

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: P531963

Luminaire Tested: **GALN-SA7B-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531963  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-735-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22454 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

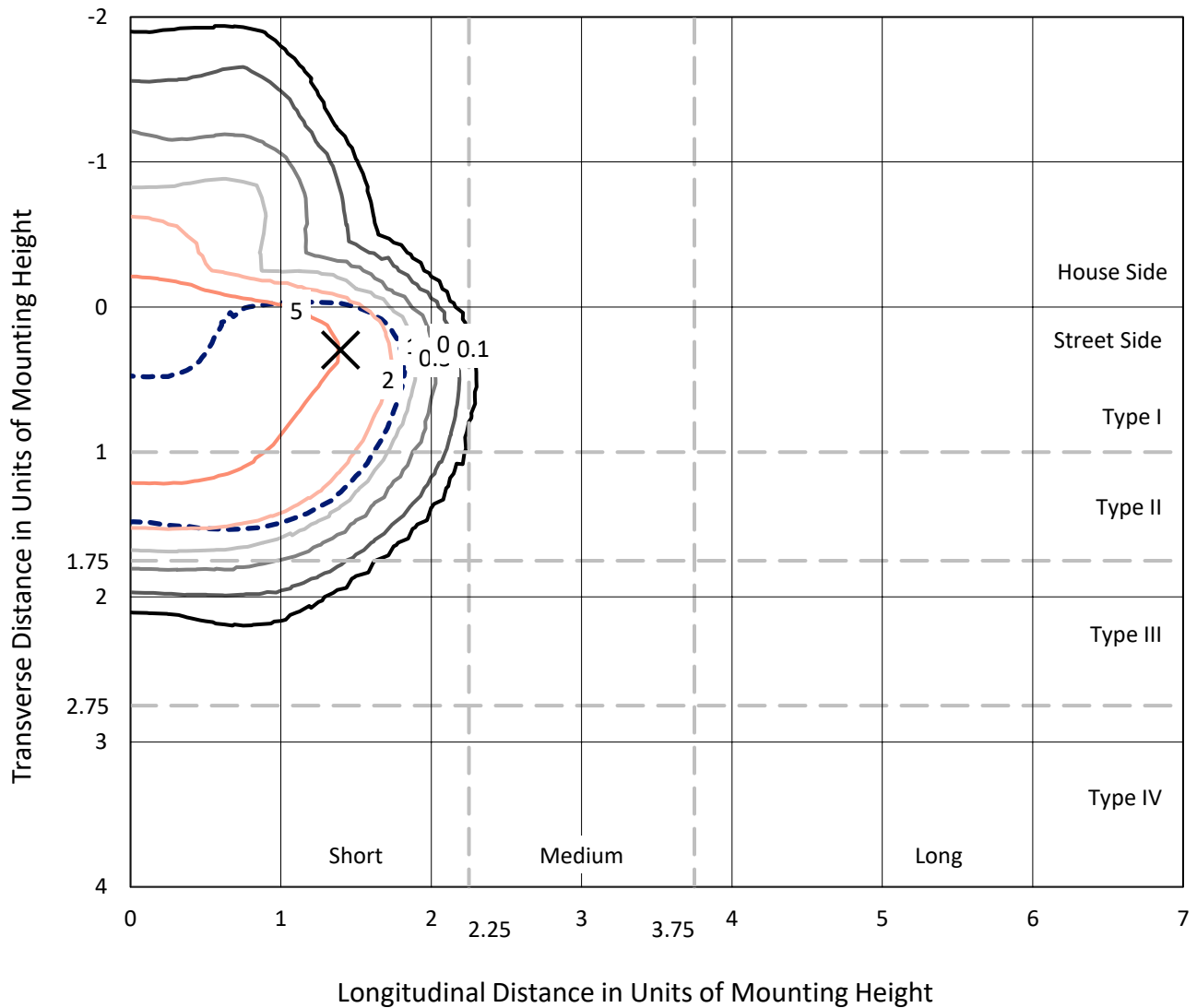
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

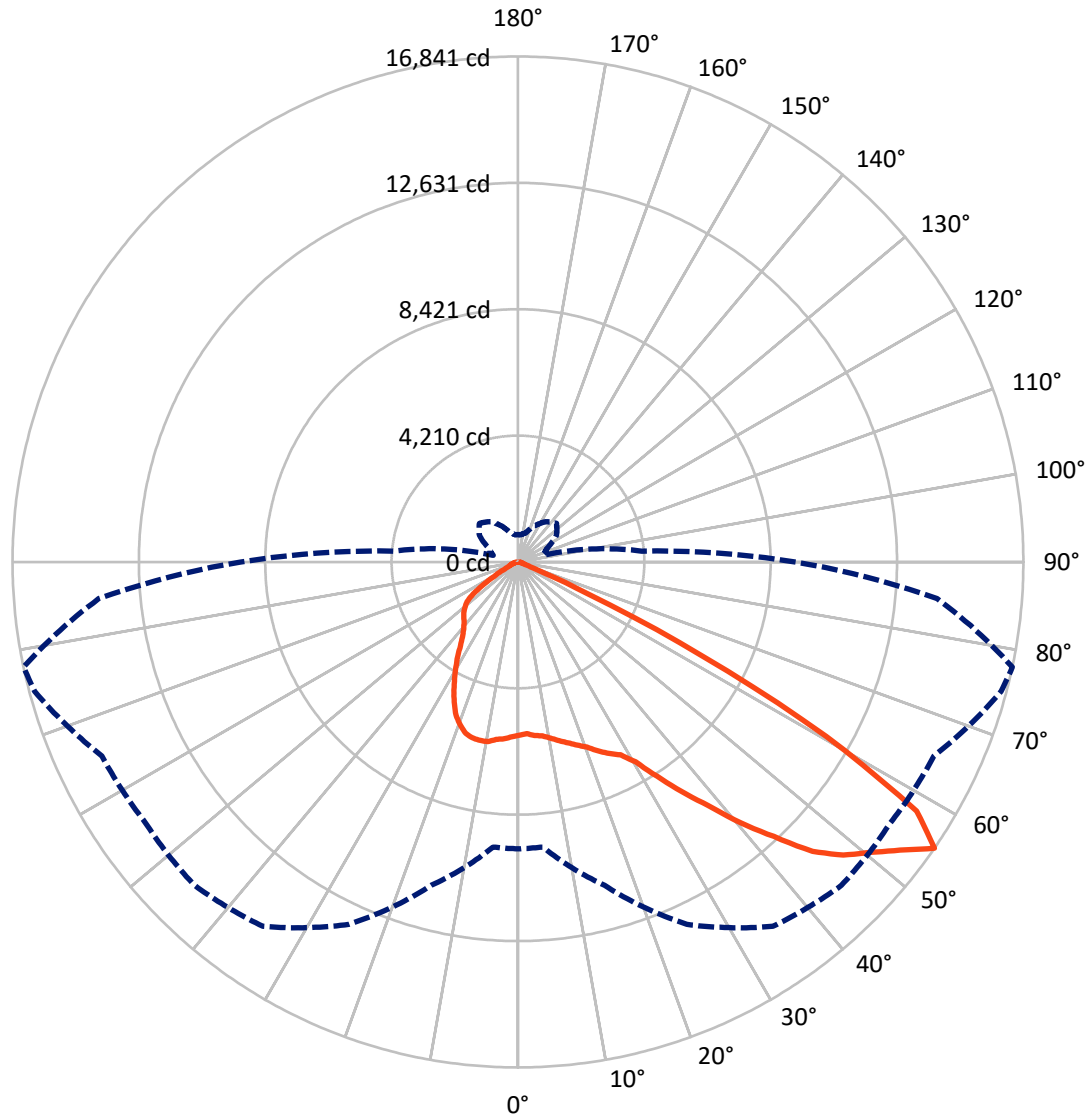
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4170.6	0.0	4170.6
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	18283.4	0.0	18283.4
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	22454.0	0.0	22454.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	514.8	2.3
10°-20°	1362.3	6.1
20°-30°	2387.9	10.6
30°-40°	3937.4	17.5
40°-50°	5729.4	25.5
50°-60°	6492.0	28.9
60°-70°	1856.2	8.3
70°-80°	144.1	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°	22454.0	100.0
0°-180°	22454.0	100.0

**Coefficient of Utilization**



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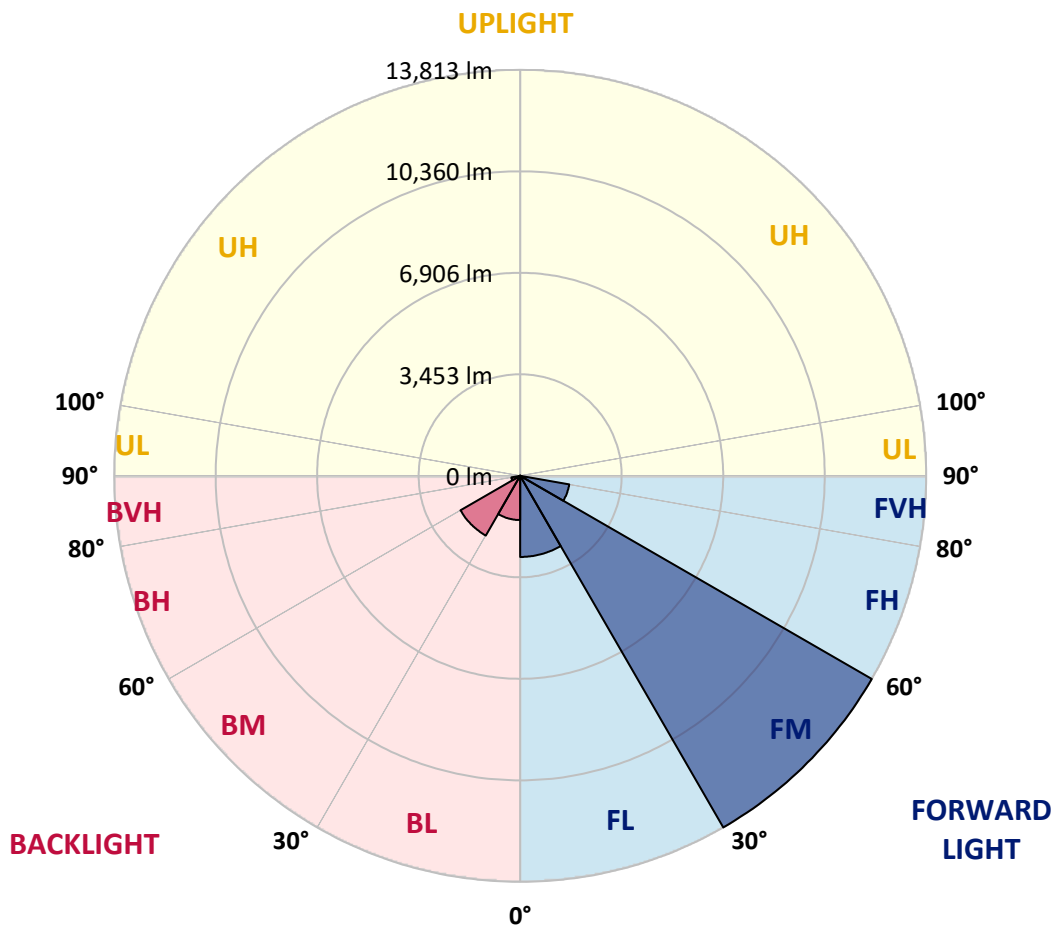
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2760.2	12.3			
FM (30°-60°)	13812.7	61.5			
FH (60°-80°)	1695.9	7.6			G1/1800
FVH (80°-90°)	14.6	0.1			G1/100
BL (0°-30°)	1504.8	6.7	B3/2500		
BM (30°-60°)	2346.0	10.4	B2/2500		
BH (60°-80°)	304.4	1.4	B1/500		G1/500
