

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: P528213

Luminaire Tested: **GALN-SA3B-735-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528213  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-735-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9334 lumens  
Efficiency: N/A  
Efficacy: 77.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

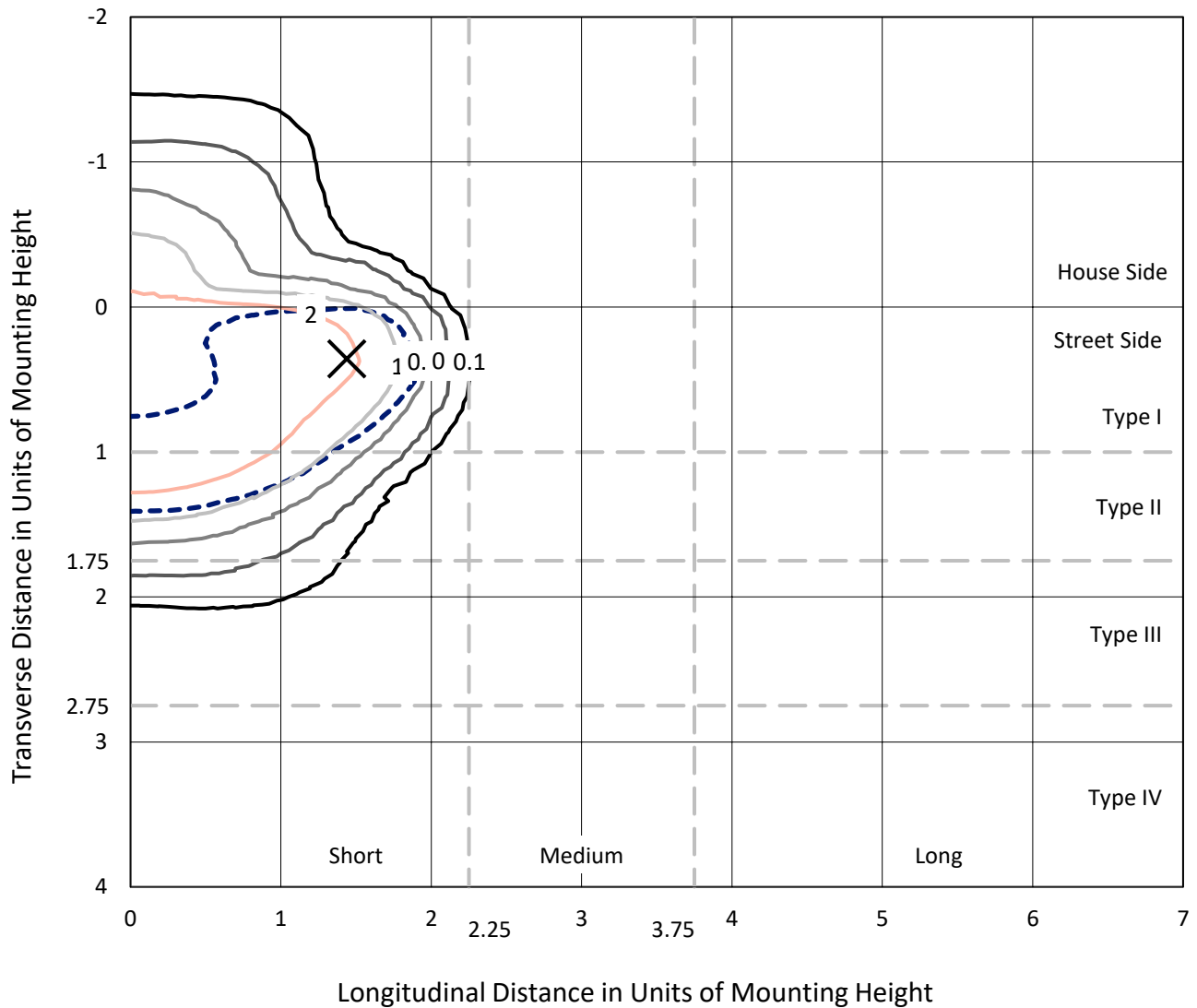
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

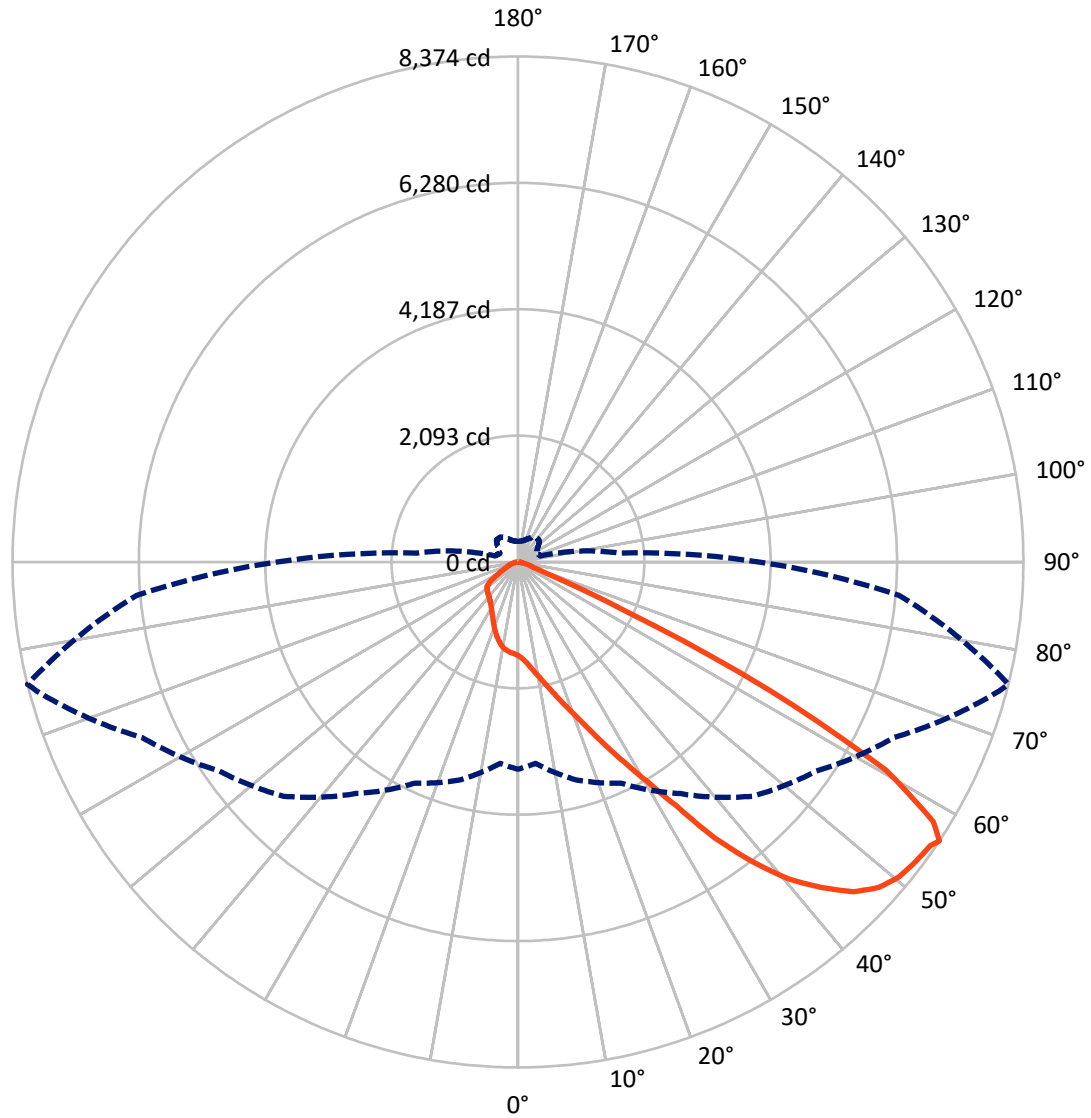
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1466.3	0.0	1466.3
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	7867.7	0.0	7867.7
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	9334.0	0.0	9334.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.5	1.7
10°-20°	502.8	5.4
20°-30°	911.7	9.8
30°-40°	1572.3	16.8
40°-50°	2554.3	27.4
50°-60°	2692.3	28.8
60°-70°	822.6	8.8
70°-80°	105.5	1.1
80°-90°	16.0	0.2
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°	9334.0	100.0
0°-180°	9334.0	100.0

**Coefficient of Utilization**

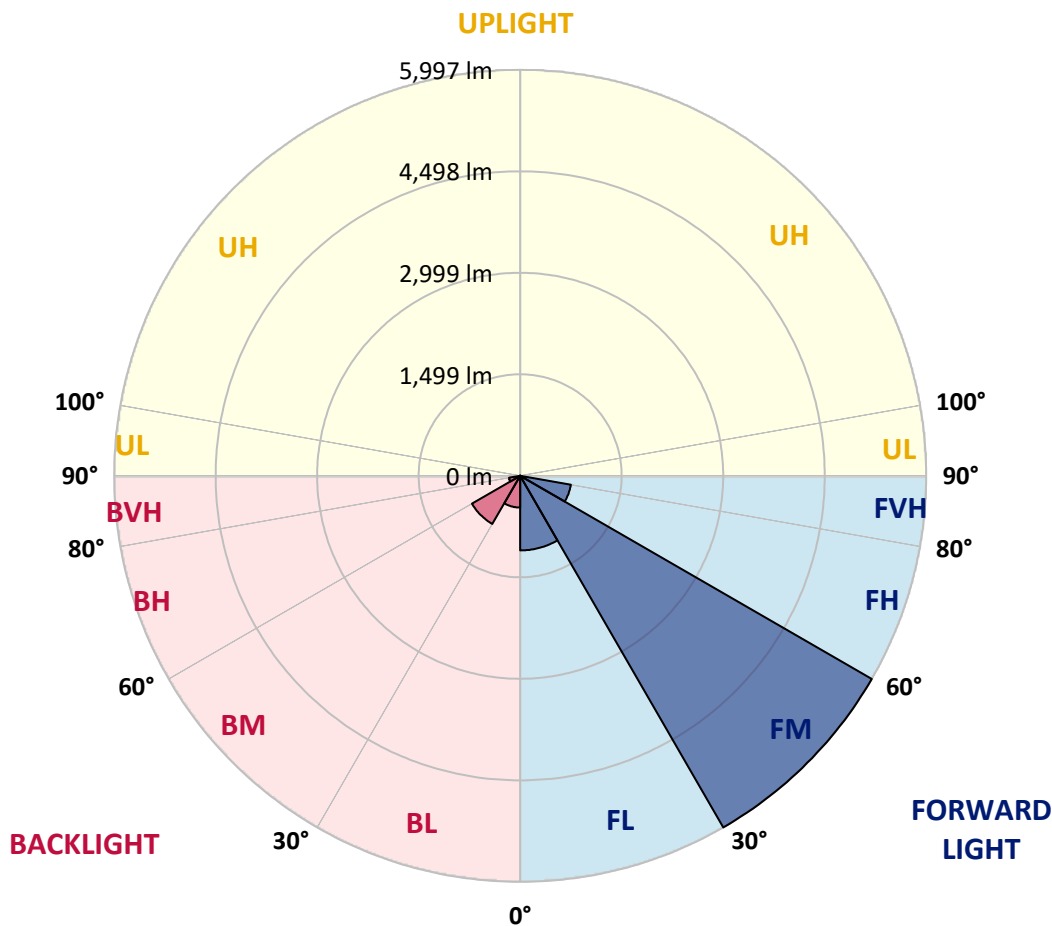


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1102.0	11.8			
FM (30°-60°)	5997.1	64.2			
FH (60°-80°)	760.8	8.2			G1/1800
FVH (80°-90°)	7.8	0.1			G0/10
BL (0°-30°)	469.1	5.0	B1/500		
BM (30°-60°)	821.8	8.8	B1/1000		
