

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: P652636

Luminaire Tested: **GALN-SA9B-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33966.3 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

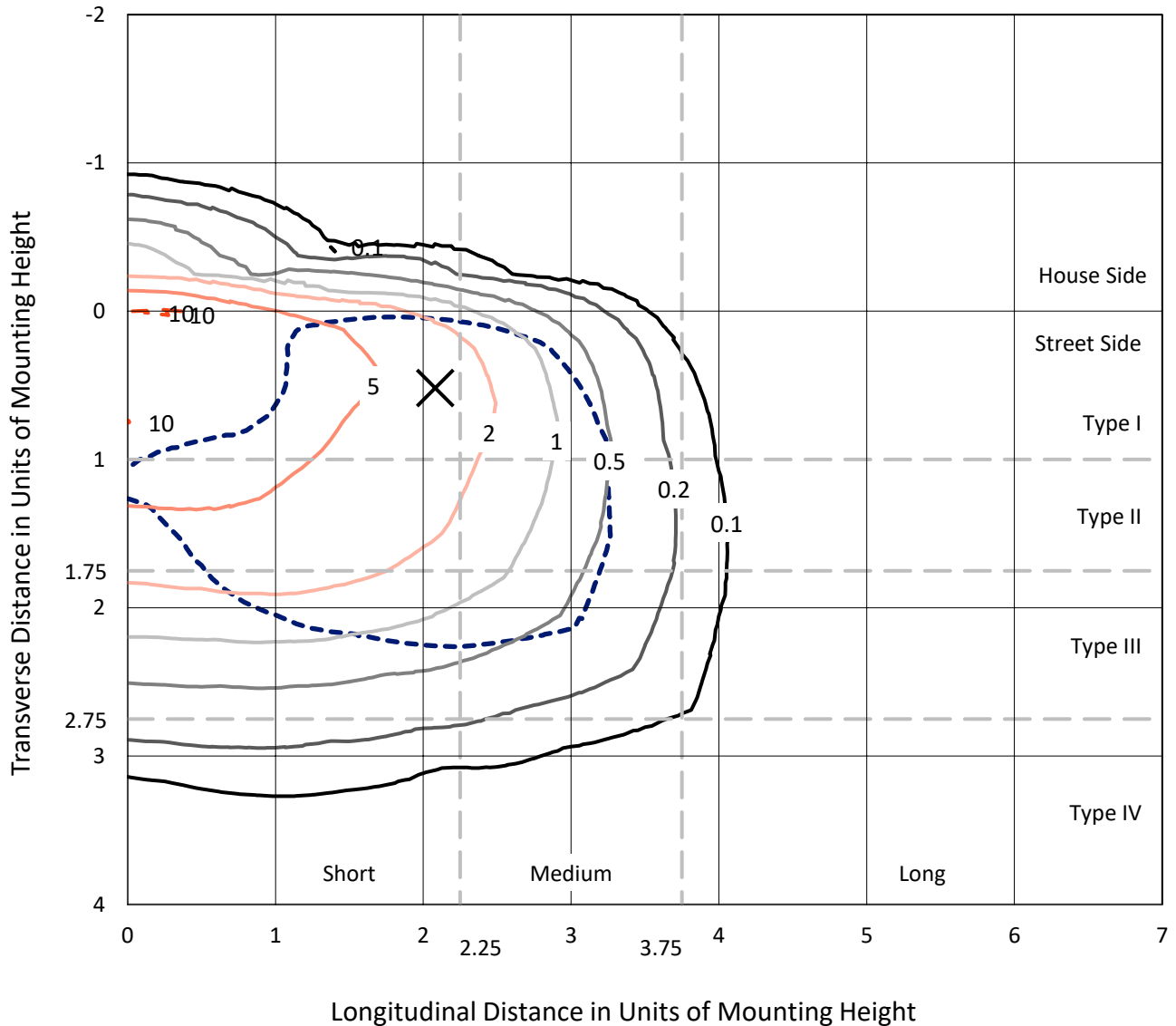
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

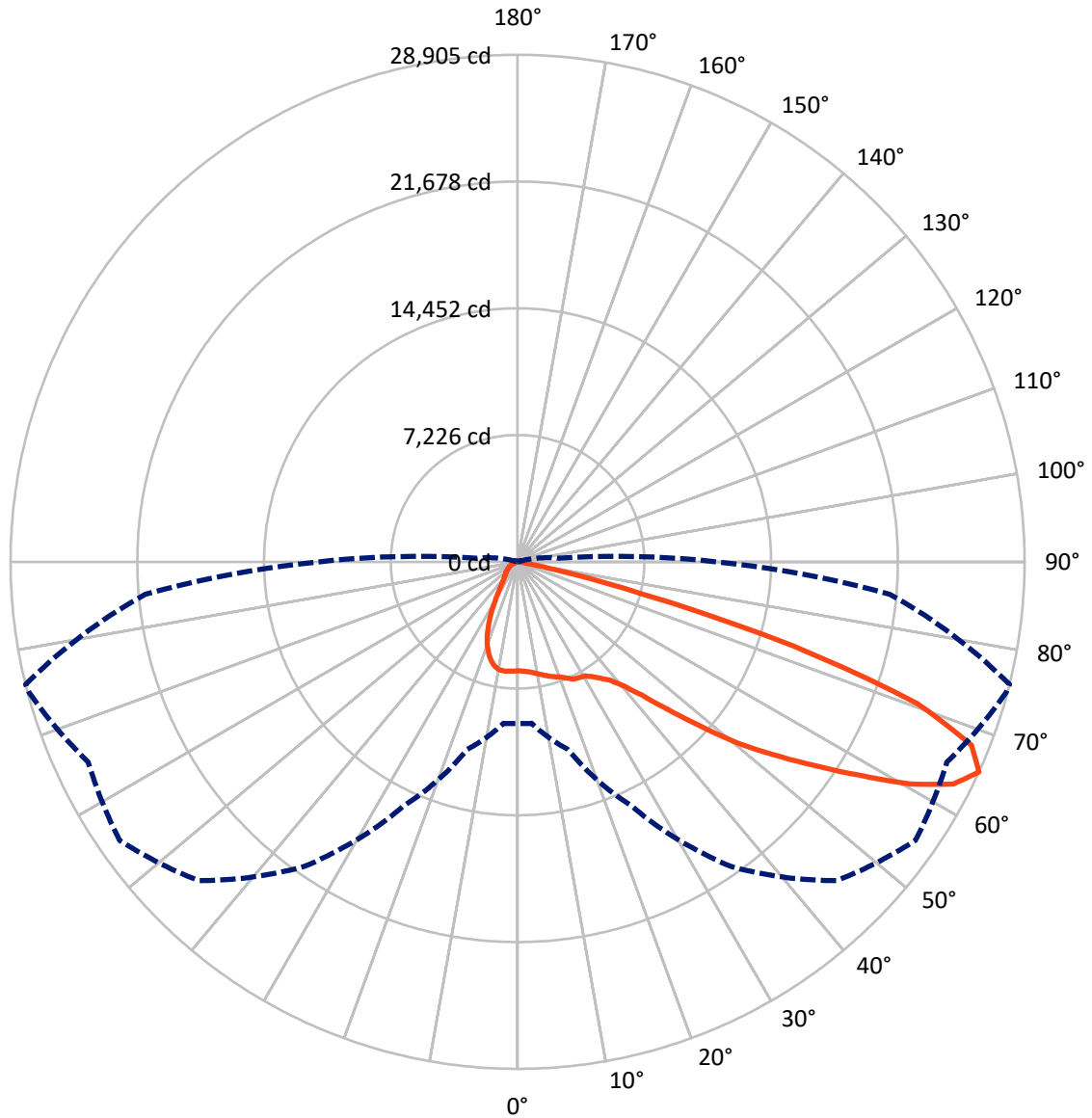
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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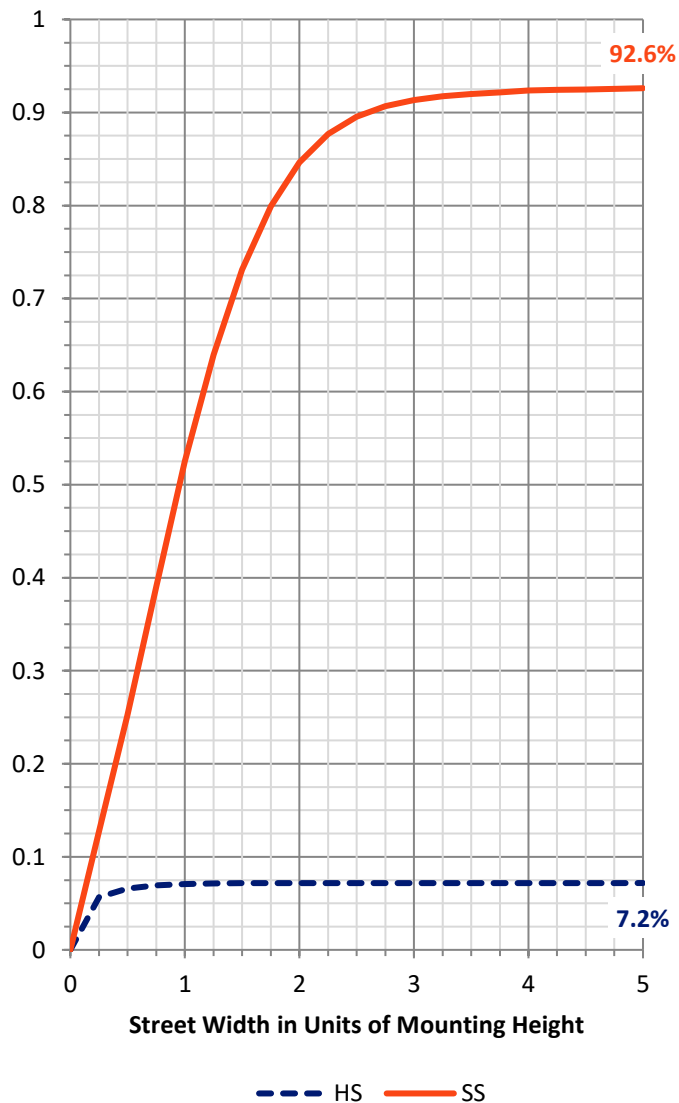
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2453.0	0.0	2453.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	31513.3	0.0	31513.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	33966.3	0.0	33966.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.8	1.5
10°-20°	1139.7	3.4
20°-30°	1836.5	5.4
30°-40°	3193.2	9.4
40°-50°	5276.5	15.5
50°-60°	8151.1	24.0
60°-70°	9953.7	29.3
70°-80°	3777.7	11.1
80°-90°	126.1	0.4
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°	33966.3	100.0
0°-180°	33966.3	100.0

Coefficient of Utilization

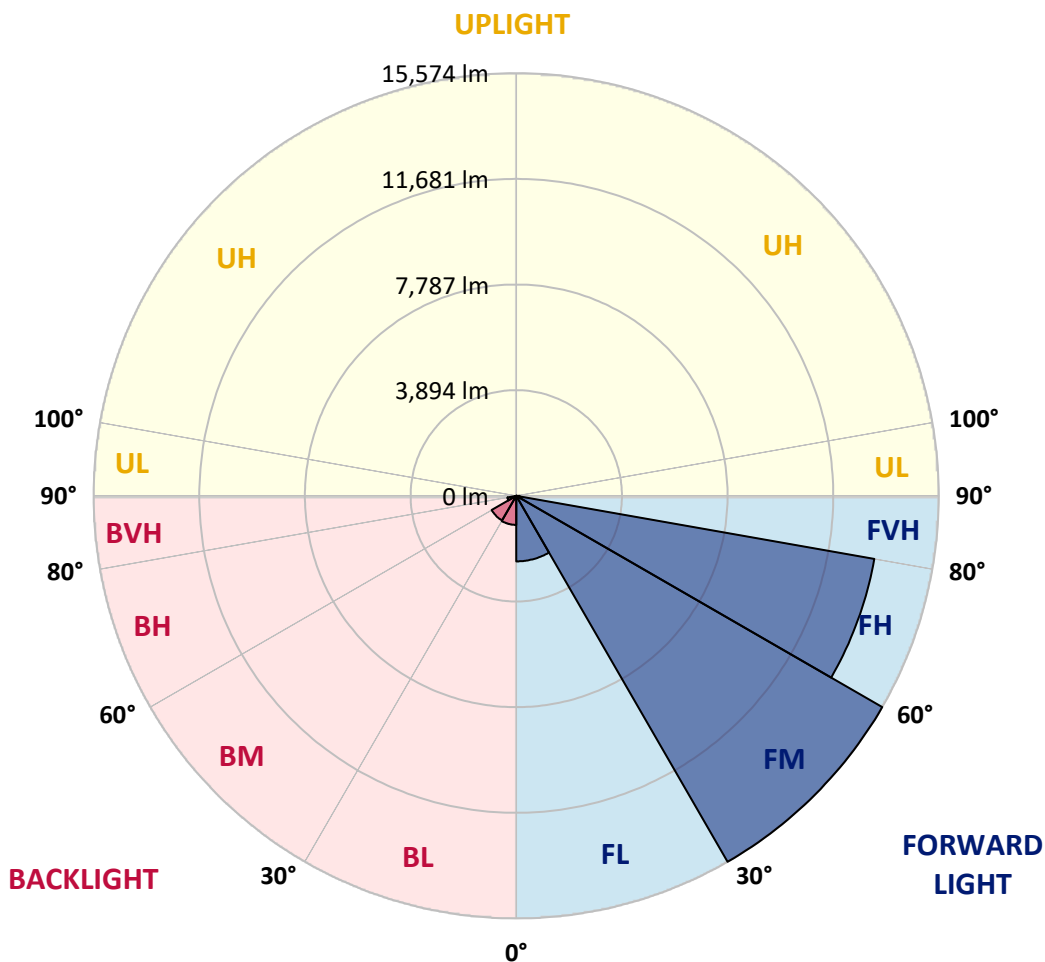


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2416.3	7.1			
