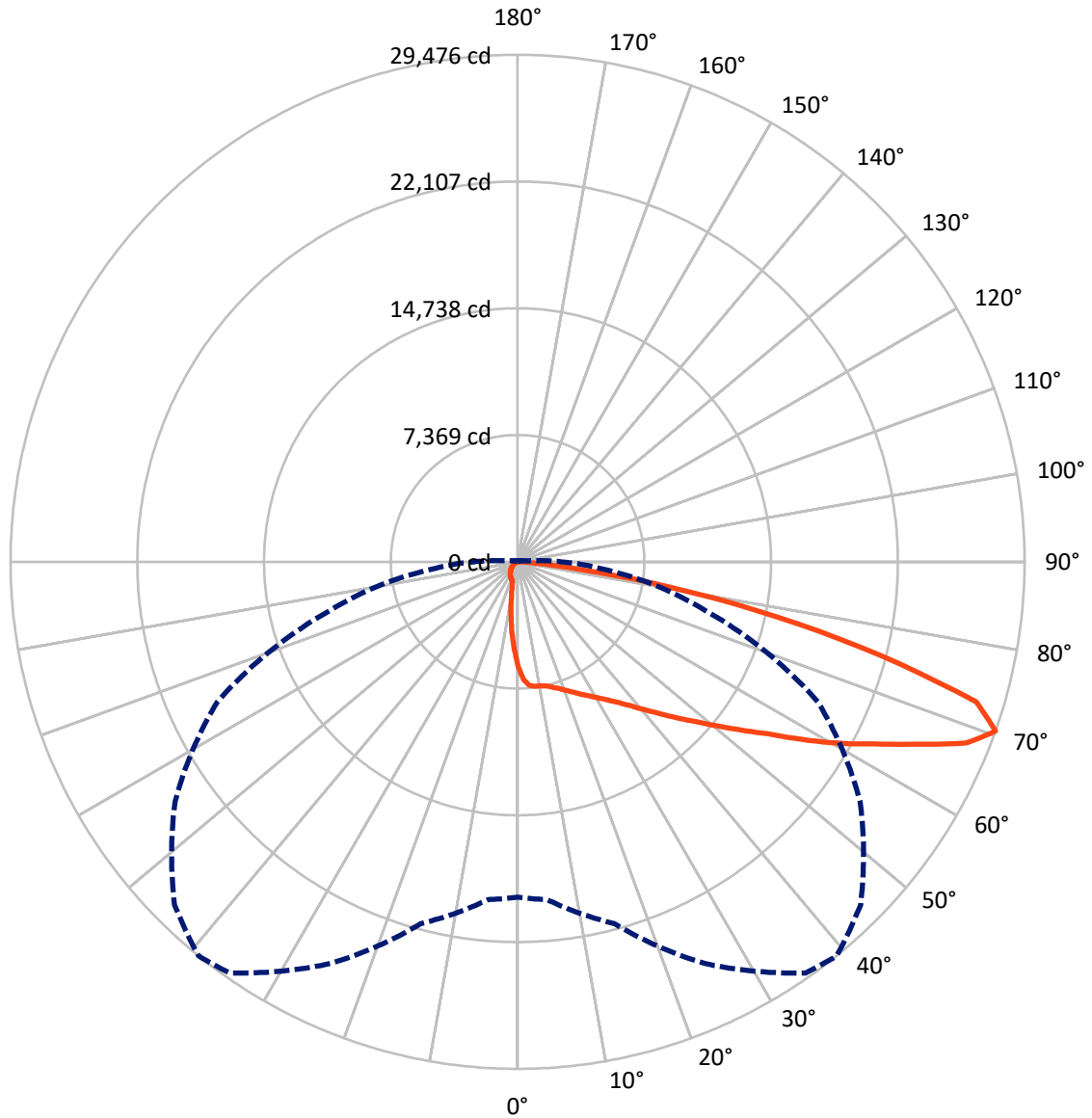
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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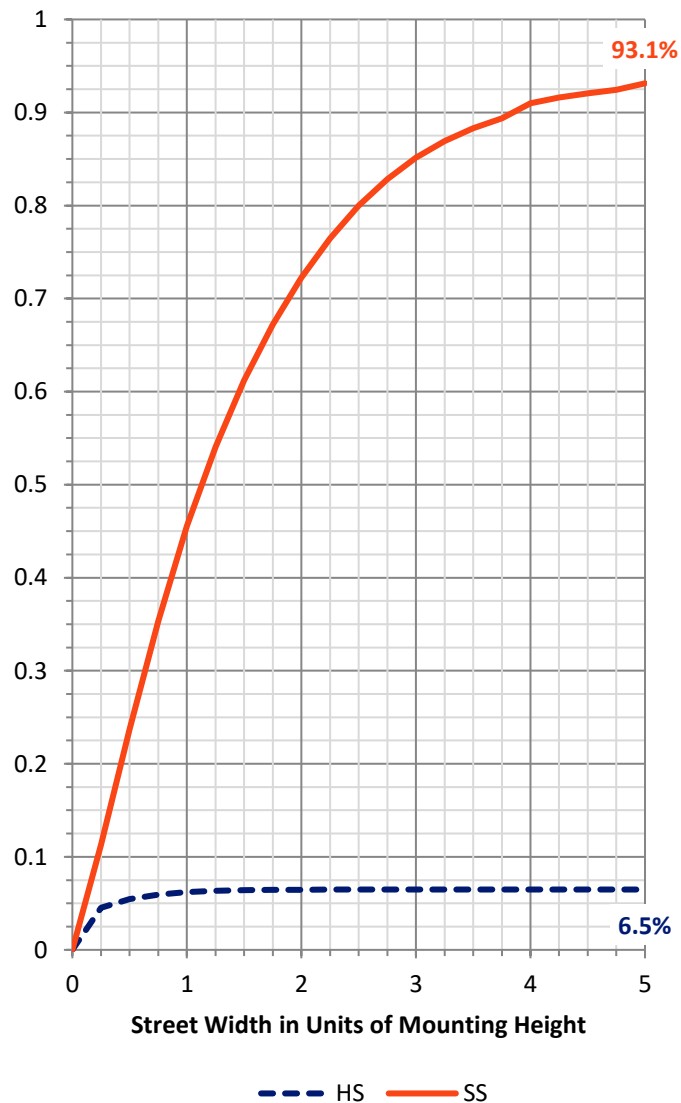
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2560.8	0.0	2560.8
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	36712.2	0.0	36712.2
	% Fixture	93.5	0.0	93.5
Total	Lumens	39273.0	0.0	39273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.7	1.3
10°-20°	1358.3	3.5
20°-30°	2275.5	5.8
30°-40°	3529.0	9.0
40°-50°	5592.4	14.2
50°-60°	8197.6	20.9
60°-70°	10507.3	26.8
70°-80°	6602.5	16.8
80°-90°	687.8	1.8
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°	39273.0	100.0
0°-180°	39273.0	100.0

Coefficient of Utilization

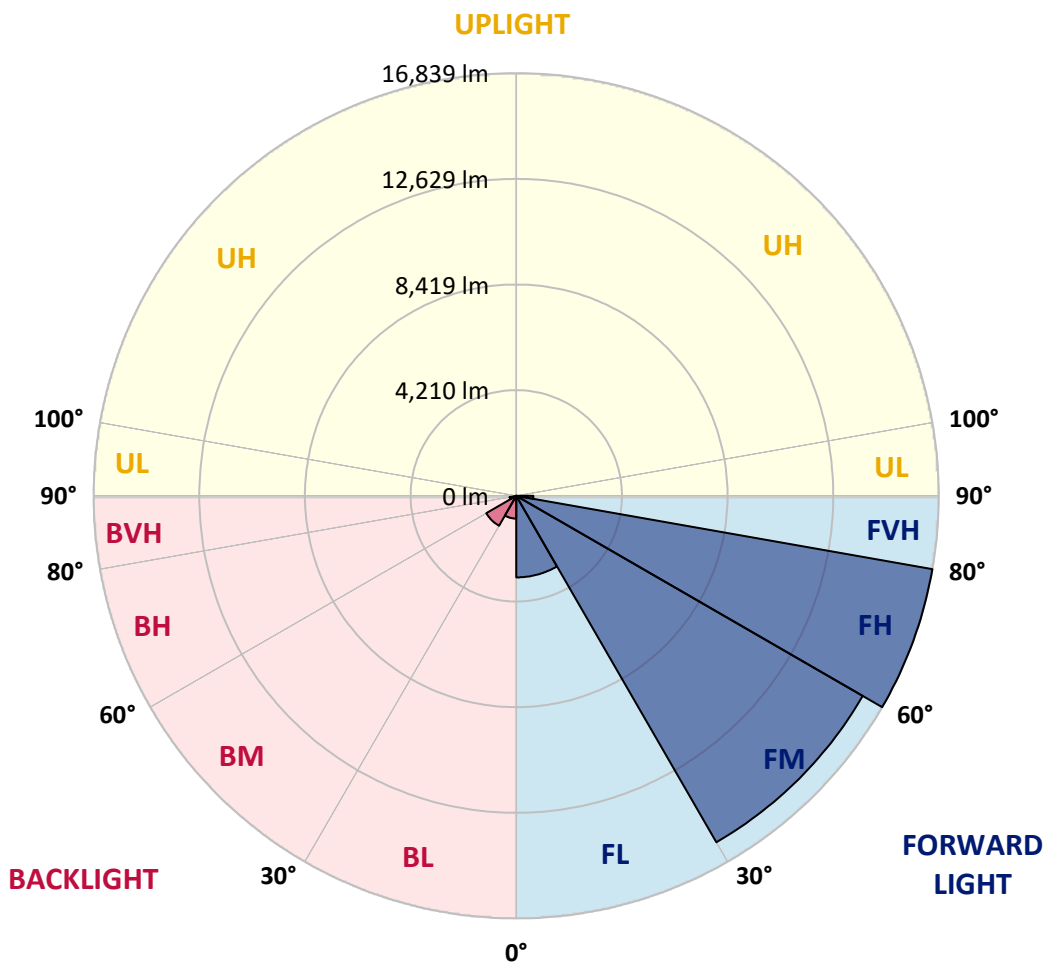


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3249.6	8.3			
FM (30°-60°)	15940.8	40.6			
FH (60°-80°)	16839.0	42.9			G5
FVH (80°-90°)	682.8	1.7			G4/750
BL (0°-30°)	906.8	2.3	B2/1000		
BM (30°-60°)	1378.1	3.5	B2/2500		
BH (60°-80°)	270.8	0.7	B1/500		G1/500
BVH (80°-90°)	5.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6127.9	6127.9	6127.9	6127.9	6127.9	6127.9	6127.9	6127.9	6127.9	6127.9	6127.9
2.5°	7080.6	7056.9	7025.2	6988.3	6882.7	6864.2	6800.9	6666.3	6505.3	6373.4	6191.3
5°	7415.8	7429.0	7405.3	7339.2	7262.7	7217.9	7138.7	6930.2	6721.7	6455.2	6157.0
