

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: P651774

Luminaire Tested: **GALN-SA3A-840-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651774
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-SA3A-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA 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: 9406.6 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

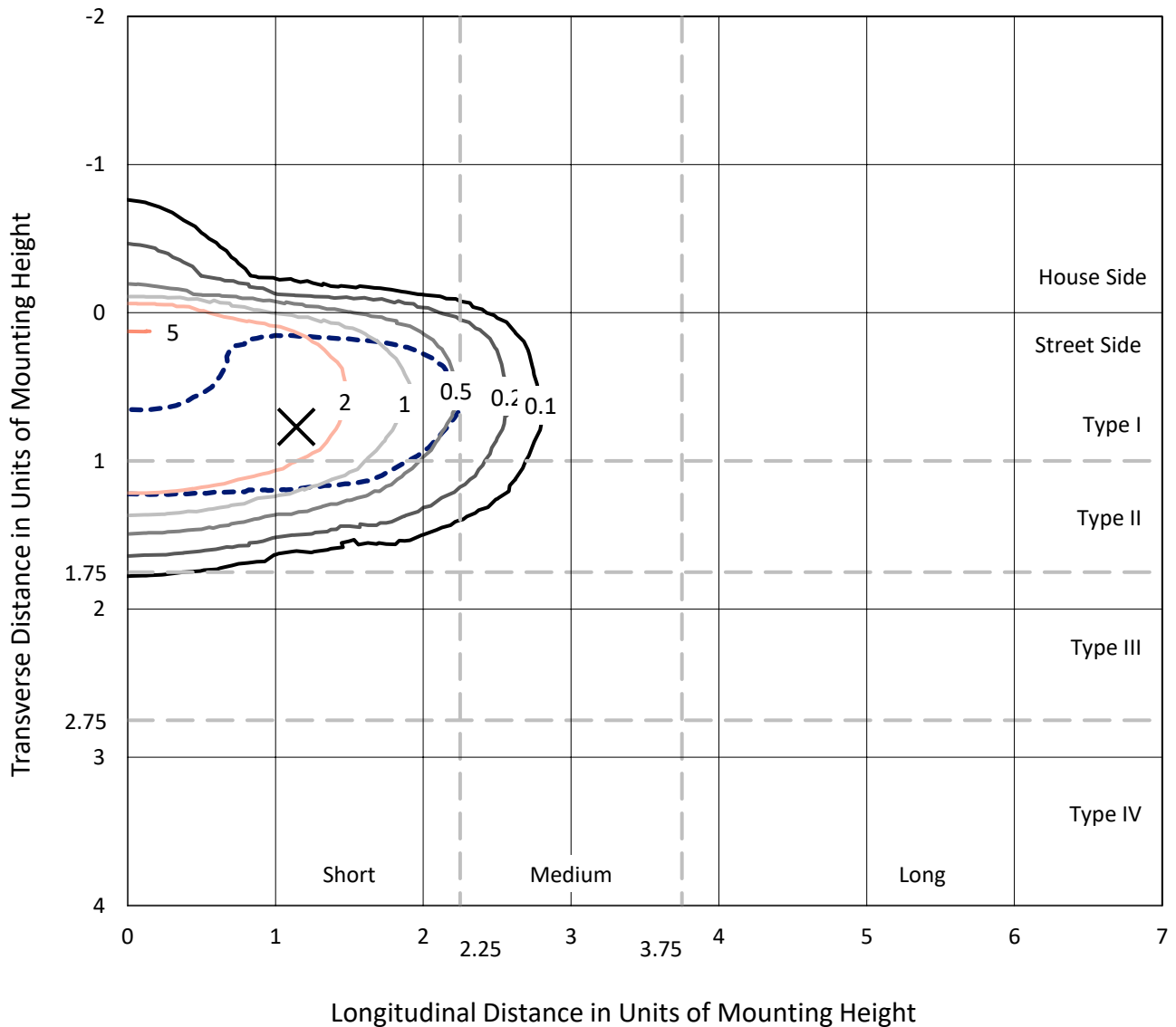
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651774
 CATALOG NUMBER: GALN-SA3A-840-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

