

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: P383043

Luminaire Tested: **GLEON-SA3D-735-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383043  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3D-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22199.7 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

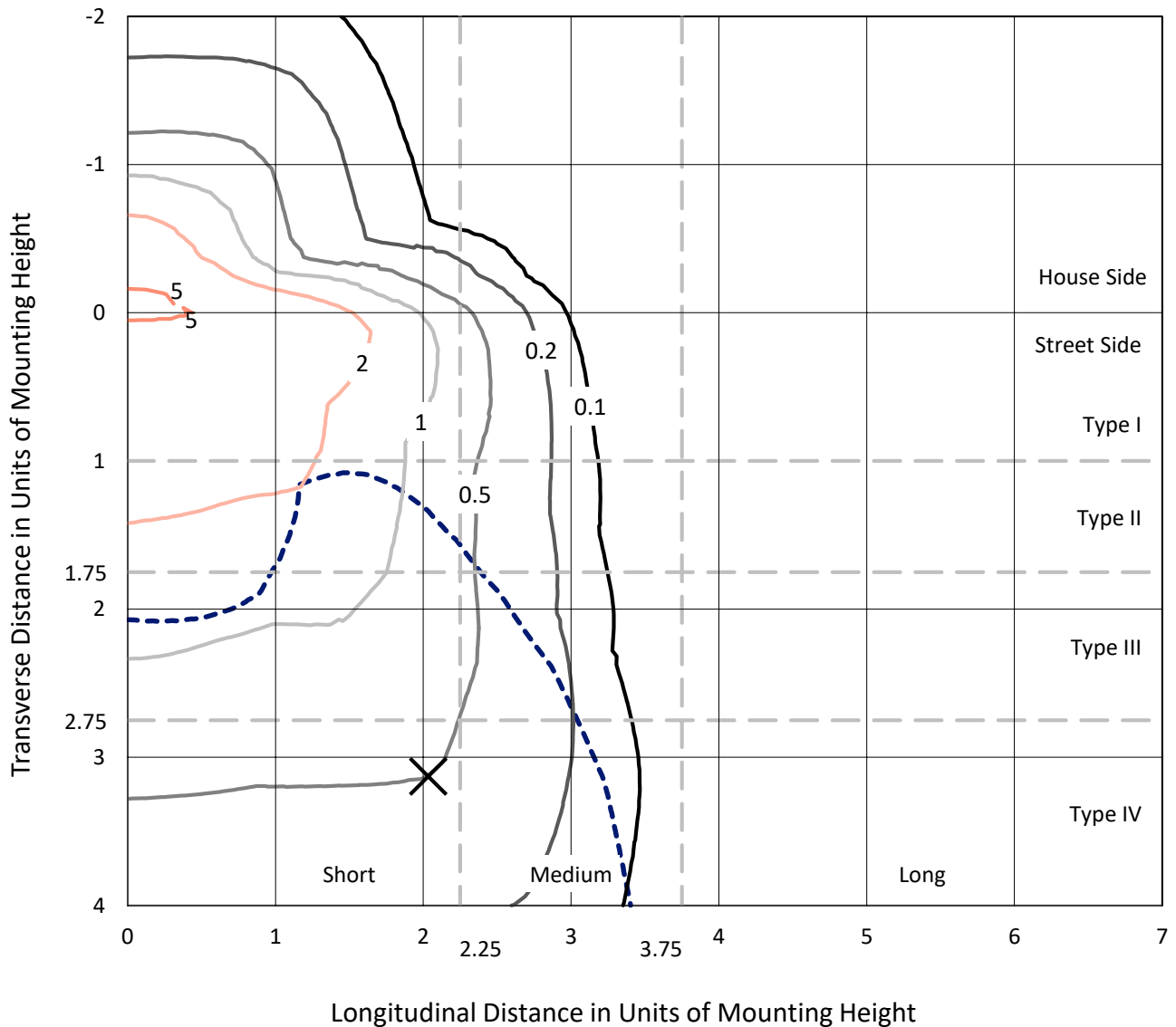
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

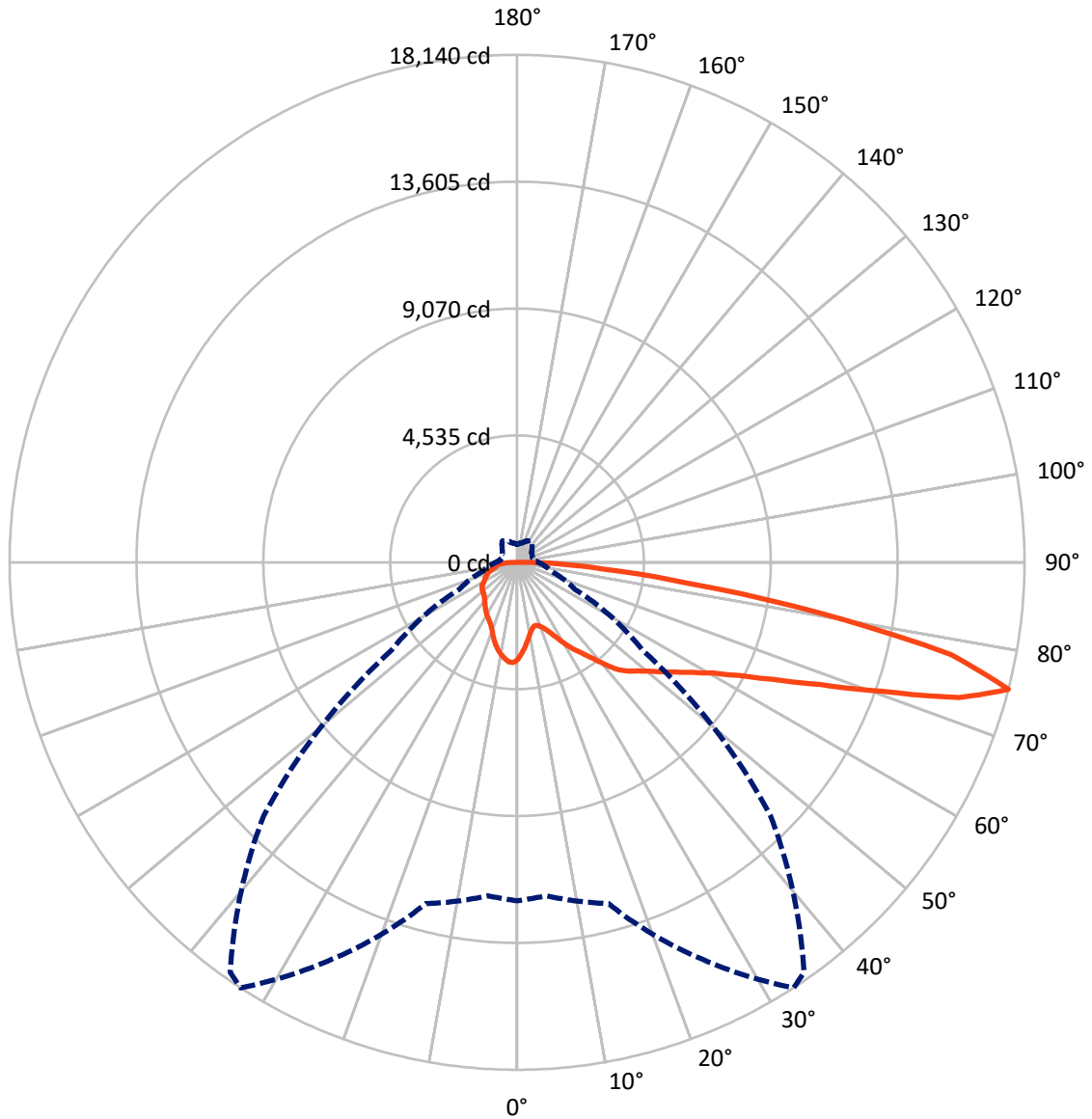
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4766.9	0.0	4766.9
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	17432.9	0.0	17432.9
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	22199.7	0.0	22199.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.8	1.4
10°-20°	849.9	3.8
20°-30°	1388.1	6.3
30°-40°	2067.2	9.3
40°-50°	2964.9	13.4
50°-60°	4070.3	18.3
60°-70°	5095.9	23.0
70°-80°	4610.0	20.8
80°-90°	839.7	3.8
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°	22199.7	100.0
0°-180°	22199.7	100.0

**Coefficient of Utilization**

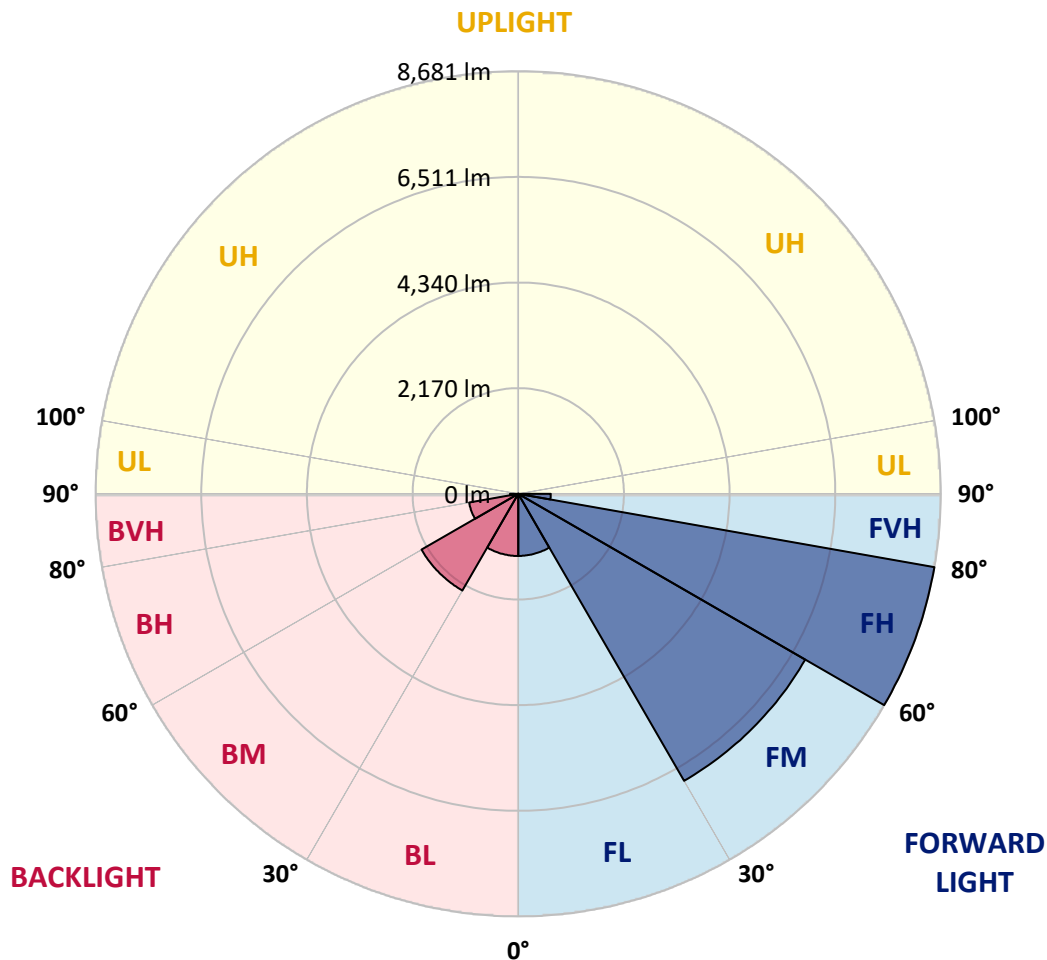


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1275.0	5.7			
FM (30°-60°)	6808.2	30.7			
FH (60°-80°)	8680.9	39.1			G4/12000
FVH (80°-90°)	668.8	3.0			G4/750
BL (0°-30°)	1276.8	5.8	B3/2500		
BM (30°-60°)	2294.2	10.3	B2/2500		
BH (60°-80°)	1025.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	171.0	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9
