

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: P531023

Luminaire Tested: **GALN-SA6B-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531023  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-735-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20789 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

Input Watts (W): 243  
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

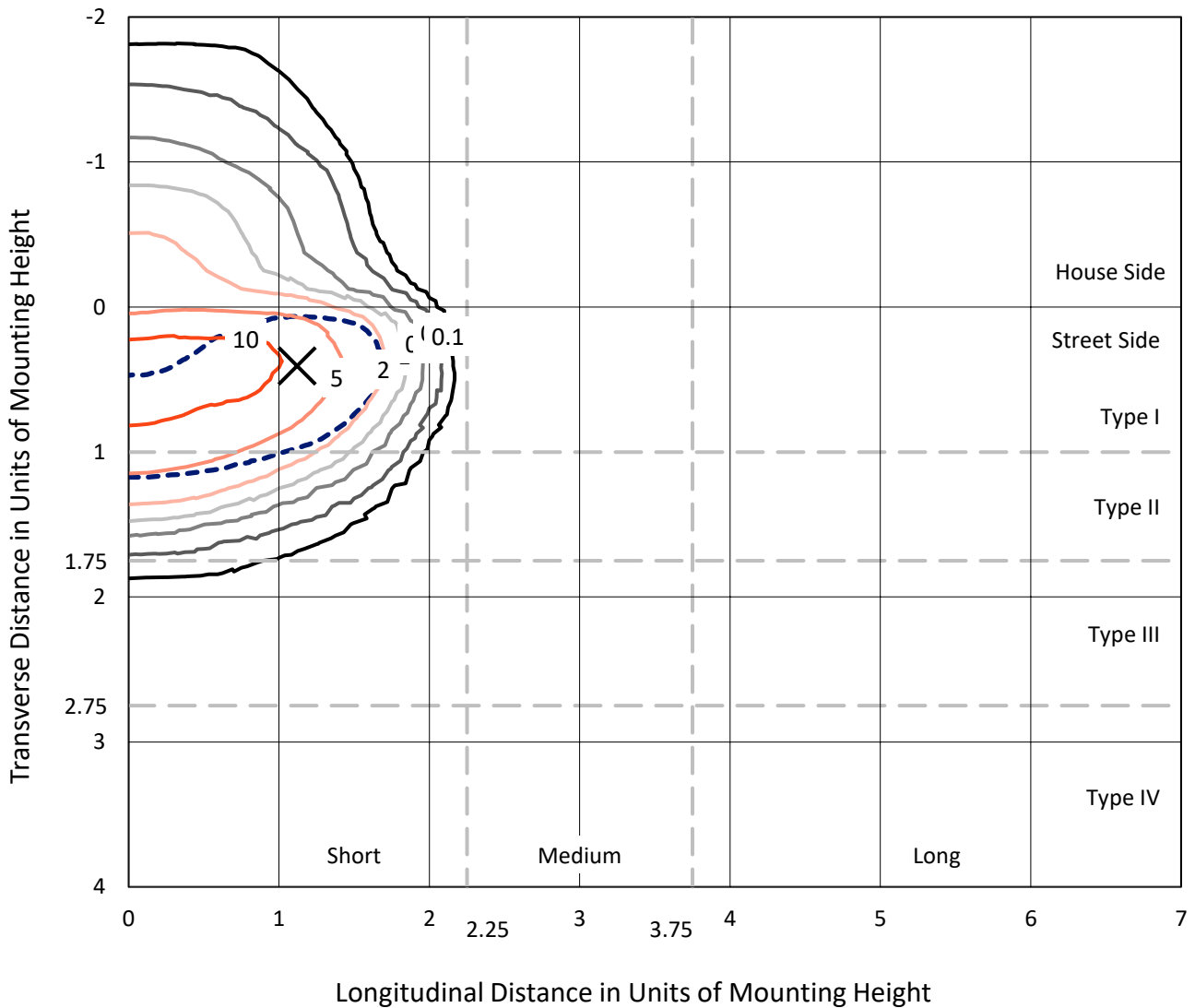


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### Iso-Footcandle Lines of Horizontal Illumination

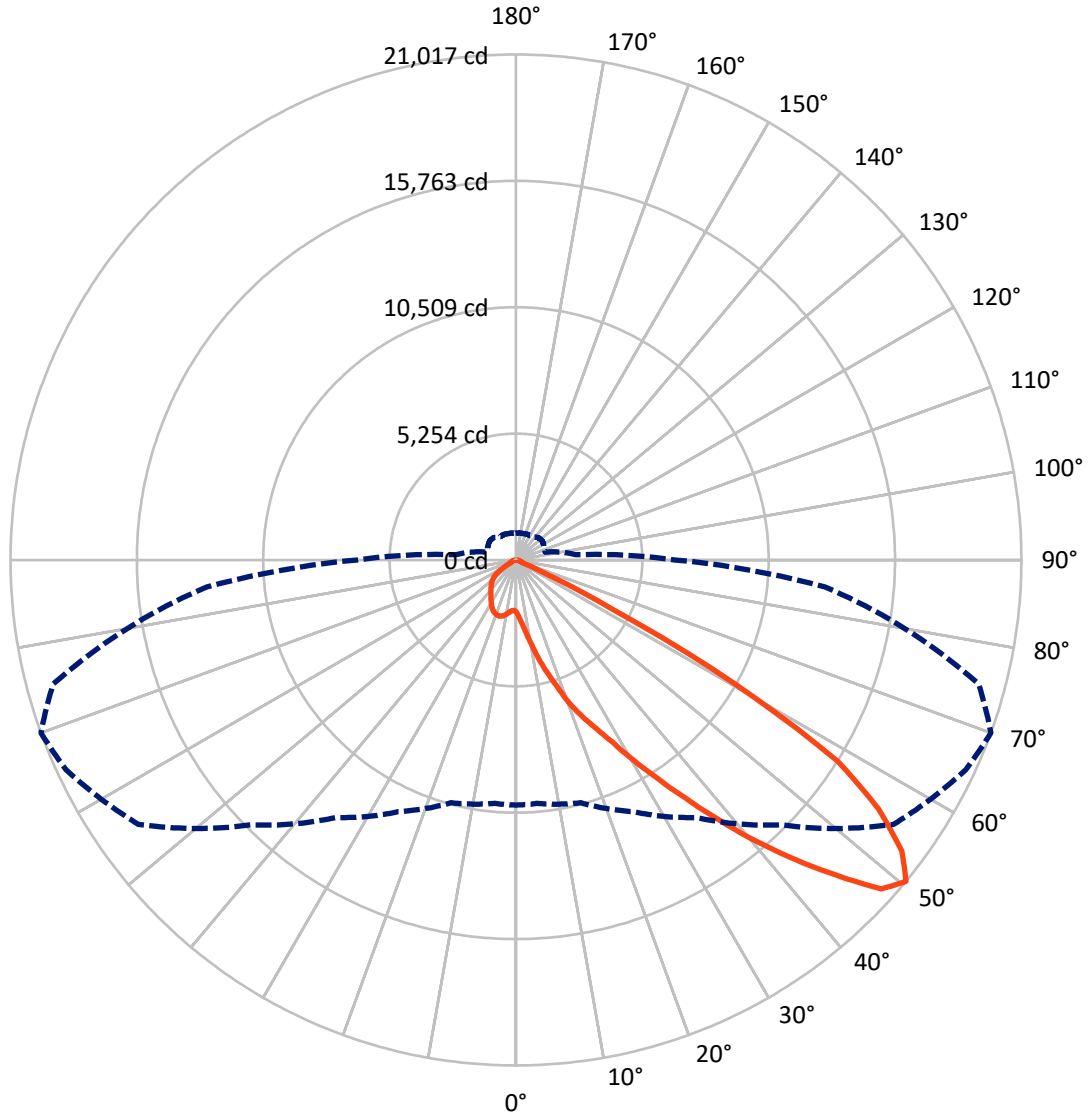
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2903.3	0.0	2903.3
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	17885.7	0.0	17885.7
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	20789.0	0.0	20789.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.0	1.3
10°-20°	1211.2	5.8
20°-30°	2541.0	12.2
30°-40°	4379.8	21.1
40°-50°	6401.0	30.8
50°-60°	4985.3	24.0
60°-70°	844.7	4.1
70°-80°	116.0	0.6
80°-90°	30.0	0.1
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°	20789.0	100.0
0°-180°	20789.0	100.0

**Coefficient of Utilization**



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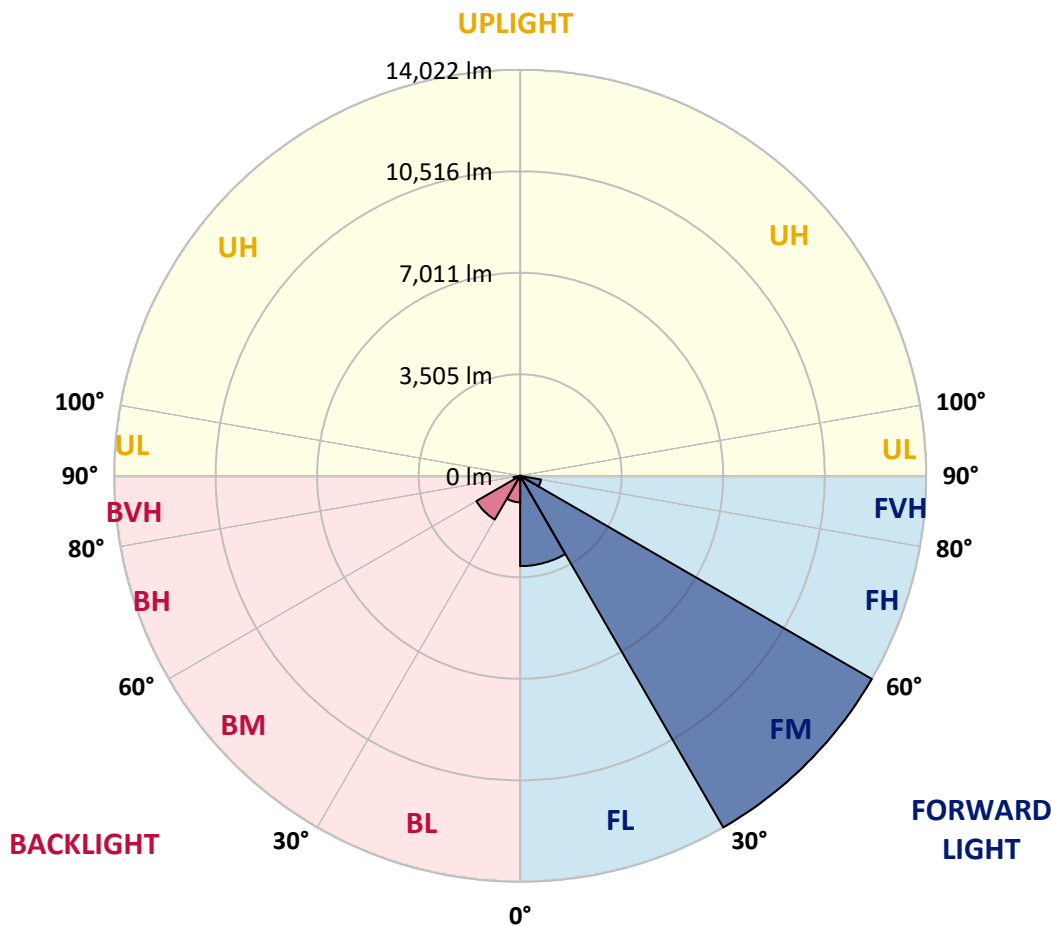
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3118.6	15.0			
FM (30°-60°)	14021.8	67.4			
FH (60°-80°)	731.4	3.5			G1/1800
FVH (80°-90°)	13.9	0.1			G1/100
BL (0°-30°)	913.6	4.4	B2/1000		