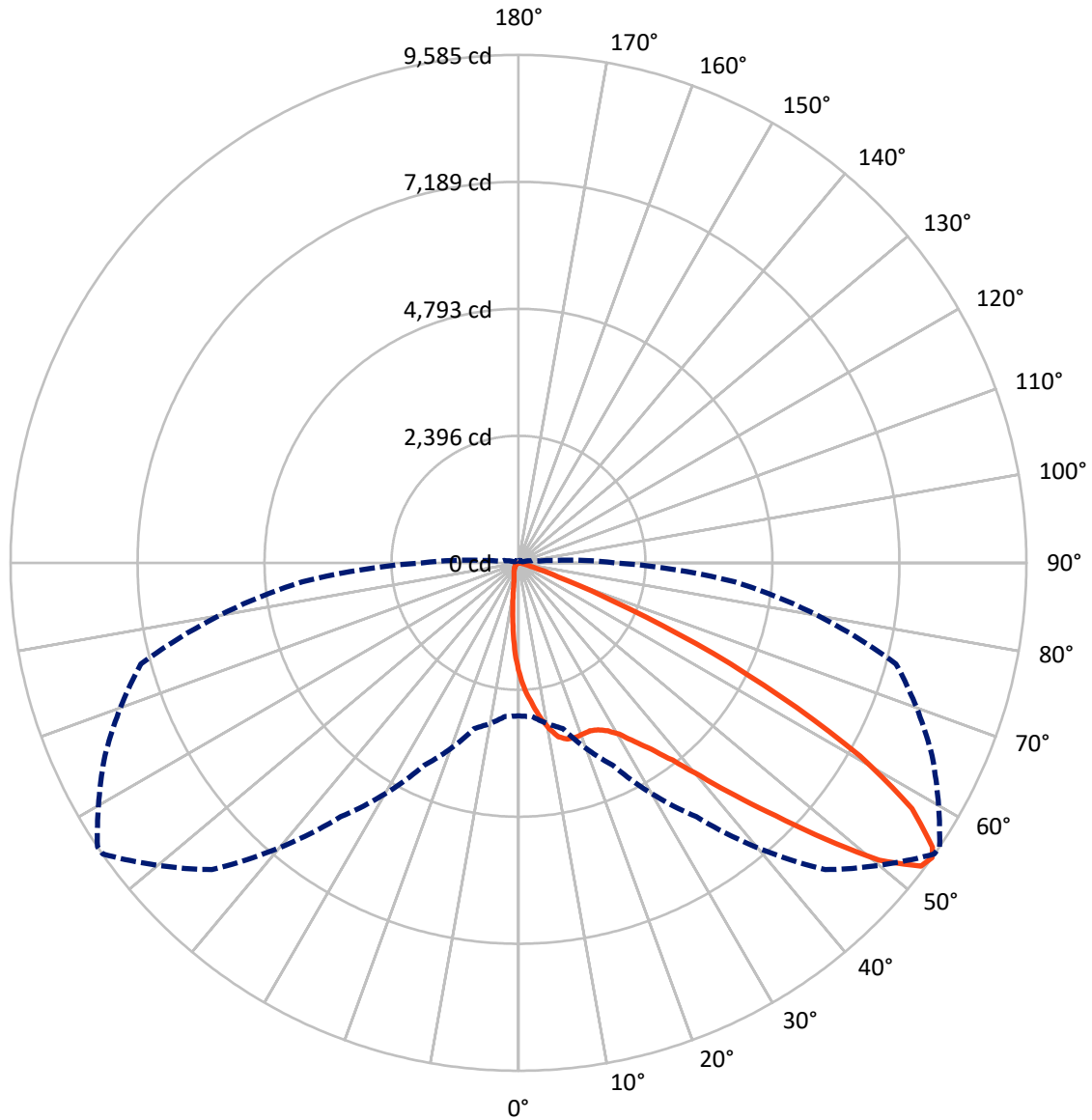
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

REPORT NUMBER: P651774
CATALOG NUMBER: GALN-SA3A-840-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P651774
 CATALOG NUMBER: GALN-SA3A-840-U-AFL-HSS