FM (30°-60°)	15574.1	45.9			
FH (60°-80°)	13398.6	39.4			G5
FVH (80°-90°)	124.3	0.4			G2/225
BL (0°-30°)	1071.7	3.2	B3/2500		
BM (30°-60°)	1046.8	3.1	B2/2500		
BH (60°-80°)	332.9	1.0	B1/500		G1/500
BVH (80°-90°)	1.7	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6
2.5°	5937.7	5940.2	5954.5	5990.5	6045.6	6091.2	6129.6	6191.9	6235.1	6239.9	6254.3
5°	5527.6	5498.9	5527.6	5621.2	5705.1	5832.3	5988.1	6144.0	6283.0	6292.7	6359.8
7.5°	5067.2	5091.2	5136.7	5232.7	5391.0	5585.2	5810.6	6088.8	6352.6	6376.6	6508.5
10°	4599.6	4652.3	4726.7	4873.0	5093.6	5345.4	5652.4	6050.5	6462.9	6496.5	6724.3
12.5°	4167.9	4191.9	4283.0	4479.7	4753.1	5108.0	5532.4	6028.9	6585.2	6626.0	6954.6
15°	3837.0	3868.2	3947.3	4124.8	4429.3	4884.9	5434.1	6021.6	6705.1	6762.6	7184.7
17.5°	3774.7	3793.8	3827.4	3947.3	4213.5	4707.5	5345.4	6019.3	6820.3	6889.8	7398.2
20°	4031.2	4014.4	3980.9	3968.8	4115.2	4570.8	5280.6	6038.5	6930.6	7009.7	7623.6
22.5°	4673.9	4695.6	4498.8	4266.2	4218.3	4549.2	5271.1	6129.6	7105.6	7199.1	7875.4
25°	6038.5	5873.0	5566.0	5009.7	4590.0	4681.1	5379.0	6345.4	7309.5	7412.6	8103.2
27.5°	7546.9	7496.5	7019.3	6103.2	5321.4	4959.3	5570.9	6510.9	7376.6	7482.1	8232.7