7.5°	7492.3	7518.7	7489.7	7426.4	7352.4	7304.9	7241.6	7062.1	6819.4	6515.9	6106.8
10°	7484.4	7516.1	7497.6	7439.6	7378.8	7334.0	7265.4	7122.8	6927.6	6608.2	6122.6
12.5°	7471.2	7513.5	7510.8	7481.8	7431.7	7397.4	7355.1	7228.4	7046.3	6742.8	6209.8
15°	7434.3	7487.1	7534.6	7558.3	7560.9	7560.9	7508.2	7373.6	7199.4	6919.7	6323.2
17.5°	7450.1	7510.8	7629.6	7698.2	7745.7	7740.4	7685.0	7539.8	7347.2	7101.7	6442.0
20°	7547.7	7629.6	7795.8	7933.1	7980.6	7964.8	7890.9	7722.0	7502.9	7257.5	6558.1
22.5°	7787.9	7861.8	8070.3	8231.3	8265.6	8223.4	8117.8	7888.2	7690.3	7426.4	6698.0
25°	8146.9	8233.9	8426.6	8548.0	8548.0	8524.2	8376.4	8107.2	7901.4	7661.3	6880.1
27.5°	8582.3	8656.2	8846.2	8954.4	8891.1	8822.4	8674.7	8350.0	8152.1	7956.8	7099.1
30°	9023.0	9070.5	9271.1	9318.6	9252.6	9165.6	9007.2	8682.6	8508.4	8357.9	7415.8
32.5°	9440.0	9542.9	9709.2	9698.6	9608.8	9566.6	9421.5	9075.8	8978.2	8962.3	7859.1
35°	9856.9	9936.2	10083.9	10120.8	10041.7	10033.8	9928.2	9672.3	9674.9	9777.8	8550.6
37.5°	10215.9	10287.1	10461.3	10543.1	10558.9	10598.5	10556.3	10387.4	10627.5	10910.0	9466.4
40°	10516.7	10617.0	10838.7	10981.2	11144.8	11290.0	11297.9	11334.8	11817.8	12303.4	10661.9
42.5°	10751.6	10891.5	11213.5	11477.4	11852.1	12036.8	12184.7	12387.8	13200.7	13926.4	12071.1
45°	11057.7	11218.7	11619.8	12034.2	12620.0	12923.6	13129.4	13673.1	14826.3	15816.0	13517.4