BM (30°-60°)	1744.2	8.4	B2/2500		
BH (60°-80°)	229.3	1.1	B1/500		G1/500
BVH (80°-90°)	16.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3
2.5°	2819.8	2799.3	2754.9	2672.9	2638.7	2556.7	2508.8	2416.5	2358.4	2293.5	2221.7
5°	3971.7	3865.7	3800.8	3708.5	3438.5	3271.0	2994.2	2758.3	2648.9	2529.3	2365.2
7.5°	5161.2	5092.8	5003.9	4805.7	4621.1	4272.5	3797.4	3277.8	3055.7	2850.6	2525.9
10°	6145.5	5954.1	5943.9	5796.9	5595.2	5178.2	4607.4	3961.4	3565.0	3264.2	2754.9
12.5°	6832.6	6658.2	6736.8	6719.8	6531.8	6149.0	5489.3	4634.8	4221.2	3752.9	2990.7
15°	7458.0	7386.3	7362.3	7341.8	7266.6	6982.9	6391.6	5455.1	4857.0	4293.0	3257.3
17.5°	8069.9	7885.3	7974.2	7991.3	7984.4	7728.1	7174.4	6234.4	5530.3	4863.8	3537.6
20°	8613.3	8630.4	8510.8	8486.9	8466.4	8456.1	7916.1	7006.9	6357.5	5461.9	3903.3
22.5°	9310.6	9191.0	9296.9	9228.6	9095.3	9013.2	8599.7	7690.5	7075.2	6183.1	4275.9
25°	10134.3	10230.0	9980.5	9953.2	9806.2	9522.5	9149.9	8456.1	7765.7	6853.1	4679.2
27.5°	11149.5	10982.0	10917.0	10766.7	10500.1	10380.4	9942.9	9245.7	8599.7	7557.2	5068.9
30°	12021.1	11976.6	11651.9	11474.2	11241.8	11238.3	10626.5	10315.5	9686.6	8661.2	5605.5
32.5°	12732.0	12537.2	12417.5	12294.5	12106.5	12157.8	11641.7	11477.6	10845.3	9686.6	6237.8
35°	13207.1	13067.0	12995.2	12807.2	12752.5	12981.5	12766.2	12697.8	12178.3	11129.0	6979.5
37.5°	13357.5	13401.9	13388.3	13152.4	13268.6	13887.3	14164.1	13986.4	13713.0	12650.0	7782.8