2.5°	3222.2	3210.0	3233.0	3236.0	3255.9	3263.7	3291.3	3334.2	3369.5	3410.1	3446.9
5°	2930.1	2921.6	2953.8	2976.9	3020.5	3039.0	3104.2	3195.4	3276.7	3368.8	3452.3
7.5°	2652.5	2647.9	2684.0	2736.0	2786.7	2812.0	2924.7	3057.3	3193.1	3341.8	3469.9
10°	2418.6	2417.1	2451.6	2503.0	2577.3	2605.7	2751.4	2926.3	3116.4	3321.2	3499.8
12.5°	2287.5	2292.8	2308.9	2351.9	2420.9	2449.3	2611.1	2816.6	3052.0	3314.3	3543.5
15°	2319.6	2328.1	2300.5	2299.0	2348.1	2370.3	2522.2	2738.4	3006.0	3325.8	3607.2
17.5°	2457.0	2458.4	2385.6	2339.6	2369.5	2381.0	2494.5	2693.9	2979.2	3351.8	3687.0
20°	2650.2	2646.3	2517.5	2440.8	2457.0	2460.0	2533.6	2694.7	2976.9	3397.1	3790.5
22.5°	2906.3	2877.9	2704.7	2600.3	2596.5	2591.9	2634.0	2751.4	3010.6	3470.7	3913.9
25°	3240.7	3213.8	2975.4	2832.7	2802.0	2790.5	2796.7	2872.6	3077.3	3549.7	4052.0
27.5°	3612.5	3565.8	3335.8	3134.1	3070.4	3054.4	3017.5	3043.6	3150.2	3625.6	4216.1
30°	3923.9	3898.6	3697.7	3458.5	3383.3	3360.3	3263.7	3235.3	3255.2	3729.2	4423.1
32.5°	4098.0	4081.1	3959.2	3766.0	3696.2	3664.0	3527.5	3470.7	3423.9	3892.5	4703.8
35°	4308.9	4298.2	4224.5	4084.2	3980.7	3946.9	3841.1	3782.1	3661.6	4117.2	5066.5
37.5°	4577.3	4565.8	4567.3	4453.8	4330.3	4298.9	4229.1	4167.0	3969.9	4412.4	5460.6
40°	4880.9	4858.7	4850.3	4844.9	4766.6	4749.0	4712.2	4627.8	4356.4	4765.1	5849.5
42.5°	5338.0	5259.0	5090.3	5153.9	5231.4	5222.2	5252.1	5130.9	4785.8	5182.3	6229.0
45°	5778.9	5649.3	5357.9	5371.7	5541.1	5592.5	5816.5	5730.6	5251.3	5639.3	6621.6
