

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: P382966

Luminaire Tested: **GLEON-SA3B-735-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382966  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3B-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 16673.8 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

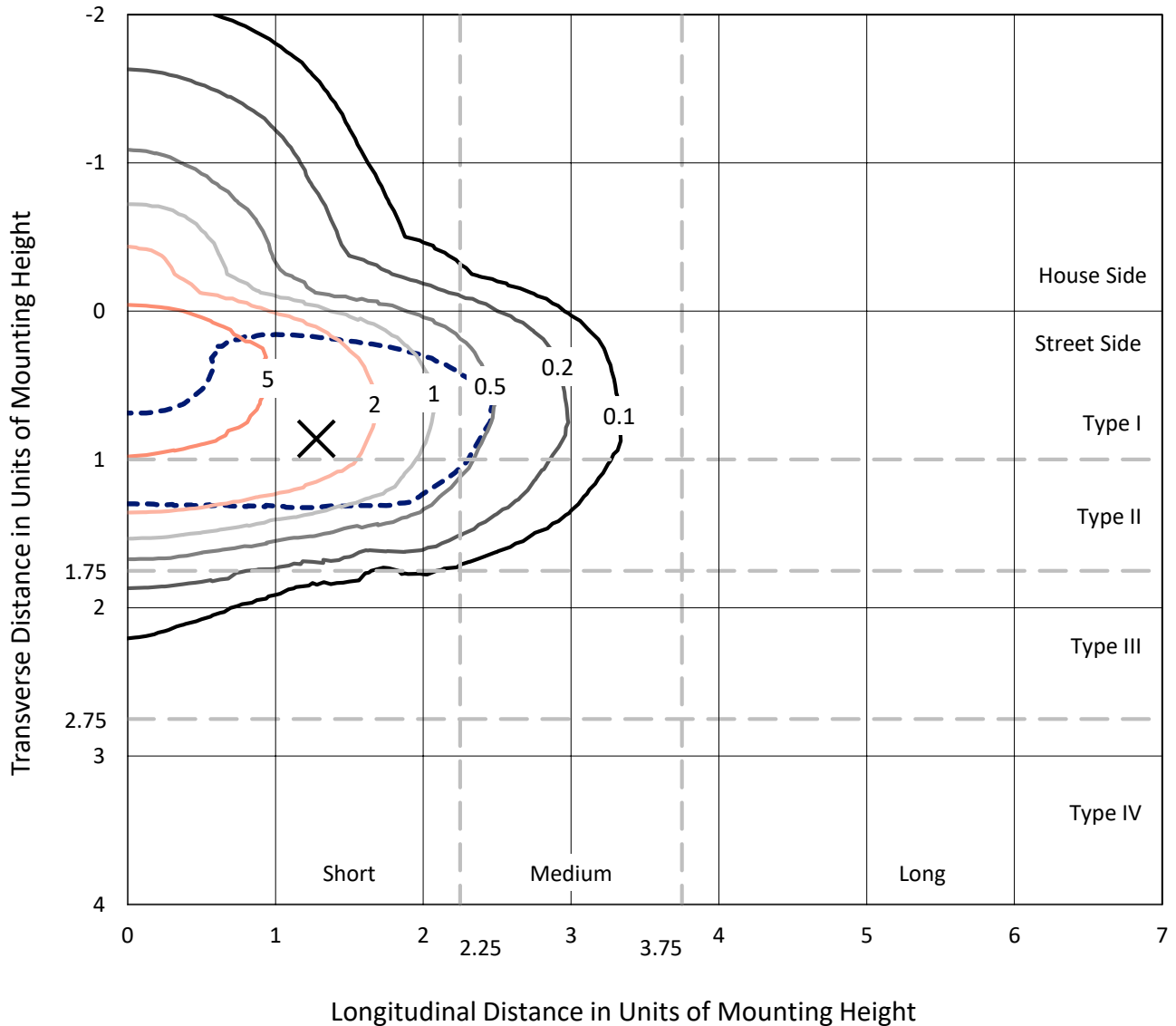
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

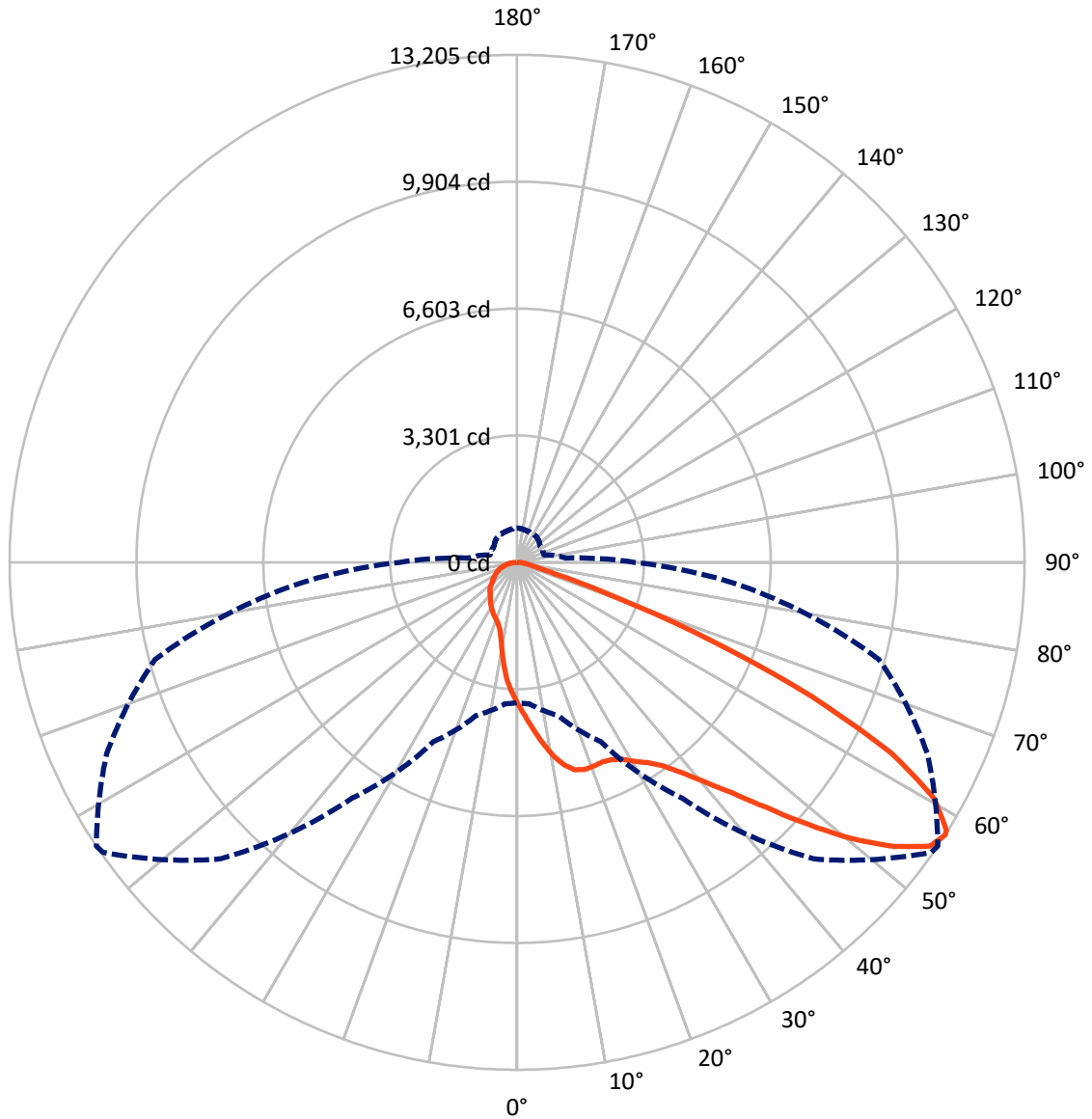
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2874.2	0.0	2874.2
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	13799.6	0.0	13799.6
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	16673.8	0.0	16673.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.3	2.1
10°-20°	998.8	6.0
20°-30°	1626.8	9.8
30°-40°	2432.0	14.6
40°-50°	3688.7	22.1
50°-60°	4134.4	24.8
60°-70°	2442.0	14.6
70°-80°	800.1	4.8
80°-90°	197.7	1.2
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°	16673.8	100.0
0°-180°	16673.8	100.0

**Coefficient of Utilization**



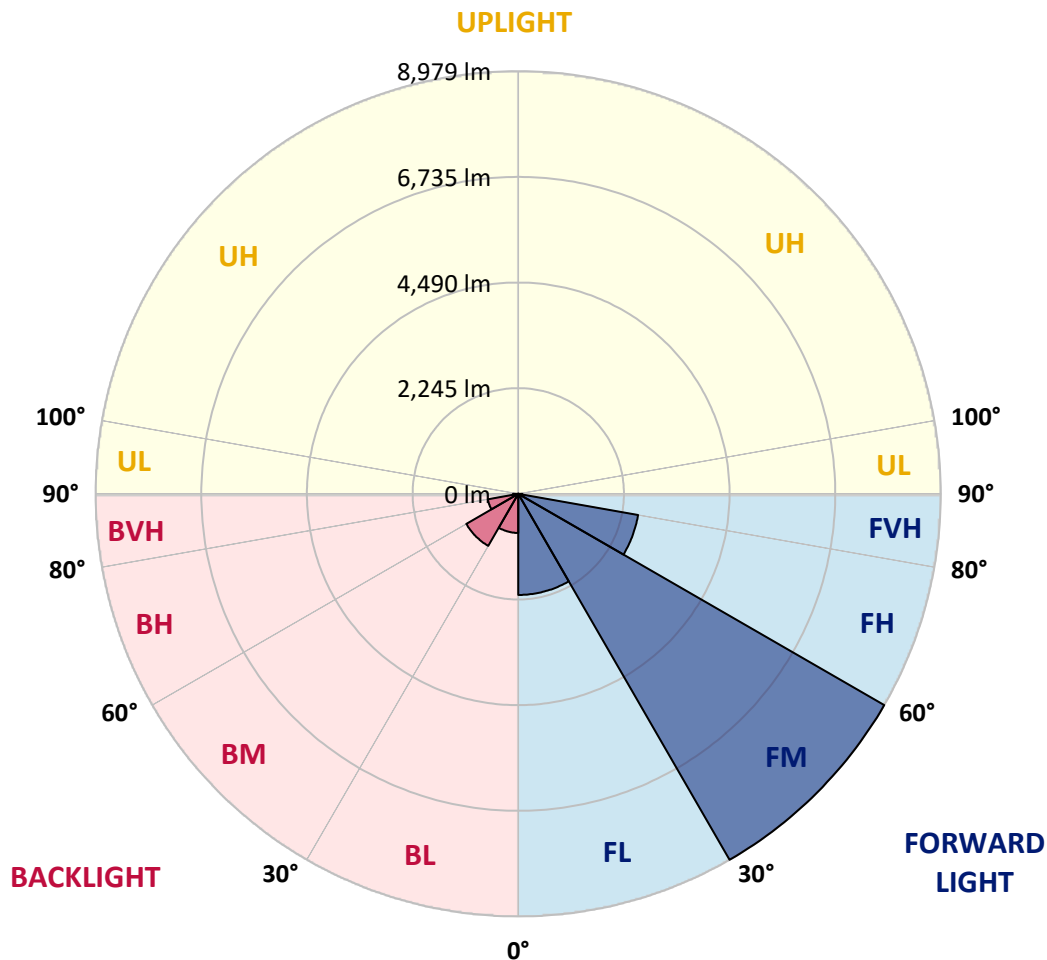
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2147.8	12.9			
FM (30°-60°)	8979.4	53.9			
FH (60°-80°)	2585.3	15.5			G2/5000
FVH (80°-90°)	87.0	0.5			G1/100
BL (0°-30°)	831.1	5.0	B2/1000		
BM (30°-60°)	1275.8	7.7	B2/2500		
BH (60°-80°)	656.7	3.9	B2/1000		G2/1000
BVH (80°-90°)	110.6	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3698.2	3698.2	3698.2	3698.2	3698.2	3698.2	3698.2	3698.2	3698.2	3698.2	3698.2