40°	13490.8	13521.6	13453.2	13730.0	14061.6	14765.7	15767.2	15473.2	15370.7	14191.5	8900.4
42.5°	13566.0	13542.1	13542.1	14020.6	14523.0	15938.1	17315.5	17120.7	17042.1	15832.1	10192.4
45°	13241.3	13008.9	13258.4	13907.8	14919.5	16515.7	18552.8	18822.8	18710.1	17783.8	11703.2
47.5°	12027.9	12171.4	12311.6	13179.8	14437.6	16338.0	19311.6	20231.1	20439.6	19424.4	12694.4
50°	10192.4	10161.7	10452.2	11546.0	13073.8	15572.3	19164.6	20637.8	21017.2	19916.6	12902.9
52.5°	7413.6	7639.2	7953.7	9040.6	10852.1	13589.9	17267.7	19588.5	20094.3	19311.6	12766.2
55°	4316.9	4067.4	4774.9	5694.4	7403.4	10250.5	14598.2	17363.4	18299.9	18211.0	12075.7
57.5°	1729.5	1674.8	1917.5	2584.0	3862.3	6354.0	10616.3	14266.7	15767.2	16679.8	10612.8
60°	758.8	741.7	871.6	1052.7	1579.1	2929.2	5807.2	8873.1	10438.5	11655.3	7304.2
62.5°	546.9	540.0	605.0	669.9	834.0	1274.9	2440.4	3575.2	4457.1	5383.3	3271.0
65°	440.9	458.0	502.4	536.6	615.2	707.5	861.3	994.6	1220.2	1264.7	721.2
67.5°	358.9	372.6	413.6	451.2	464.8	382.8	396.5	348.6	348.6	311.0	249.5
70°	263.2	266.6	314.5	358.9	287.1	153.8	270.0	270.0	242.7	232.4	211.9
72.5°	194.8	198.2	235.8	222.2	112.8	95.7	198.2	218.8	198.2	188.0	170.9
75°	143.6	147.0	123.0	51.3	47.9	61.5	116.2	150.4	143.6	140.1	129.9
77.5°	27.3	20.5	17.1	23.9	34.2	51.3	75.2	92.3	95.7	102.5	95.7
80°	3.4	3.4	10.3	20.5	37.6	54.7	78.6	88.9	92.3	95.7	88.9
82.5°	0.0	3.4	10.3	20.5	37.6	51.3	68.4	78.6	85.4	88.9	85.4
85°	0.0	3.4	6.8	17.1	30.8	37.6	34.2	23.9	20.5	23.9	17.1