BH (60°-80°)	167.3	1.8	B1/500		G1/500
BVH (80°-90°)	8.2	0.1			G0/10
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°	65°	75°	76°	85°
0°	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7
2.5°	1789.4	1748.1	1749.8	1746.4	1741.2	1722.3	1665.5	1656.9	1619.0	1608.7	1574.3
5°	2004.4	1968.3	1989.0	1958.0	1928.7	1911.5	1818.6	1775.6	1715.4	1693.0	1644.8
7.5°	2138.6	2121.4	2114.6	2116.3	2088.7	2045.7	2004.4	1909.8	1828.9	1811.7	1710.2
10°	2204.0	2193.7	2204.0	2198.9	2210.9	2216.1	2143.8	2087.0	1968.3	1939.1	1780.8
12.5°	2219.5	2240.2	2248.8	2271.1	2300.4	2350.3	2345.1	2267.7	2109.4	2090.5	1889.2
15°	2257.4	2274.6	2266.0	2302.1	2357.2	2441.5	2486.2	2474.2	2303.8	2269.4	2014.8
17.5°	2291.8	2260.8	2290.1	2362.3	2417.4	2546.4	2654.8	2704.7	2515.4	2475.9	2130.0
20°	2338.2	2329.6	2324.5	2360.6	2458.7	2630.7	2845.8	2937.0	2752.9	2711.6	2295.2
22.5°	2479.3	2481.0	2477.6	2424.3	2494.8	2689.2	3012.7	3238.1	3036.8	3002.4	2482.8
25°	2665.1	2642.8	2625.6	2582.5	2573.9	2742.6	3181.3	3606.3	3377.4	3353.4	2685.8
27.5°	2861.3	2861.3	2809.7	2770.1	2715.0	2875.0	3336.2	3964.2	3788.7	3756.0	2863.0
30°	3074.6	3086.7	3079.8	2995.5	2961.1	3019.6	3494.4	4421.8	4260.1	4218.8	3155.5
32.5°	3389.5	3363.7	3392.9	3322.4	3220.9	3272.5	3743.9	4831.3	4872.6	4814.1	3539.2
35°	3805.9	3790.4	3771.4	3656.2	3535.7	3577.0	4096.6	5335.4	5641.7	5612.4	3926.3