47.5°	11564.4	11648.9	12057.9	12662.3	13432.9	13865.7	14266.9	15090.2	16570.7	17457.5	14720.8
50°	12216.3	12271.7	12580.5	13419.7	14417.3	14987.3	15718.4	16686.9	18381.1	18819.2	15401.7
52.5°	12936.8	12955.3	13187.5	14253.7	15520.4	16238.3	17056.3	18251.9	19856.4	19790.4	15852.9
55°	13773.3	13747.0	13944.9	15158.9	16826.7	17647.5	18600.2	19853.7	21136.3	20479.3	16111.5
57.5°	14731.3	14660.1	14852.7	16359.6	18499.9	19481.7	20450.2	21236.7	22128.6	21057.2	16235.6
60°	15734.2	15591.6	15821.2	17708.2	20471.3	21402.9	22207.9	22419.0	23173.8	21516.4	16021.8
62.5°	16533.8	16536.5	16964.0	19143.9	22498.1	23313.6	23741.2	23931.2	24073.6	21416.1	14897.6
65°	17782.1	17824.3	18507.9	21136.3	24844.2	25551.5	25844.5	25227.0	24113.2	20170.5	13208.6
67.5°	19070.0	19204.6	20455.5	23881.0	27554.6	28124.6	27747.3	25477.7	23036.5	17328.2	10015.3
70°	19489.6	19711.3	21772.4	25770.6	29180.3	29475.9	28198.6	24308.5	19257.4	11585.5	5040.6
72.5°	17858.6	18217.6	21015.0	25081.8	28143.1	27887.1	25229.6	20386.8	12242.7	4399.4	1538.6
75°	12593.6	12752.0	17465.4	20806.5	22635.3	21909.6	19191.4	13142.6	5035.3	1235.1	527.8
77.5°	6502.7	6426.2	10387.4	13805.0	16143.2	15391.1	12567.3	6803.5	1908.1	514.6	327.2
80°	3362.1	3417.6	4494.4	7233.7	9854.3	9067.8	6700.6	3153.7	1016.0	285.0	250.7
82.5°	1884.3	1768.2	2583.6	3159.0	4607.8	3612.9	2570.4	2232.7	443.4	171.6	237.5
85°	343.0	358.9	1417.2	1707.5	1599.2	1016.0	828.6	1491.1	129.3	95.0	166.3