30°	9028.9	9088.9	8542.1	7530.1	6383.8	5474.9	5750.7	6573.3	7436.5	7546.9	8398.2
32.5°	10403.0	10475.0	9995.4	8993.0	7635.6	6367.0	6060.1	6815.5	7688.3	7801.1	8674.0
35°	11484.6	11494.2	11132.1	10333.5	9002.6	7450.9	6729.1	7239.9	8028.9	8160.8	8966.6
37.5°	12477.4	12463.0	12038.6	11350.3	10141.6	8527.7	7570.9	7729.1	8417.4	8554.1	9388.6
40°	13213.6	13223.2	13086.5	12439.1	11204.0	9522.9	8237.5	8187.1	9069.7	9283.1	10002.5
42.5°	13705.3	13794.0	13861.1	13532.6	12539.7	10748.4	9261.5	9168.0	10201.6	10379.0	10870.7
45°	14103.3	14261.6	14597.3	14580.6	13822.8	12251.9	10666.8	10475.0	11806.0	11995.4	11976.2
47.5°	14393.5	14554.2	15110.5	15446.3	15029.0	13710.1	12434.3	12268.8	13722.0	13928.3	13196.8
50°	14542.2	14734.1	15443.9	16093.8	15971.4	15115.3	14448.6	14458.2	16036.2	16235.3	14611.7
52.5°	14194.5	14443.8	15621.3	16791.7	17029.0	16460.6	16336.0	16652.6	18096.2	18266.4	15889.9
55°	13084.1	13398.3	15379.1	17386.3	18254.5	18048.2	18479.9	18961.9	20348.0	20458.3	17201.7
57.5°	12381.5	12714.8	14664.5	17892.4	19726.9	20043.5	20726.9	21079.4	22671.8	22952.4	18707.7
60°	11789.1	12050.5	14076.9	18000.3	21223.3	22484.7	23149.0	23513.5	25539.9	25722.2	20364.8