37.5°	4179.2	4170.6	4155.1	4076.0	3936.6	3986.5	4497.5	5860.2	6391.9	6295.5	4473.4
40°	4571.5	4618.0	4568.1	4497.5	4370.2	4480.3	4969.0	6171.6	7023.3	6906.3	4891.5
42.5°	5103.2	5067.0	5089.4	4960.4	4891.5	5012.0	5442.1	6483.0	7513.6	7374.3	5335.4
45°	5669.2	5670.9	5610.7	5569.4	5390.5	5521.3	5732.9	6655.1	7904.2	7795.8	5670.9
47.5°	6032.3	6030.5	6095.9	6161.3	5977.2	5848.2	5930.7	6818.5	8105.5	8055.6	5793.1
50°	5975.5	5992.7	6077.0	6321.3	6417.7	6243.9	6116.6	6770.4	8196.7	8191.5	5898.1
52.5°	5197.8	5254.6	5395.7	5748.4	6233.6	6448.6	6311.0	6859.8	8241.4	8250.0	6054.6
55°	3957.3	3988.2	4256.6	4685.1	5221.9	5958.3	6233.6	6930.4	8275.9	8291.3	6243.9
56°	3432.5	3349.9	3737.0	4041.6	4683.3	5488.6	6037.4	6875.3	8255.2	8373.9	6338.5
57.5°	2591.2	2536.1	2849.2	3229.5	3847.2	4697.1	5428.3	6615.5	8115.8	8114.1	6202.6
60°	1576.0	1521.0	1761.8	1985.5	2331.3	2892.2	3668.2	5268.3	6861.6	7006.1	5022.3
62.5°	937.7	972.1	1209.5	1345.5	1457.3	1515.8	1897.8	3131.4	4578.4	4681.6	3115.9
65°	624.6	636.6	815.5	1039.2	1089.1	867.2	772.5	1268.0	1985.5	1921.9	1285.3
67.5°	385.4	412.9	547.1	781.1	865.4	633.2	366.5	473.2	547.1	547.1	371.6
70°	234.0	247.8	364.8	531.7	593.6	407.8	266.7	266.7	263.2	258.1	222.0
72.5°	111.8	120.4	185.8	273.6	278.7	215.1	206.5	225.4	220.2	218.5	184.1
75°	48.2	51.6	65.4	86.0	98.1	91.2	125.6	161.7	166.9	161.7	132.5