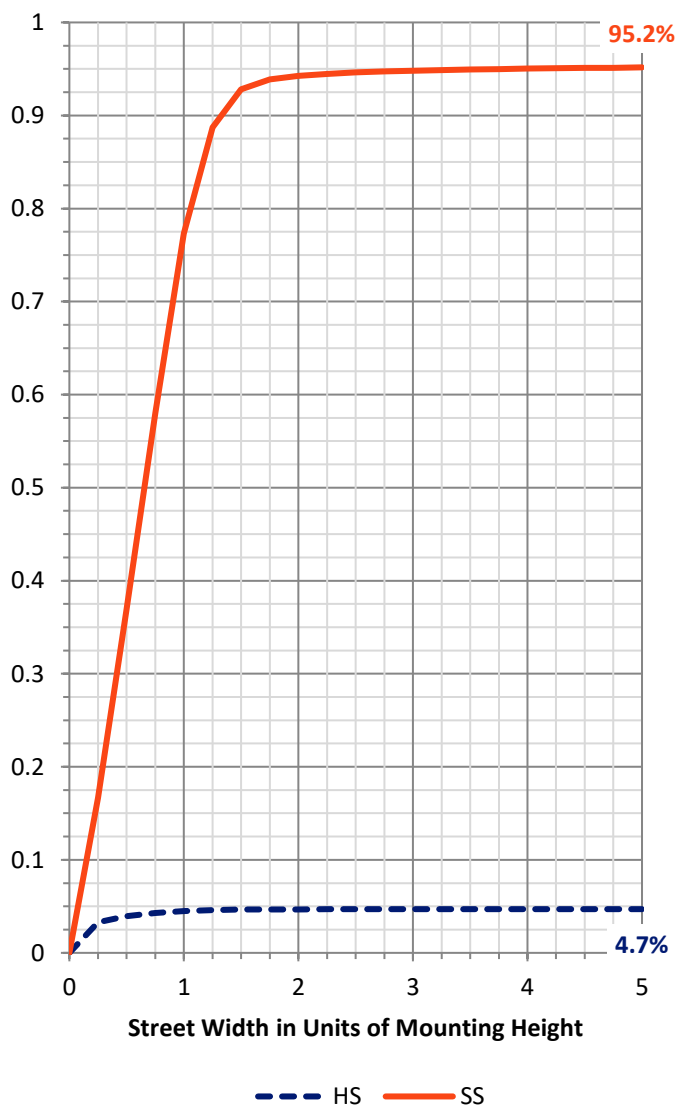
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	444.8	0.0	444.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	8961.8	0.0	8961.8
	% Fixture	95.3	0.0	95.3
Total	Lumens	9406.6	0.0	9406.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	2.0
10°-20°	499.2	5.3
20°-30°	864.6	9.2
30°-40°	1492.5	15.9
40°-50°	2540.3	27.0
50°-60°	2513.9	26.7
60°-70°	1147.4	12.2
70°-80°	147.4	1.6
80°-90°	16.6	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°	9406.6	100.0
0°-180°	9406.6	100.0

