

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: P458662

Luminaire Tested: **GALN-SA2B-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10764 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

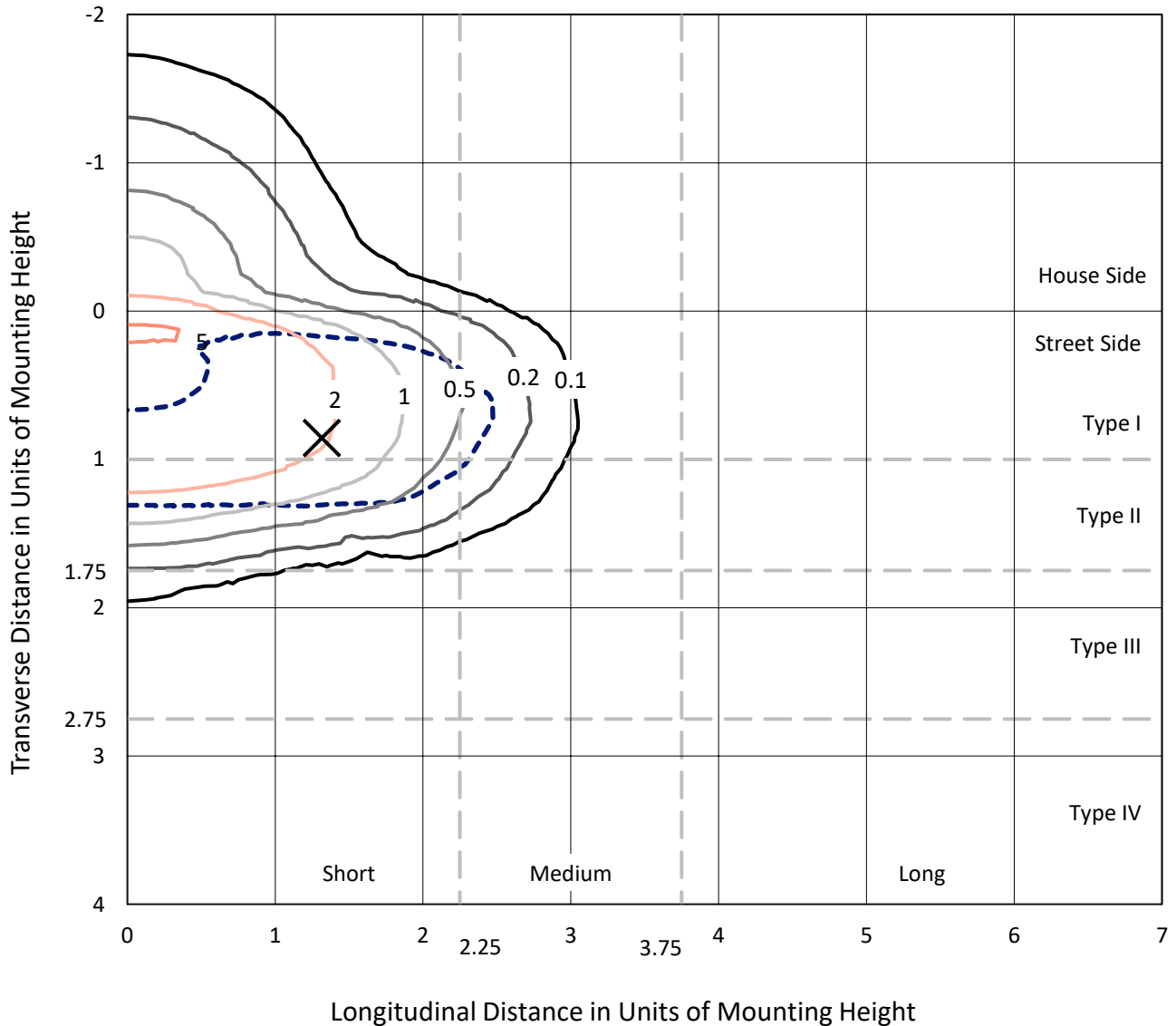
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

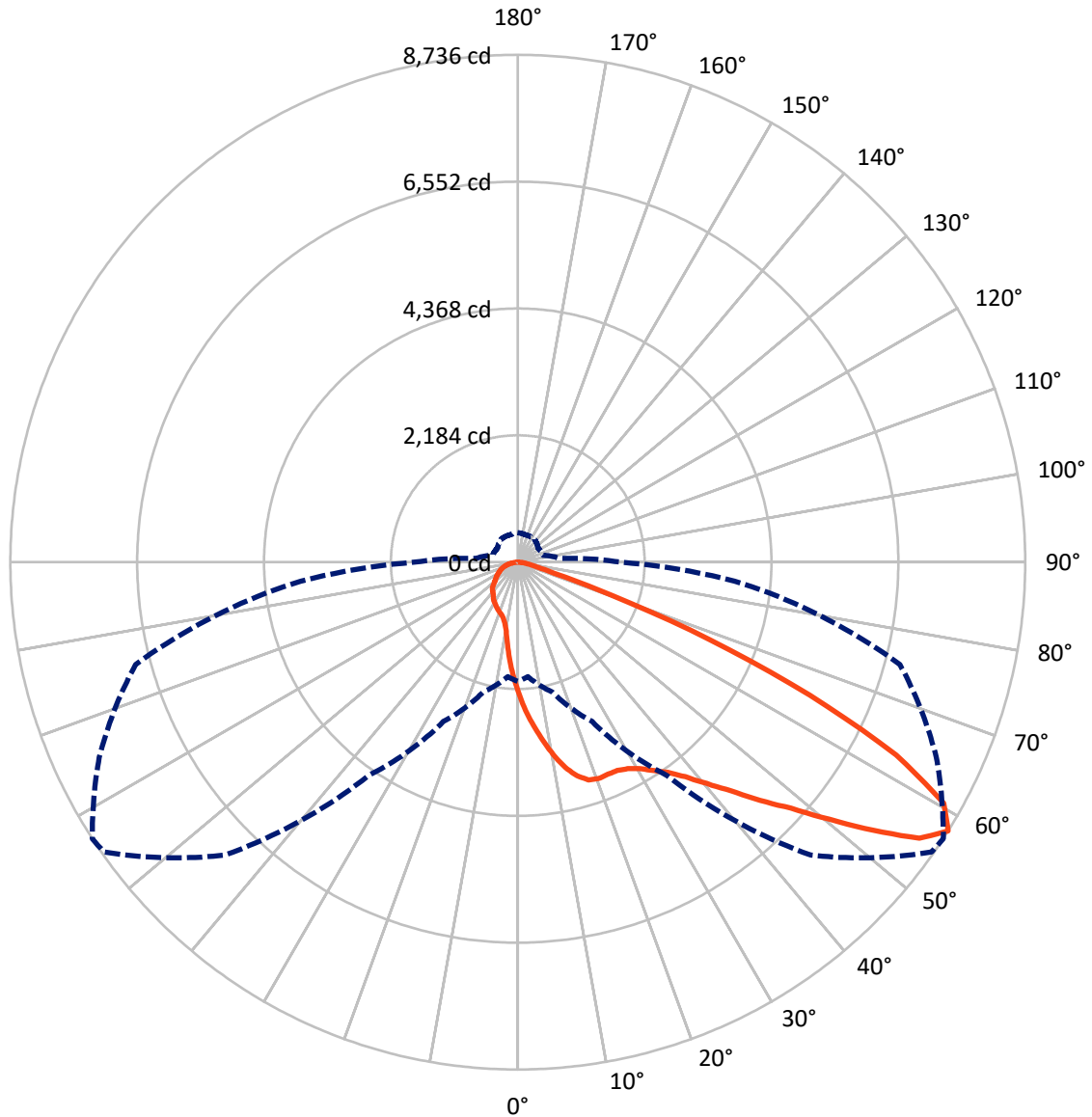
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1636.9	0.0	1636.9
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	9127.1	0.0	9127.1
	% Fixture	84.8	0.0	84.8
Total	Lumens	10764.0	0.0	10764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.3	2.0
10°-20°	640.5	6.0
20°-30°	1063.6	9.9
30°-40°	1602.1	14.9
40°-50°	2405.4	22.3
50°-60°	2696.1	25.0
60°-70°	1577.9	14.7
70°-80°	466.7	4.3
80°-90°	94.3	0.9
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°	10764.0	100.0
0°-180°	10764.0	100.0

Coefficient of Utilization



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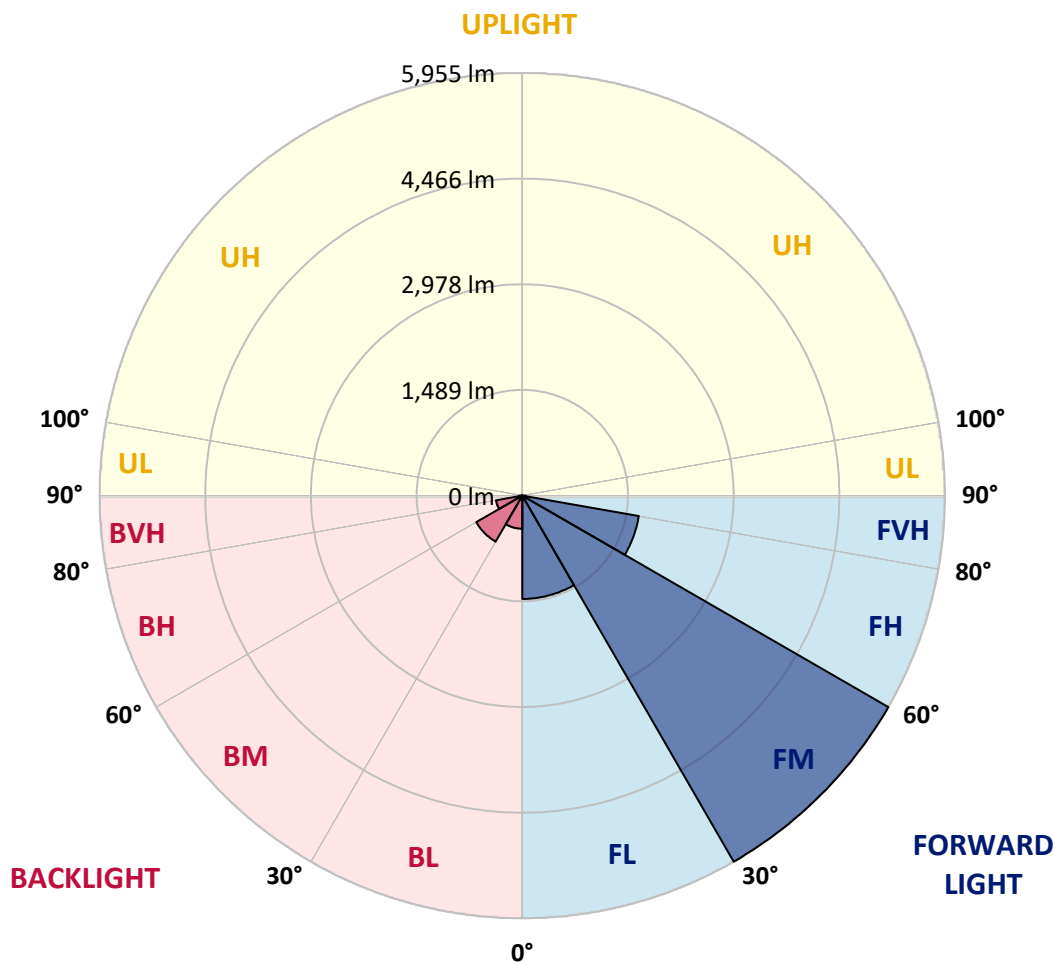
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1455.0	13.5			
FM (30°-60°)	5955.1	55.3			
FH (60°-80°)	1668.0	15.5			G1/1800
FVH (80°-90°)	48.9	0.5			G1/100
BL (0°-30°)	466.4	4.3	B1/500		
BM (30°-60°)	748.5	7.0	B1/1000		
BH (60°-80°)	376.6	3.5	B1/500		G1/500
BVH (80°-90°)	45.4	0.4			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2261.4	2261.4	2261.4	2261.4	2261.4	2261.4	2261.4	2261.4	2261.4	2261.4	2261.4