77.5°	15.5	17.2	24.1	31.0	32.7	39.6	53.3	67.1	77.4	72.3	65.4
80°	1.7	3.4	6.9	15.5	24.1	31.0	39.6	44.7	49.9	49.9	46.5
82.5°	1.7	1.7	6.9	13.8	22.4	29.2	37.9	43.0	49.9	51.6	48.2
85°	0.0	1.7	5.2	12.0	18.9	18.9	17.2	17.2	12.0	12.0	12.0
87.5°	0.0	0.0	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4
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°	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7	1553.7
2.5°	1567.4	1564.0	1517.5	1488.3	1472.8	1441.8	1422.9	1409.1	1398.8	1386.8	1388.5
5°	1588.1	1576.0	1498.6	1445.3	1381.6	1347.2	1317.9	1293.9	1278.4	1274.9	1268.0
7.5°	1646.6	1582.9	1465.9	1369.6	1288.7	1254.3	1228.5	1213.0	1219.9	1204.4	1216.4
10°	1691.3	1596.7	1426.3	1287.0	1206.1	1180.3	1166.5	1178.6	1195.8	1188.9	1180.3
12.5°	1746.4	1610.4	1362.7	1207.8	1132.1	1113.2	1137.3	1159.7	1194.1	1207.8	1190.6
15°	1808.3	1625.9	1281.8	1116.6	1068.5	1083.9	1125.2	1164.8	1199.2	1216.4	1226.8
17.5°	1884.0	1620.8	1202.7	1044.4	1008.2	1053.0	1102.9	1139.0	1190.6	1216.4	1209.5
20°	1954.5	1603.6	1114.9	972.1	973.8	1015.1	1056.4	1114.9	1142.4	1176.9	1164.8
22.5°	2021.6	1572.6	1023.7	922.2	922.2	985.9	1006.5	1044.4	1068.5	1085.7	1083.9
25°	2116.3	1514.1	948.0	874.0	894.7	936.0	953.2	965.2	954.9	968.7	970.4
27.5°	2183.4	1453.9	886.1	831.0	868.9	899.8	894.7	887.8	863.7	844.8	856.8
30°	2255.6	1383.3	832.7	801.8	822.4	850.0	829.3	808.7	770.8	739.8	741.6