47.5°	5979.8	5881.6	5634.0	5634.7	5802.7	5909.3	6400.0	6338.7	5740.6	6158.5	7100.9
50°	6204.5	6106.3	5883.9	5967.5	6114.0	6227.5	6963.7	6932.2	6206.0	6726.7	7675.3
52.5°	6449.8	6283.5	6142.3	6291.9	6497.5	6629.3	7528.0	7442.1	6633.2	7298.8	8335.5
55°	6452.9	6407.7	6515.1	6624.7	6932.2	7094.0	8119.3	7892.3	6981.3	7860.9	8873.1
57.5°	6820.2	6746.6	6974.4	7025.0	7426.9	7609.3	8707.5	8284.2	7335.6	8291.8	9163.0
60°	7306.4	7243.5	7429.9	7563.3	8038.8	8282.6	9335.5	8686.8	7613.9	8616.9	9149.1
62.5°	8146.1	8074.8	8072.5	8259.6	8899.9	9183.7	10040.2	9081.7	7724.4	8681.4	8758.8
65°	9375.4	9261.8	9047.9	9136.9	10089.3	10372.2	10827.8	9367.6	7578.7	8336.3	7753.5
67.5°	10571.6	10567.8	10304.8	10487.3	11659.8	11886.7	11724.9	9396.1	7123.9	7134.6	5969.8
70°	11764.0	11779.4	11734.9	12369.8	13781.6	14017.7	12680.4	9015.0	6101.7	5152.4	3576.5
72.5°	12708.8	12705.0	12928.9	14566.1	16535.3	16482.4	13485.6	7860.1	4381.0	2781.3	1709.3
75°	12096.9	11963.4	12630.6	15653.4	18140.3	17881.9	12800.9	5482.9	2273.6	1266.1	920.2
77.5°	7890.0	8016.5	8995.8	12931.2	15867.4	15553.0	9391.5	2558.2	1071.3	830.5	667.2
80°	2857.2	2990.6	4212.3	7324.9	10932.0	10880.7	4624.8	1051.3	724.7	627.3	486.2
82.5°	983.1	1032.2	1661.7	3253.0	6172.2	6402.3	1739.9	597.4	526.8	444.7	332.8
85°	385.8	441.7	760.0	1565.1	3113.3	3136.3	704.7	357.3	366.6	291.4	182.5
87.5°	146.4	177.9	363.5	727.0	1421.7	1305.9	252.3	170.2	208.6	173.3	86.6