2.5°	2809.9	2779.3	2755.2	2733.9	2706.2	2631.4	2556.6	2555.4	2495.9	2404.0	2309.7
5°	3267.8	3226.5	3231.8	3165.8	3099.8	2991.4	2832.9	2824.7	2698.0	2525.9	2351.0
7.5°	3565.9	3566.5	3550.0	3512.3	3441.0	3317.8	3138.1	3097.5	2921.3	2660.3	2398.1
10°	3550.6	3566.5	3594.2	3626.6	3648.4	3587.7	3423.9	3374.4	3145.2	2822.9	2450.5
12.5°	3346.7	3371.5	3410.9	3492.3	3623.6	3723.8	3667.8	3627.8	3404.5	2984.9	2508.3
15°	3219.5	3234.2	3256.0	3310.8	3452.2	3692.0	3836.9	3815.7	3649.0	3168.2	2573.1
17.5°	3180.6	3195.3	3202.4	3235.9	3336.7	3582.4	3903.5	3941.2	3865.8	3336.7	2638.5
20°	3219.5	3226.5	3226.5	3246.6	3325.5	3518.2	3900.6	3976.6	4043.8	3538.8	2699.8
22.5°	3321.4	3324.3	3320.2	3327.3	3386.2	3535.9	3872.9	3967.2	4187.5	3710.3	2747.5
25°	3487.0	3491.7	3464.6	3448.1	3491.1	3613.6	3888.2	3974.8	4300.1	3874.1	2779.3
27.5°	3674.9	3680.8	3647.8	3609.5	3629.5	3709.7	3948.3	4026.1	4384.3	4035.5	2799.3
30°	3905.3	3907.6	3852.3	3806.3	3793.3	3852.9	4050.8	4123.3	4489.2	4225.8	2829.4
32.5°	4141.0	4158.7	4087.4	4022.5	4000.7	4019.0	4202.3	4272.4	4614.1	4430.3	2877.7
35°	4461.5	4464.5	4379.0	4300.1	4228.2	4251.7	4396.1	4446.8	4786.8	4666.6	2946.1
37.5°	4861.6	4888.7	4770.8	4623.5	4535.2	4501.0	4630.6	4686.0	5028.9	4956.4	3049.2
40°	5305.8	5315.9	5215.1	5123.2	4961.7	4862.8	4952.3	5012.4	5327.6	5302.3	3168.8
42.5°	5585.1	5606.9	5614.6	5605.2	5483.8	5317.6	5351.8	5380.1	5681.2	5627.0	3291.3