Coefficient of Utilization



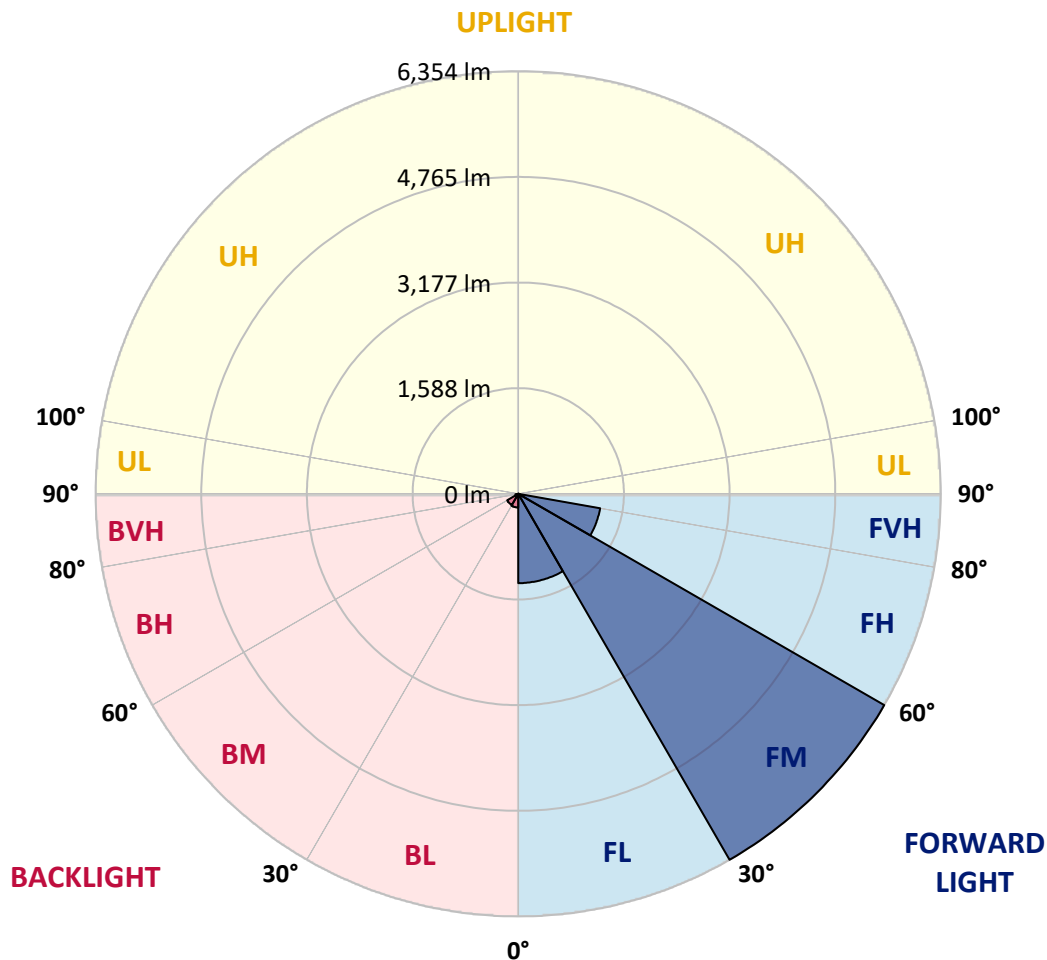
REPORT NUMBER: P651774
 CATALOG NUMBER: GALN-SA3A-840-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1342.8	14.3			
FM (30°-60°)	6353.9	67.5			
FH (60°-80°)	1250.2	13.3			G1/1800
FVH (80°-90°)	14.8	0.2			G1/100
BL (0°-30°)	205.7	2.2	B1/500		
BM (30°-60°)	192.8	2.0	B0/220		
BH (60°-80°)	44.6	0.5	B0/110		G0/110
BVH (80°-90°)	1.8	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-G1