87.5°	0.0	0.0	3.4	3.4	6.8	6.8	6.8	6.8	6.8	6.8	6.8
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°	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3
2.5°	2180.7	2167.0	2119.2	2067.9	2023.4	2044.0	2023.4	2006.4	2013.2	2006.4	1999.5
5°	2300.3	2238.8	2136.2	2091.8	2054.2	2050.8	2040.5	2037.1	2040.5	2040.5	2009.8
7.5°	2413.1	2314.0	2204.6	2156.7	2112.3	2115.7	2091.8	2091.8	2088.4	2071.3	2064.5
10°	2584.0	2450.7	2310.6	2225.1	2170.4	2160.2	2136.2	2112.3	2112.3	2112.3	2078.1
12.5°	2772.0	2604.5	2413.1	2314.0	2249.0	2197.8	2160.2	2153.3	2115.7	2108.9	2091.8
15°	2936.0	2724.1	2481.5	2344.7	2262.7	2194.3	2136.2	2098.6	2081.6	2071.3	2057.6
17.5°	3096.7	2826.7	2519.1	2344.7	2255.9	2177.3	2115.7	2081.6	2040.5	2047.4	2020.0
20°	3312.0	2936.0	2529.3	2300.3	2190.9	2115.7	2033.7	2016.6	1992.7	1972.2	1979.0
22.5°	3520.5	3014.7	2498.5	2245.6	2088.4	1999.5	1958.5	1938.0	1927.7	1910.7	1886.7
25°	3708.5	3100.1	2450.7	2146.5	1979.0	1914.1	1876.5	1873.1	1849.1	1849.1	1804.7
27.5°	3899.9	3130.9	2368.7	2030.3	1883.3	1845.7	1828.6	1821.8	1811.5	1787.6	1756.8
30°	4118.7	3141.1	2249.0	1910.7	1797.9	1756.8	1780.8	1797.9	1753.4	1709.0	1722.7
32.5°	4299.8	3117.2	2105.5	1797.9	1736.3	1715.8	1763.7	1780.8	1729.5	1681.6	1657.7
35°	4518.6	3059.1	1965.3	1709.0	1674.8	1715.8	1756.8	1756.8	1654.3	1596.2	1582.5
37.5°	4850.1	2994.2	1835.5	1633.8	1609.9	1695.3	1750.0	1712.4	1551.8	1480.0	1462.9
40°	5205.6	2953.1	1709.0	1558.6	1575.7	1661.1	1691.9	1575.7	1411.6	1367.2	1353.5