87.5°	5.3	5.3	274.5	490.9	311.4	142.5	261.3	213.8	26.4	36.9	29.0
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°	6127.9	6127.9	6127.9	6127.9	6127.9	6127.9	6127.9	6127.9	6127.9	6127.9	6127.9
2.5°	6098.9	5998.6	5811.2	5626.5	5391.7	5199.0	5069.6	4935.1	4797.8	4808.4	4840.0
5°	5993.4	5819.1	5449.7	5059.1	4684.4	4346.5	4014.0	3715.8	3594.4	3483.6	3488.9
7.5°	5887.8	5642.4	5101.3	4489.1	3921.7	3346.3	2929.4	2586.3	2404.2	2267.0	2227.4
10°	5840.2	5515.7	4782.0	3940.2	3135.2	2507.1	1971.4	1691.7	1475.3	1406.7	1425.1
12.5°	5861.3	5452.4	4494.4	3444.0	2486.0	1747.1	1372.3	1229.8	1182.3	1174.4	1169.1
15°	5901.0	5407.5	4212.0	2895.1	1826.2	1298.4	1153.3	1126.9	1121.6	1116.3	1119.0
17.5°	5953.8	5367.9	3911.2	2380.5	1401.4	1134.8	1092.5	1079.4	1076.7	1076.7	1076.7
20°	6006.5	5323.0	3575.9	1921.3	1169.1	1071.4	1045.1	1037.1	1034.5	1034.5	1031.9
22.5°	6067.2	5283.4	3235.5	1509.5	1076.7	1026.6	1002.8	997.6	994.9	992.3	992.3
25°	6154.4	5233.3	2873.9	1235.1	1018.7	984.4	960.6	955.4	952.7	942.2	944.8
27.5°	6270.4	5196.4	2501.8	1066.2	965.9	931.6	915.8	907.9	902.6	894.7	897.3
30°	6428.8	5164.7	2105.9	973.8	905.2	876.2	860.3	855.0	849.7	841.8	841.8
32.5°	6703.3	5177.9	1689.0	900.0	849.7	815.4	799.6	794.3	789.1	781.2	781.2
35°	7114.9	5254.4	1351.2	836.6	783.8	749.5	733.7	733.7	725.8	715.2	712.6
37.5°	7787.9	5449.7	1084.6	775.9	720.5	688.8	670.4	665.1	657.2	641.3	638.7