2.5°	4246.6	4285.6	4268.4	4208.8	4163.0	4098.3	4026.1	4004.3	3928.1	3842.6	3740.1
5°	4918.8	4899.3	4871.2	4778.4	4680.4	4566.4	4385.3	4356.7	4187.0	3993.9	3789.9
7.5°	5301.5	5299.9	5283.2	5228.8	5139.4	4990.4	4772.1	4738.3	4482.1	4171.6	3855.3
10°	5246.0	5242.0	5269.5	5326.2	5353.1	5322.2	5138.2	5104.4	4789.8	4368.1	3930.9
12.5°	4930.2	4932.5	4976.7	5095.8	5258.0	5452.8	5423.0	5406.4	5109.1	4590.5	4022.6
15°	4684.4	4689.6	4724.5	4828.2	5019.6	5373.2	5596.1	5601.9	5417.9	4835.7	4129.7
17.5°	4576.7	4587.6	4603.6	4676.4	4851.8	5214.4	5637.4	5668.3	5688.3	5090.2	4232.9
20°	4611.1	4621.4	4626.0	4672.4	4816.2	5118.2	5608.7	5664.3	5895.8	5329.7	4336.0
22.5°	4765.2	4771.5	4774.4	4786.4	4898.2	5145.7	5589.8	5648.3	6045.9	5544.5	4414.0
25°	5020.8	5016.2	4997.8	4982.4	5057.5	5254.6	5633.3	5689.0	6168.0	5739.4	4465.0
27.5°	5326.8	5321.0	5285.5	5243.1	5286.1	5424.2	5758.8	5803.0	6277.4	5921.6	4490.7
30°	5694.1	5679.2	5612.1	5561.7	5578.3	5678.6	5965.7	6005.8	6446.5	6128.5	4516.0
32.5°	6118.7	6102.7	6005.8	5922.1	5922.1	6005.8	6178.9	6212.1	6589.7	6362.2	4556.7
35°	6650.4	6630.4	6504.3	6364.0	6324.4	6366.8	6469.4	6492.9	6847.5	6656.7	4630.5
37.5°	7277.3	7250.4	7087.1	6899.1	6812.6	6810.4	6884.2	6932.4	7259.6	7043.5	4756.0
40°	7906.0	7887.0	7744.3	7596.5	7426.9	7372.5	7486.5	7501.4	7798.2	7523.7	4916.5
42.5°	8391.8	8388.4	8362.0	8381.5	8207.9	8097.9	8187.3	8199.3	8456.0	8043.4	5087.3
45°	8648.6	8654.3	8782.1	9065.2	9129.4	9049.1	9093.2	9096.7	9207.8	8567.7	5243.7