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°	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9	3469.9
2.5°	3475.3	3491.4	3525.2	3548.2	3572.7	3579.6	3582.6	3588.8	3594.9	3592.6	3593.4
5°	3496.8	3528.2	3582.6	3605.6	3616.4	3604.2	3580.4	3561.2	3547.4	3539.7	3537.5
7.5°	3532.1	3576.5	3634.8	3631.0	3606.4	3552.0	3490.6	3444.7	3406.3	3392.5	3384.8
10°	3578.8	3631.0	3671.6	3627.9	3556.6	3462.3	3370.2	3298.9	3241.4	3219.1	3215.3
12.5°	3638.6	3691.5	3699.3	3606.4	3488.4	3359.5	3234.5	3140.2	3054.4	3026.7	3020.5
15°	3716.1	3766.0	3718.4	3568.9	3404.0	3230.7	3068.9	2940.8	2850.3	2816.6	2804.3
17.5°	3797.4	3845.0	3722.2	3506.7	3293.6	3078.1	2874.8	2743.8	2640.2	2601.1	2596.5
20°	3894.8	3916.2	3706.2	3417.8	3141.7	2880.3	2666.3	2542.8	2487.6	2460.0	2457.0
22.5°	4015.2	3992.1	3669.3	3297.4	2949.3	2651.7	2477.6	2420.2	2406.4	2400.2	2402.5
25°	4142.5	4071.9	3614.9	3140.2	2706.1	2423.2	2339.6	2355.7	2374.1	2371.8	2371.8
27.5°	4282.8	4153.2	3531.3	2931.6	2437.0	2236.1	2246.1	2305.1	2332.7	2331.9	2331.2
30°	4463.0	4245.2	3424.7	2680.9	2185.5	2104.2	2164.8	2236.8	2274.5	2272.9	2273.6
32.5°	4684.6	4346.4	3279.8	2401.0	2003.8	2006.8	2076.6	2147.9	2191.7	2187.8	2188.6
35°	4943.8	4460.0	3083.4	2124.9	1883.3	1929.3	1984.6	2034.4	2075.9	2070.5	2065.1
37.5°	5226.0	4571.1	2822.7	1878.0	1785.2	1857.3	1903.2	1911.7	1930.9	1917.1	1907.2
40°	5494.4	4656.2	2486.9	1675.6	1686.3	1795.9	1825.8	1792.1	1757.6	1753.0	1739.2
42.5°	5728.3	4684.6	2147.1	1513.8	1582.0	1731.6	1749.9	1679.4	1617.3	1588.1	1575.8