40°	8582.3	5753.2	913.2	715.2	662.4	630.8	614.9	599.0	577.9	562.1	559.5
42.5°	9579.8	6064.6	791.7	654.5	606.9	577.9	559.5	533.1	501.4	480.3	477.7
45°	10619.6	6349.6	709.9	599.0	554.2	530.4	509.3	467.1	427.6	401.2	398.5
47.5°	11395.6	6402.4	644.0	546.3	509.3	485.6	456.6	403.8	351.0	327.2	319.3
50°	11762.4	6146.4	575.3	493.5	464.5	438.1	401.2	340.4	282.4	253.4	248.1
52.5°	11891.7	5703.1	519.9	446.0	419.6	388.0	343.0	274.5	221.7	192.7	190.0
55°	11838.9	5143.6	469.8	401.2	366.8	329.9	285.0	219.1	163.7	139.9	134.6
57.5°	11561.8	4431.0	419.6	356.2	314.0	277.1	227.0	163.7	110.8	89.7	87.1
60°	10814.9	3459.8	369.5	306.1	266.5	227.0	179.5	116.1	68.6	50.1	50.1
62.5°	9553.4	2567.8	321.9	256.0	224.3	182.1	126.7	73.9	36.9	26.4	23.7
65°	7983.2	1894.9	269.2	216.4	187.4	142.5	89.7	44.8	18.5	7.9	5.3
67.5°	5571.1	1169.1	224.3	176.8	153.1	102.9	55.4	18.5	7.9	0.0	0.0
70°	2530.9	556.8	171.6	134.6	116.1	73.9	29.0	10.6	5.3	0.0	0.0
72.5°	786.4	292.9	121.4	97.6	79.1	47.5	15.8	7.9	5.3	0.0	0.0
75°	364.2	187.4	76.5	52.8	44.8	23.7	10.6	5.3	2.6	0.0	0.0
77.5°	271.8	145.2	44.8	29.0	23.7	15.8	7.9	5.3	2.6	0.0	0.0
80°	237.5	73.9	26.4	18.5	13.2	10.6	5.3	2.6	0.0	0.0	0.0
82.5°	213.8	36.9	15.8	10.6	7.9	5.3	2.6	2.6	0.0	0.0	0.0
85°	116.1	21.1	10.6	7.9	5.3	2.6	2.6	0.0	0.0	0.0	0.0
87.5°	21.1	10.6	7.9	5.3	5.3	2.6	2.6	2.6	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)