47.5°	8442.8	8472.6	8795.9	9429.0	9954.4	10220.9	10147.5	10190.0	9936.7	9018.1	5366.3
50°	7641.2	7677.9	8228.0	9266.8	10339.5	11354.9	11316.5	11306.8	10524.6	9348.2	5432.8
52.5°	6648.2	6676.8	7130.6	8423.9	10057.1	11981.8	12334.2	12283.8	11047.2	9595.2	5445.4
55°	5136.0	5180.6	5615.6	6741.5	8914.4	11742.3	13082.6	13037.3	11523.4	9724.7	5430.5
57°	3651.3	3698.2	4130.3	5145.1	7499.1	10913.1	13157.1	13205.2	11780.6	9746.5	5447.1
57.5°	3258.2	3306.3	3734.4	4720.0	7057.9	10613.4	13092.9	13173.1	11827.1	9743.1	5456.3
60°	1640.5	1658.9	1931.7	2634.7	4461.6	8580.4	12255.7	12462.5	11868.9	9574.5	5495.9
62.5°	1020.0	1006.8	998.2	1213.6	2170.6	5690.1	10528.1	10926.3	11068.4	9166.5	5400.1
65°	896.8	872.1	777.6	760.4	958.7	2763.6	7928.3	8423.9	9358.0	8523.7	5172.0
67.5°	842.3	818.3	711.7	647.5	648.1	1095.6	4922.2	5480.4	7289.9	7436.6	4634.0
70°	786.2	764.4	664.7	589.0	551.8	606.8	2264.6	2688.0	4752.0	5845.4	3873.0
72.5°	713.9	699.1	604.6	526.6	487.1	454.4	867.0	1024.0	2751.0	3925.7	2689.8
75°	638.3	624.6	543.8	469.3	421.2	357.5	488.2	526.0	1397.6	2008.4	1324.3
77.5°	555.3	547.2	483.7	414.9	376.4	296.2	345.5	363.9	599.4	861.2	664.1
80°	441.8	457.3	422.9	369.6	334.1	237.3	244.7	256.7	349.0	420.6	377.1
82.5°	287.7	314.6	331.2	300.2	275.1	186.8	175.9	181.1	227.5	256.7	163.9
85°	119.8	134.7	217.7	196.6	182.8	136.4	118.0	120.4	140.9	146.2	67.1
87.5°	53.3	56.7	95.7	90.0	77.3	46.9	50.4	55.1	75.1	71.1	25.8