Type II Short





REPORT NUMBER: P651774

CATALOG NUMBER: GALN-SA3A-840-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9
2.5°	2656.0	2637.5	2612.1	2592.5	2546.2	2479.5	2409.1	2409.1	2341.2	2246.6	2150.2
5°	3063.4	3051.3	3026.6	2975.8	2923.8	2830.5	2689.0	2664.2	2543.0	2371.6	2191.4
7.5°	3229.0	3234.7	3236.0	3222.7	3198.0	3105.9	2965.7	2948.5	2754.9	2525.3	2245.4
10°	3070.4	3098.3	3125.6	3180.8	3258.9	3281.1	3201.8	3184.0	2993.6	2680.7	2303.8
12.5°	2834.3	2849.6	2864.8	2951.7	3108.5	3288.1	3371.2	3370.6	3209.3	2835.6	2378.0
15°	2724.5	2737.9	2739.1	2777.8	2913.6	3175.1	3443.6	3453.1	3420.1	3026.6	2458.0
17.5°	2747.4	2758.1	2749.2	2758.8	2829.9	3050.7	3435.3	3467.0	3590.8	3210.0	2530.3
20°	2896.5	2917.4	2883.2	2856.5	2878.1	3017.7	3407.4	3451.8	3711.4	3389.0	2596.3
22.5°	3164.3	3175.8	3132.6	3059.6	3021.5	3086.9	3399.7	3443.6	3814.2	3535.6	2634.4
25°	3462.0	3458.2	3410.6	3328.7	3248.7	3226.5	3450.0	3489.2	3899.2	3667.6	2645.8
27.5°	3759.6	3771.0	3691.1	3589.6	3493.7	3435.9	3562.2	3591.4	3995.1	3818.0	2659.7
30°	4105.5	4087.1	4008.4	3892.2	3782.5	3701.8	3743.1	3751.4	4127.0	4017.3	2696.6
32.5°	4555.4	4504.6	4416.4	4213.4	4134.7	3998.2	4008.4	4018.6	4287.7	4214.7	2741.0
35°	5166.0	5163.4	4990.8	4717.3	4525.6	4356.2	4311.7	4320.0	4530.7	4507.8	2839.4
37.5°	5900.9	5911.1	5714.3	5438.9	5086.0	4816.9	4725.5	4726.8	4900.1	4912.8	2989.2
40°	6499.3	6526.0	6408.6	6222.6	5874.2	5453.5	5299.9	5285.9	5419.2	5403.3	3203.0
42.5°	6757.0	6781.7	6825.6	6890.3	6698.6	6351.5	5989.1	6008.2	6048.7	5937.7	3442.9
45°	6630.7	6670.1	6842.0	7241.9	7422.2	7305.3	6873.2	6806.5	6634.6	6518.4	3684.1
47.5°	6104.7	6200.4	6487.9	7153.7	7784.5	8179.2	7870.8	7782.6	7220.9	6942.4	3837.7
50°	5239.6	5245.3	5645.8	6496.8	7596.7	8730.8	8889.5	8823.4	7767.4	7180.3	3915.1
52.5°	3798.3	3923.3	4290.2	5275.8	6783.0	8647.0	9538.6	9511.4	8330.9	7302.2	4026.8
54°	2887.7	2911.7	3237.9	4215.9	5848.2	8186.9	9578.7	9585.0	8610.8	7375.8	4092.8
55°	2367.2	2309.5	2652.2	3591.4	5210.4	7780.1	9447.9	9478.3	8736.5	7413.8	4141.7
57.5°	1122.1	1122.7	1384.8	1894.4	3263.3	6041.2	8648.9	8756.7	8750.4	7479.3	4292.0
60°	568.0	571.8	629.6	874.6	1612.0	4016.0	7151.1	7408.2	8077.0	7488.8	4341.6
62.5°	397.3	392.8	383.3	420.8	678.4	2041.0	5324.0	5547.4	6862.4	7126.4	4184.2
65°	340.2	330.7	304.0	298.3	342.7	813.0	3316.0	3680.3	5239.6	6170.6	3736.1
67.5°	290.6	286.9	262.7	248.2	242.5	354.1	1711.0	1902.7	3581.3	4435.5	2829.9
70°	246.8	245.0	230.3	211.9	196.1	211.9	634.6	786.3	1995.9	2388.2	1335.3
72.5°	200.6	202.4	205.0	181.5	165.0	150.4	271.0	315.4	835.2	853.6	467.1
75°	175.8	173.9	173.9	158.0	137.8	111.7	149.1	160.5	255.7	237.3	108.5
77.5°	123.8	119.3	139.6	130.1	114.9	79.3	85.0	90.2	106.0	90.7	50.8
80°	85.7	85.7	89.5	116.8	103.4	57.8	52.1	55.8	62.8	53.9	29.2
82.5°	48.3	49.5	58.4	62.2	60.3	38.7	34.2	34.9	41.9	36.8	18.4
85°	5.7	9.5	33.6	33.0	24.7	17.2	19.0	19.7	26.0	22.9	10.8
87.5°	0.7	1.3	7.0	8.9	6.3	7.0	7.0	7.0	8.9	10.2	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651774