62.5°	10803.5	11103.3	13084.1	17247.2	21976.3	24439.2	25815.8	25652.7	27758.2	27885.3	21381.6
65°	9218.4	9244.8	11069.7	15355.1	21199.3	25707.9	27688.7	27005.2	28818.2	28904.5	21302.4
67.5°	6880.2	7134.4	8515.7	12069.7	17906.7	24623.9	28295.4	27041.2	28149.1	27909.3	19611.8
70°	4431.7	4626.0	5772.3	8369.5	12911.5	20549.5	26283.4	25187.4	24705.4	24173.0	16053.0
72.5°	2045.6	2295.0	3429.3	4781.8	7657.2	14638.1	21336.1	20463.1	17782.0	16467.9	10204.0
75°	892.1	954.5	1693.1	2522.8	3590.0	7741.2	14067.3	12702.8	8031.3	7335.9	4084.0
77.5°	544.4	585.2	887.3	1352.5	1410.1	2949.7	7578.1	5542.0	2482.0	2189.5	1107.9
80°	369.3	414.9	645.1	707.4	482.1	822.6	2844.2	1479.7	501.2	479.6	237.4
82.5°	179.9	227.8	477.2	395.7	208.7	263.8	827.4	316.6	146.2	136.7	83.9
85°	26.4	45.6	268.6	259.0	93.5	62.3	146.2	79.1	50.4	47.9	38.3
87.5°	0.0	0.0	91.2	40.8	9.6	9.6	16.8	16.8	19.2	16.8	19.2
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°	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6	6213.6
2.5°	6261.5	6273.4	6227.9	6163.2	6093.6	6024.1	5925.8	5837.0	5784.2	5815.4	5738.7
5°	6374.2	6364.6	6244.7	6048.1	5786.7	5472.5	5160.7	4894.5	4808.2	4678.7	4664.4