BVH (80°-90°)	15.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5772.9	5772.9	5772.9	5772.9	5772.9	5772.9	5772.9	5772.9	5772.9	5772.9	5772.9
2.5°	5427.7	5479.9	5487.9	5552.1	5548.1	5656.5	5688.6	5692.6	5764.9	5728.8	5821.1
5°	5275.1	5247.0	5235.0	5347.4	5379.5	5475.9	5556.2	5604.3	5752.9	5805.1	5901.4
7.5°	5138.6	5138.6	5146.7	5247.0	5235.0	5359.4	5443.7	5592.3	5809.1	5853.2	5969.7
10°	5006.2	4958.0	5018.2	5122.6	5210.9	5267.1	5443.7	5584.3	5837.2	5965.6	6126.2
12.5°	4937.9	4962.0	4970.0	5046.3	5142.7	5311.3	5407.6	5640.5	6037.9	6114.2	6286.8
15°	5367.5	5319.3	5202.9	5134.6	5214.9	5295.2	5536.1	5772.9	6142.3	6250.7	6443.4
17.5°	5865.3	5825.1	5728.8	5544.1	5363.5	5512.0	5700.7	5917.5	6254.7	6415.3	6700.3
20°	6515.6	6451.4	6355.0	5993.7	5837.2	5676.6	5877.3	6134.2	6439.4	6583.9	6876.9
22.5°	7290.4	7290.4	7073.7	6636.1	6310.9	6158.3	6242.6	6391.2	6644.1	6840.8	7129.9
25°	8097.4	8073.3	7876.6	7422.9	6872.9	6692.3	6788.6	6893.0	6961.2	7069.6	7262.3
27.5°	9020.7	8880.2	8631.3	8129.5	7643.7	7294.5	7398.8	7306.5	7222.2	7278.4	7555.4
30°	9647.0	9735.3	9418.2	8936.4	8478.7	8089.3	8109.4	8029.1	7643.7	7724.0	7888.6
32.5°	10297.3	10353.5	10176.9	9911.9	9454.3	9000.6	8836.0	8767.8	8478.7	8514.9	8354.3
35°	10839.3	10947.7	10791.1	10674.7	10542.2	10176.9	9723.3	9944.1	9478.4	9390.1	8972.5
37.5°	11337.1	11305.0	11489.7	11369.2	11341.1	11084.2	10586.4	10630.6	10317.4	10297.3	9815.6
40°	11782.7	11790.8	12043.7	12099.9	11987.5	11529.8	10807.2	11156.5	11409.4	11433.5	10815.2