45°	5679.4	5711.8	5821.4	6053.6	6066.5	5902.7	5823.2	5850.3	6066.5	5954.6	3408.6
47.5°	5523.3	5578.7	5780.8	6256.8	6613.3	6625.7	6385.9	6326.4	6417.7	6226.2	3493.4
50°	5119.7	5131.4	5440.8	6130.2	6869.6	7316.8	7068.8	6958.0	6751.2	6427.1	3551.8
52.5°	4495.1	4508.6	4767.9	5541.5	6711.7	7800.0	7867.7	7669.8	7090.0	6583.3	3590.1
55°	3336.7	3415.1	3700.2	4448.0	5963.4	7754.6	8502.9	8390.4	7499.5	6707.0	3650.2
57.5°	2051.6	1979.8	2318.0	3026.2	4485.1	7131.2	8699.1	8735.6	7950.2	6810.7	3750.9
60°	943.9	958.1	1097.7	1560.8	2733.9	5578.7	8193.6	8424.5	8199.5	6807.2	3776.3
62.5°	650.5	637.5	602.2	685.3	1246.8	3528.2	6920.9	7312.1	7699.8	6595.6	3675.5
65°	581.6	568.6	500.2	477.3	572.7	1537.8	5031.3	5525.0	6483.1	6061.8	3424.5
67.5°	543.3	525.6	454.9	410.1	408.9	612.2	2966.7	3561.2	4808.6	5125.0	2967.3
70°	503.2	489.0	418.9	369.4	348.2	384.8	1303.9	1706.9	3122.2	3693.2	2311.5
72.5°	463.1	446.6	383.6	330.5	302.9	288.1	499.7	649.9	1764.1	2214.3	1417.1
75°	404.8	396.5	342.9	299.3	269.3	232.7	317.0	361.8	843.8	1017.0	711.2
77.5°	354.1	345.3	304.6	261.6	239.8	189.1	225.1	245.7	355.9	412.4	321.1
80°	259.3	268.1	256.9	231.0	213.9	148.5	151.4	168.5	211.5	233.9	196.2
82.5°	164.4	180.9	198.0	177.9	162.0	117.3	104.9	111.4	144.4	153.2	87.2
85°	68.9	70.1	114.9	108.4	92.5	69.5	63.0	66.6	77.2	80.7	40.7
87.5°	26.5	25.9	40.7	37.7	28.9	20.0	20.0	22.4	30.6	28.3	13.0