45°	5975.2	4694.5	1830.4	1378.0	1481.5	1674.0	1693.9	1599.7	1512.2	1449.3	1428.6
47.5°	6298.0	4766.6	1584.3	1277.5	1404.9	1635.7	1664.0	1535.9	1422.5	1332.8	1313.6
50°	6720.6	4909.3	1384.2	1200.9	1355.0	1610.4	1642.6	1473.9	1348.9	1240.7	1221.5
52.5°	7189.9	5040.4	1222.4	1138.7	1306.7	1565.8	1614.9	1429.4	1279.9	1155.6	1134.9
55°	7518.1	4940.0	1092.0	1074.4	1243.8	1502.2	1576.6	1391.8	1180.9	1072.8	1054.4
57.5°	7580.9	4596.4	993.0	1007.7	1167.9	1422.5	1517.6	1308.3	1127.3	1036.7	1017.6
60°	7409.2	4117.9	919.4	946.3	1086.7	1322.1	1407.1	1249.2	1075.8	998.4	982.3
62.5°	6977.5	3627.9	865.0	891.0	1010.7	1220.0	1338.2	1187.1	1023.8	954.7	938.6
65°	6105.5	3045.9	812.9	842.0	940.1	1131.8	1276.0	1129.6	972.3	919.4	904.1
67.5°	4608.7	2281.4	763.8	789.9	877.2	1055.2	1208.5	1072.8	922.5	888.8	870.3
70°	2713.9	1428.6	707.8	735.4	811.3	975.4	1136.5	1010.7	860.4	845.1	821.3
72.5°	1263.0	859.6	644.2	671.0	728.5	868.9	1043.7	929.4	786.8	753.1	720.8
75°	753.8	628.8	569.0	592.7	633.5	755.3	927.1	846.6	717.0	672.5	638.8
77.5°	563.6	480.8	486.2	511.5	544.5	661.0	821.3	781.4	663.4	628.8	605.8
80°	405.7	365.0	396.5	424.0	458.6	601.2	786.8	722.3	599.6	553.6	532.2
82.5°	270.7	262.2	298.3	326.7	360.4	526.0	739.3	632.6	512.3	453.9	406.4
85°	149.5	158.0	200.9	213.1	242.3	370.4	605.8	508.4	385.8	310.6	296.8
87.5°	62.1	72.8	108.2	104.3	128.8	220.9	398.8	306.8	245.4	183.2	142.6
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)