42.5°	12152.1	12260.5	12477.3	12930.9	12762.3	11999.5	11036.0	11417.4	12356.8	12505.4	11762.7
45°	12473.2	12694.0	12963.0	13368.5	13272.1	12665.9	11606.1	11955.4	13368.5	13757.9	12653.9
47.5°	12493.3	12782.4	13075.4	13677.6	13798.0	13023.2	12196.2	12806.4	14171.4	14592.9	13304.3
50°	12413.0	12565.6	13151.7	13806.1	14079.1	13605.3	13023.2	13521.0	14950.2	15215.2	13633.4
52.5°	11461.6	11578.0	12754.3	13926.5	14584.9	14263.7	14119.2	14516.6	15745.1	15941.8	13942.6
55°	9554.7	9534.6	11152.4	13320.3	14817.7	15239.3	15150.9	15291.5	16664.4	16841.1	14018.8
57.5°	6535.7	6901.0	8298.1	11092.2	13392.6	15010.4	15102.8	14869.9	15592.5	15660.8	12220.3
60°	3524.8	3677.3	4801.4	7402.8	10197.0	12232.4	12473.2	12051.7	11995.5	11802.8	8723.6
62.5°	1401.1	1477.4	2115.7	3665.3	5556.2	7435.0	7952.8	7780.2	7410.9	6905.0	4516.4
65°	666.4	714.6	1051.8	1714.2	2464.9	3099.2	3617.1	3777.7	2786.1	2509.1	1489.4
67.5°	453.6	489.8	766.8	979.6	879.2	919.3	1196.3	1112.0	654.4	558.0	413.5
70°	345.3	369.3	614.2	666.4	393.4	277.0	309.1	289.0	269.0	273.0	269.0
72.5°	244.9	265.0	449.6	393.4	172.6	128.5	164.6	196.7	196.7	196.7	192.7
75°	148.5	168.6	260.9	152.6	68.2	68.2	104.4	132.5	140.5	144.5	136.5
77.5°	76.3	96.3	88.3	44.2	44.2	52.2	76.3	92.3	100.4	100.4	96.3
80°	16.1	16.1	16.1	24.1	44.2	56.2	76.3	84.3	96.3	96.3	88.3
82.5°	0.0	4.0	12.0	24.1	40.1	52.2	72.3	84.3	96.3	100.4	92.3
85°	0.0	4.0	8.0	16.1	28.1	32.1	28.1	24.1	24.1	24.1	24.1