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°	2261.4	2261.4	2261.4	2261.4	2261.4	2261.4	2261.4	2261.4	2261.4	2261.4	2261.4
2.5°	2269.1	2227.2	2144.1	2041.0	1965.6	1880.8	1805.9	1752.3	1732.3	1722.9	1705.2
5°	2267.3	2184.8	2012.7	1832.4	1687.5	1539.0	1413.5	1332.2	1325.1	1270.9	1265.6
7.5°	2267.9	2141.8	1867.8	1602.7	1381.7	1229.7	1126.0	1098.9	1066.5	1058.2	1062.3
10°	2269.6	2087.0	1712.2	1375.2	1161.3	1061.8	1022.9	1012.3	1013.4	1017.0	1017.6
12.5°	2272.0	2034.0	1550.8	1202.6	1037.6	996.4	992.2	1001.7	1011.7	1019.3	1021.1
15°	2274.9	1973.3	1393.5	1063.5	975.7	972.2	985.8	1001.7	1015.8	1027.0	1028.8
17.5°	2271.4	1902.6	1261.5	978.1	941.6	958.6	981.0	1001.1	1014.0	1024.6	1025.8
20°	2263.2	1823.6	1134.2	918.0	920.3	948.0	972.2	991.1	1005.2	1010.5	1014.6
22.5°	2231.3	1729.3	1023.5	871.4	895.0	933.3	962.2	973.4	957.5	946.3	949.2
25°	2177.1	1606.8	920.3	833.7	872.0	912.7	942.1	915.0	902.1	897.4	899.7
27.5°	2109.4	1472.4	842.6	794.3	842.6	889.7	881.5	876.7	870.9	863.2	865.0
30°	2036.3	1341.0	776.6	763.6	810.8	837.9	841.4	849.1	842.6	830.8	835.5
32.5°	1968.6	1217.3	726.5	737.7	788.4	784.2	810.8	819.6	789.5	750.1	751.8
35°	1910.8	1102.4	688.8	712.4	750.1	751.8	778.3	747.7	715.3	696.4	697.6
37.5°	1867.2	1012.9	664.0	690.6	701.2	723.6	709.4	693.5	689.4	676.4	677.0
40°	1841.3	934.5	648.1	673.5	671.7	687.0	641.7	657.6	663.5	659.3	659.9