CATALOG NUMBER: GALN-SA3A-840-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9
2.5°	2098.1	2049.9	1935.1	1801.8	1716.7	1578.4	1461.6	1377.1	1356.2	1315.6	1327.7
5°	2095.6	1995.3	1761.1	1513.6	1249.6	1052.8	906.3	790.8	740.0	706.4	682.9
7.5°	2096.9	1940.1	1564.4	1170.3	854.9	662.0	526.1	455.7	408.7	389.0	391.6
10°	2100.6	1877.9	1335.9	866.9	576.9	427.7	344.6	311.0	295.1	292.6	291.9
12.5°	2109.6	1810.0	1117.6	643.5	403.6	311.0	279.2	267.9	262.7	262.7	260.9
15°	2119.1	1735.1	936.1	478.5	311.0	267.2	252.6	246.8	243.7	243.7	243.0
17.5°	2119.1	1648.8	766.7	371.3	267.9	245.6	234.2	226.6	224.0	224.0	223.4
20°	2105.8	1548.5	616.2	298.9	243.0	225.3	213.9	205.6	202.4	201.2	200.6
22.5°	2059.4	1414.6	490.6	257.0	222.8	207.6	192.9	183.4	180.9	179.6	180.2
25°	1976.9	1263.6	388.4	225.9	204.4	185.9	173.2	166.3	163.7	163.7	164.3
27.5°	1891.8	1105.6	307.8	202.4	182.2	165.7	155.5	151.0	150.4	152.3	153.0
30°	1813.2	946.9	249.4	183.4	162.5	148.5	141.5	140.3	140.3	140.9	141.5
32.5°	1725.6	807.9	208.8	166.9	146.6	134.6	130.8	130.8	132.0	132.0	133.3
35°	1670.4	688.6	183.4	151.0	134.6	124.4	121.9	122.4	124.4	126.9	128.2
37.5°	1640.5	593.4	166.9	138.3	123.1	116.1	113.6	114.9	119.3	123.8	124.4
40°	1643.1	521.7	153.6	127.6	114.2	106.6	104.7	108.5	112.9	117.4	118.1
42.5°	1671.0	468.4	140.9	114.9	106.6	95.8	95.2	99.0	100.9	105.4	106.0
45°	1704.0	429.7	127.6	101.5	92.7	83.2	83.8	87.0	89.5	96.5	97.7
47.5°	1714.1	403.0	112.4	86.3	76.2	73.0	73.6	75.5	80.6	87.0	87.5
50°	1725.6	386.5	97.7	73.0	64.8	64.1	64.8	66.0	69.2	71.7	71.1
52.5°	1774.4	385.9	85.7	63.5	55.3	56.5	57.1	56.5	53.9	50.1	48.9
54°	1820.2	387.8	80.0	59.0	50.8	52.6	52.1	48.9	42.6	38.7	36.8
55°	1856.9	389.6	76.8	55.8	48.3	48.9	49.5	43.1	34.9	31.1	29.9
57.5°	1929.3	385.3	69.2	48.9	42.6	39.9	39.4	28.6	19.0	16.5	15.2
60°	1893.2	347.8	62.8	41.9	36.2	32.4	26.7	15.9	9.5	7.0	7.0
62.5°	1751.0	295.1	55.8	34.2	29.9	24.7	14.0	8.9	4.5	2.5	1.9
65°	1566.3	248.2	50.1	27.2	23.5	15.9	7.7	5.7	1.9	0.0	0.0
67.5°	1164.5	184.0	42.6	21.6	17.7	10.2	5.0	3.2	0.7	0.0	0.0
70°	539.4	112.4	36.2	16.5	12.7	7.7	3.8	1.9	0.0	0.0	0.0
72.5°	154.8	70.5	29.9	12.0	8.9	6.3	3.2	1.3	0.7	0.0	0.0
75°	53.9	56.5	22.2	8.9	7.0	4.5	2.5	1.3	0.7	0.0	0.0
77.5°	32.4	45.7	14.0	7.7	5.7	3.8	2.5	1.3	0.7	0.7	0.0
80°	18.4	30.4	8.9	6.3	5.0	3.2	1.9	1.3	0.7	0.7	0.0
82.5°	10.2	14.6	7.0	5.7	4.5	3.2	1.9	1.3	0.7	0.7	0.7
85°	8.2	7.7	5.7	5.0	3.8	2.5	1.9	0.7	0.0	0.0	0.0
87.5°	6.3	5.0	5.0	5.0	3.8	2.5	1.9	0.7	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)