87.5°	0.0	0.0	4.0	4.0	4.0	8.0	8.0	8.0	8.0	8.0	8.0
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°	5772.9	5772.9	5772.9	5772.9	5772.9	5772.9	5772.9	5772.9	5772.9	5772.9	5772.9
2.5°	5829.1	5841.2	5821.1	5817.1	5801.0	5849.2	5732.8	5704.7	5777.0	5708.7	5724.8
5°	5905.4	5933.5	5897.4	5837.2	5748.8	5612.4	5495.9	5343.4	5271.1	5218.9	5210.9
7.5°	5961.6	5981.7	5945.6	5752.9	5487.9	5142.7	4885.7	4697.0	4548.5	4504.3	4432.1
10°	6190.5	6194.5	6013.8	5588.3	5070.4	4616.7	4223.3	3934.3	3785.7	3693.4	3653.2
12.5°	6343.0	6335.0	5969.7	5263.1	4572.6	3970.4	3520.8	3171.5	3035.0	2990.8	2962.7
15°	6535.7	6491.5	5865.3	4929.9	3930.3	3279.9	2874.4	2633.6	2621.5	2593.4	2621.5
17.5°	6688.3	6563.8	5712.7	4323.7	3316.0	2701.8	2436.8	2452.9	2485.0	2513.1	2517.1
20°	6937.2	6680.2	5363.5	3793.8	2746.0	2316.4	2312.4	2384.6	2464.9	2497.1	2529.2
22.5°	7125.8	6728.4	4990.1	3227.7	2280.3	2159.8	2228.1	2336.5	2396.7	2428.8	2477.0
25°	7194.1	6595.9	4492.3	2661.7	2055.5	2087.6	2191.9	2264.2	2340.5	2376.6	2356.5
27.5°	7262.3	6527.7	3898.1	2191.9	1935.0	2039.4	2127.7	2200.0	2224.1	2272.2	2304.4
30°	7426.9	6290.8	3364.2	1894.9	1874.8	2007.3	2071.5	2095.6	2159.8	2187.9	2187.9
32.5°	7559.4	6198.5	2798.1	1754.4	1866.8	2023.3	2031.4	2031.4	2039.4	2019.3	2011.3
35°	7832.4	5881.3	2292.3	1670.1	1862.8	2027.4	2047.4	1979.2	1794.5	1722.2	1702.2
37.5°	8169.6	5676.6	1919.0	1650.0	1890.9	2075.5	2107.6	1850.7	1609.8	1493.4	1473.3
40°	8579.1	5532.1	1674.1	1642.0	1955.1	2187.9	2091.6	1750.3	1437.2	1268.6	1260.6