42.5°	1815.4	879.1	631.6	649.9	649.3	619.3	609.2	622.8	638.1	639.9	638.7
45°	1794.7	836.1	614.5	614.0	625.7	578.6	575.7	583.9	605.7	616.3	615.7
47.5°	1771.8	800.1	588.6	572.1	575.7	553.3	548.6	552.1	578.6	595.7	600.4
50°	1742.9	764.2	556.2	533.8	519.1	529.7	530.9	531.5	558.0	577.4	581.6
52.5°	1719.9	737.1	519.1	502.6	484.9	508.5	517.3	518.5	534.4	550.3	553.3
55°	1733.5	721.8	482.6	470.8	454.9	486.7	503.8	506.1	509.7	521.5	523.2
57.5°	1774.1	725.3	453.1	437.8	426.0	460.8	489.6	491.4	489.0	503.2	505.5
60°	1786.5	723.6	431.3	401.3	394.2	433.1	469.0	472.5	472.0	492.6	496.7
62.5°	1734.6	701.2	409.5	370.6	365.9	404.8	440.1	454.3	457.2	486.7	492.0
65°	1612.7	655.2	380.6	338.2	338.2	374.7	412.4	431.9	440.1	479.6	485.5
67.5°	1451.8	601.0	351.2	310.5	309.3	345.9	383.0	403.0	416.0	469.6	473.1
70°	1204.9	527.9	314.6	280.5	280.5	313.5	347.0	371.2	390.1	450.7	450.7
72.5°	825.5	439.0	270.4	246.3	246.9	277.5	311.7	338.8	361.2	413.0	414.2
75°	522.0	342.9	222.1	209.8	212.1	241.0	276.3	304.6	349.4	408.3	410.1
77.5°	277.5	241.0	176.8	173.8	176.8	203.3	242.8	281.6	350.6	354.1	348.2
80°	179.7	170.9	139.6	133.8	134.9	163.8	216.2	267.5	281.6	285.2	272.2
82.5°	97.8	108.4	99.0	93.1	93.1	127.9	184.4	212.7	202.1	167.9	160.3
85°	41.8	50.7	51.3	44.8	43.0	79.0	123.7	116.1	107.8	103.1	101.9
87.5°	11.8	16.5	16.5	12.4	9.4	21.8	24.7	7.1	0.0	0.6	1.2
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)