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°	3698.2	3698.2	3698.2	3698.2	3698.2	3698.2	3698.2	3698.2	3698.2	3698.2	3698.2
2.5°	3701.7	3653.5	3571.1	3480.0	3405.5	3345.8	3285.7	3244.4	3196.3	3170.5	3157.3
5°	3704.6	3610.0	3436.4	3258.2	3098.9	2953.4	2814.7	2708.1	2608.3	2554.5	2539.6
7.5°	3716.6	3574.4	3293.7	3000.3	2717.2	2458.8	2259.4	2134.5	2044.6	2004.4	1993.0
10°	3726.4	3532.6	3117.2	2682.9	2297.8	2035.9	1881.3	1811.3	1780.4	1775.3	1770.0
12.5°	3749.3	3489.7	2931.6	2351.7	1971.7	1790.7	1736.8	1732.2	1740.8	1753.5	1753.5
15°	3785.3	3447.3	2719.6	2067.5	1764.4	1700.7	1711.6	1736.8	1760.3	1779.8	1782.7
17.5°	3811.7	3395.1	2491.5	1840.0	1653.7	1670.9	1709.9	1745.4	1769.5	1788.4	1790.1
20°	3830.6	3314.4	2247.9	1666.4	1590.2	1643.4	1692.2	1723.6	1740.2	1759.1	1762.0
22.5°	3820.9	3206.0	2031.9	1542.0	1538.5	1603.3	1649.7	1687.5	1674.9	1656.6	1668.6
25°	3773.9	3057.1	1809.6	1449.2	1484.1	1549.4	1606.7	1581.5	1539.1	1531.1	1535.7
27.5°	3690.2	2866.8	1603.8	1363.2	1421.1	1499.6	1496.2	1470.9	1456.0	1445.8	1452.0
30°	3600.2	2660.5	1424.0	1288.1	1351.2	1416.0	1402.7	1402.2	1387.3	1370.7	1378.7
32.5°	3511.5	2453.0	1281.3	1226.3	1298.5	1307.1	1335.7	1344.3	1315.1	1280.1	1277.8
35°	3434.1	2257.1	1173.0	1170.1	1234.9	1236.0	1277.8	1265.8	1193.0	1156.9	1156.9
37.5°	3376.2	2061.7	1090.5	1119.7	1151.2	1181.0	1202.2	1152.3	1140.3	1120.3	1119.7
40°	3351.0	1889.8	1038.9	1081.2	1092.1	1130.0	1075.6	1095.0	1100.8	1090.5	1090.5
42.5°	3324.7	1740.2	994.1	1052.1	1050.3	1045.2	1017.7	1042.9	1065.8	1066.3	1064.7