7.5°	6530.1	6503.7	6249.5	5798.6	5208.7	4618.8	4043.2	3662.0	3443.7	3259.0	3263.8
10°	6748.3	6671.6	6194.3	5359.8	4388.6	3498.8	2765.0	2261.4	2043.2	1973.7	1918.5
12.5°	6973.7	6825.1	6040.8	4767.5	3417.3	2391.0	1681.1	1374.1	1239.8	1196.7	1191.9
15°	7175.2	6940.2	5772.3	4055.2	2484.5	1527.6	1146.3	1045.6	1028.8	1031.2	1028.8
17.5°	7374.2	7031.3	5400.6	3299.8	1688.3	1095.9	985.7	961.7	968.8	978.4	976.1
20°	7539.6	7050.4	4925.7	2518.0	1194.3	961.7	925.7	920.9	928.0	935.3	935.3
22.5°	7719.5	7064.8	4362.2	1743.4	976.1	894.5	875.3	875.3	884.9	894.5	896.9
25°	7853.8	6985.7	3688.3	1251.8	860.9	829.7	820.1	822.6	832.2	837.0	834.5
27.5°	7875.4	6762.6	2973.7	959.2	781.8	750.6	741.0	750.6	738.7	745.8	741.0
30°	7894.6	6479.7	2249.4	808.2	709.8	661.9	647.5	633.1	623.5	611.5	609.1
32.5°	7954.5	6146.4	1642.7	726.6	642.7	590.0	556.3	515.6	484.4	474.8	472.4
35°	7980.9	5745.9	1206.2	661.9	582.7	525.2	465.2	407.7	362.1	345.3	357.3
37.5°	8081.7	5357.4	935.3	613.9	530.0	458.0	381.3	309.3	266.2	256.6	261.4
40°	8287.9	4935.3	784.1	573.1	484.4	395.7	302.2	232.6	203.9	194.3	191.8
42.5°	8618.8	4515.7	697.9	534.8	438.8	333.4	237.4	182.2	158.3	151.0	151.0
45°	9021.7	4112.7	637.9	494.0	390.9	268.6	187.0	146.2	131.9	127.1	127.1