42.5°	5721.7	2871.1	1596.2	1493.7	1544.9	1613.3	1613.3	1404.8	1343.3	1319.3	1315.9
45°	6364.3	2813.0	1497.1	1439.0	1500.5	1517.6	1462.9	1315.9	1271.5	1264.7	1268.1
47.5°	6678.7	2700.2	1394.5	1374.0	1418.5	1421.9	1278.3	1244.1	1206.5	1196.3	1189.5
50°	6630.9	2498.5	1261.2	1288.6	1350.1	1315.9	1165.5	1172.4	1138.2	1134.8	1117.7
52.5°	6295.9	2180.7	1127.9	1192.9	1261.2	1162.1	1073.2	1066.4	1066.4	1022.0	1004.9
55°	5581.6	1756.8	967.3	1049.3	1131.4	977.5	953.6	946.8	929.7	888.7	878.4
57.5°	4419.5	1288.6	728.0	816.9	960.5	830.6	827.2	796.4	752.0	721.2	721.2
60°	2628.4	741.7	458.0	499.0	635.7	673.3	748.5	734.9	659.7	611.8	598.1
62.5°	1199.7	382.8	290.5	297.4	341.8	437.5	587.9	680.2	574.2	492.2	485.4
65°	403.3	283.7	239.3	229.0	235.8	263.2	352.1	481.9	458.0	379.4	365.7
67.5°	246.1	252.9	225.6	208.5	208.5	205.1	201.7	218.8	270.0	263.2	266.6
70°	211.9	232.4	208.5	188.0	181.2	170.9	143.6	119.6	102.5	119.6	126.5
72.5°	170.9	184.6	177.7	160.6	143.6	129.9	102.5	78.6	58.1	51.3	51.3
75°	126.5	136.7	143.6	123.0	109.4	92.3	75.2	51.3	30.8	20.5	20.5
77.5°	92.3	102.5	106.0	95.7	82.0	64.9	47.9	34.2	17.1	6.8	6.8
80°	78.6	92.3	102.5	95.7	85.4	61.5	44.4	23.9	13.7	3.4	3.4
82.5°	75.2	92.3	102.5	92.3	82.0	58.1	44.4	27.3	10.3	3.4	3.4
85°	17.1	23.9	30.8	37.6	44.4	44.4	34.2	20.5	10.3	3.4	3.4
87.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	3.4	3.4	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)