45°	3298.3	1611.3	954.6	989.6	1013.7	958.1	963.2	990.1	1022.3	1033.7	1033.7
47.5°	3269.1	1509.3	918.5	923.7	961.0	923.7	919.7	940.3	978.1	996.5	1000.5
50°	3204.9	1417.6	877.3	865.9	876.1	888.8	892.1	901.9	943.8	973.0	979.9
52.5°	3116.0	1335.7	824.6	812.5	812.5	860.1	876.1	879.0	914.5	949.5	956.3
55°	3042.2	1283.6	770.1	767.9	765.5	829.7	857.2	861.8	886.5	913.9	917.4
57°	3047.3	1279.6	728.3	730.6	730.1	798.8	839.5	849.2	861.8	885.3	889.3
57.5°	3050.2	1282.4	719.2	720.3	719.7	790.2	834.3	845.2	855.0	879.6	883.6
60°	3093.1	1289.8	681.9	669.3	672.1	744.3	805.1	818.8	825.2	857.8	863.0
62.5°	3029.6	1256.7	652.1	621.7	621.7	696.2	764.4	786.2	795.9	840.1	848.6
65°	2845.0	1163.2	617.2	567.9	573.6	648.1	715.7	751.2	766.1	821.2	830.3
67.5°	2560.3	1054.9	579.9	519.7	525.5	597.7	665.3	703.7	727.2	800.5	807.9
70°	2189.5	922.6	529.5	468.8	475.6	542.6	605.7	649.2	684.2	781.0	783.3
72.5°	1614.2	756.4	459.0	412.6	420.0	478.4	545.5	595.9	643.0	732.3	731.2
75°	959.8	591.3	381.1	355.9	361.0	415.5	491.1	552.4	622.8	713.4	724.3
77.5°	582.2	445.3	310.6	298.0	304.2	359.9	452.1	517.5	614.3	672.8	669.3
80°	351.8	318.0	248.1	240.1	246.4	307.7	418.3	491.1	536.9	574.8	574.8
82.5°	184.0	194.2	182.2	175.9	184.5	249.8	380.4	428.6	474.4	407.5	380.4
85°	75.1	101.4	110.6	110.0	115.1	173.1	328.4	366.8	306.0	290.5	297.3
87.5°	25.2	42.9	53.8	46.4	48.7	108.9	227.5	177.1	210.3	146.7	139.3
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)