47.5°	9551.7	3760.3	587.5	453.2	338.2	213.4	151.0	127.1	117.5	119.9	122.3
50°	10088.9	3498.8	532.4	407.7	278.2	175.1	129.5	112.7	110.3	112.7	112.7
52.5°	10494.2	3345.4	458.0	345.3	218.2	146.2	115.1	105.5	103.1	98.3	98.3
55°	11040.9	3311.8	364.5	280.6	172.7	122.3	103.1	96.0	88.7	83.9	81.6
57.5°	11743.6	3350.2	280.6	218.2	134.3	100.8	91.2	79.1	69.6	60.0	60.0
60°	12180.0	3263.8	218.2	167.9	98.3	81.6	69.6	57.5	45.6	38.3	36.0
62.5°	12040.9	2899.3	172.7	124.7	69.6	60.0	45.6	38.3	26.4	19.2	16.8
65°	11323.9	2340.6	139.1	86.4	50.4	36.0	24.0	24.0	12.0	2.4	0.0
67.5°	9911.4	1733.8	110.3	57.5	28.8	16.8	12.0	7.2	0.0	0.0	0.0
70°	8067.3	1251.8	86.4	36.0	16.8	12.0	4.8	2.4	0.0	0.0	0.0
72.5°	5122.4	717.0	67.1	21.6	12.0	4.8	0.0	0.0	0.0	0.0	0.0
75°	1980.8	280.6	45.6	14.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	561.2	131.9	26.4	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	146.2	57.5	14.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	69.6	24.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.8	9.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.2	2.4	0.0	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)