42.5°	9056.8	5399.6	1509.5	1637.9	2035.4	2304.4	2075.5	1666.0	1260.6	1148.2	1164.2
45°	9438.2	5327.3	1397.1	1609.8	2063.5	2372.6	2087.6	1517.5	1188.3	1116.0	1124.1
47.5°	9735.3	5174.8	1304.7	1561.7	2059.5	2396.7	1979.2	1457.3	1152.2	1172.3	1192.3
50°	9743.3	4970.0	1188.3	1457.3	1999.3	2352.5	1854.7	1401.1	1144.1	1228.5	1268.6
52.5°	9634.9	4681.0	1063.9	1308.7	1858.7	2200.0	1742.3	1377.0	1108.0	1100.0	1148.2
55°	9249.5	4139.0	855.1	1059.8	1569.7	1814.6	1642.0	1332.8	999.6	907.3	915.3
57.5°	7475.1	2966.8	630.3	758.8	1112.0	1328.8	1481.4	1312.8	899.3	770.8	774.8
60°	4628.8	1682.1	461.7	517.9	686.5	806.9	1200.4	1220.4	802.9	650.4	642.3
62.5°	2376.6	831.0	357.3	365.3	421.5	473.7	823.0	1023.7	726.6	618.2	618.2
65°	794.9	409.5	313.1	281.0	281.0	293.1	497.8	710.6	614.2	517.9	517.9
67.5°	341.2	305.1	273.0	244.9	224.8	212.8	281.0	413.5	457.7	393.4	377.4
70°	265.0	256.9	236.9	204.7	176.6	160.6	164.6	212.8	260.9	252.9	244.9
72.5°	196.7	196.7	188.7	160.6	136.5	116.4	108.4	112.4	124.5	128.5	132.5
75°	136.5	140.5	140.5	124.5	100.4	84.3	72.3	60.2	48.2	40.1	36.1
77.5°	92.3	96.3	104.4	92.3	76.3	56.2	44.2	32.1	20.1	8.0	8.0
80°	80.3	92.3	100.4	92.3	80.3	60.2	44.2	24.1	12.0	0.0	0.0
82.5°	84.3	92.3	104.4	88.3	76.3	56.2	44.2	28.1	12.0	4.0	0.0
85°	20.1	20.1	24.1	28.1	36.1	40.1	32.1	20.1	12.0	4.0	0.0
87.5°	8.0	8.0	8.0	8.0	8.0	4.0	4.0	4.0	4.0	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)