32.5°	2358.9	1350.6	786.3	767.4	794.9	798.3	776.0	745.0	707.1	677.9	676.2
35°	2551.6	1330.0	746.7	745.0	750.2	751.9	729.5	691.7	676.2	652.1	660.7
37.5°	2744.3	1319.7	719.2	712.3	710.6	712.3	686.5	650.4	679.6	677.9	681.3
40°	2990.3	1366.1	679.6	671.0	672.7	672.7	640.0	629.7	681.3	686.5	688.2
42.5°	3239.8	1424.6	653.8	626.3	633.2	633.2	616.0	603.9	640.0	605.6	600.5
45°	3456.6	1510.6	626.3	581.5	598.8	607.4	602.2	581.5	559.2	500.7	500.7
47.5°	3527.1	1586.3	593.6	538.5	552.3	590.1	574.7	531.7	492.1	443.9	440.5
50°	3651.0	1668.9	567.8	488.6	517.9	564.3	548.9	505.8	461.1	426.7	428.4
52.5°	3778.3	1763.6	519.6	430.1	466.3	543.7	543.7	495.5	426.7	402.6	399.2
55°	3969.3	1760.1	433.6	352.7	416.4	512.7	521.3	443.9	382.0	363.0	363.0
56°	3996.8	1681.0	390.6	330.3	394.0	504.1	505.8	430.1	364.8	344.1	344.1
57.5°	3790.4	1517.5	342.4	302.8	366.5	488.6	490.4	418.1	351.0	321.7	318.3
60°	2916.3	1027.2	285.6	270.1	332.1	440.5	449.1	380.2	308.0	285.6	283.9
62.5°	1646.6	569.5	251.2	244.3	285.6	375.1	400.9	332.1	261.5	249.5	252.9
65°	751.9	313.1	211.6	197.9	230.6	289.1	323.5	273.6	215.1	201.3	201.3
67.5°	275.3	213.3	180.7	156.6	161.7	187.5	209.9	177.2	142.8	122.2	127.3
70°	196.1	178.9	158.3	135.9	125.6	122.2	120.4	99.8	70.5	55.1	58.5
72.5°	158.3	148.0	132.5	115.3	98.1	82.6	70.5	51.6	32.7	22.4	20.6
75°	113.6	108.4	96.4	82.6	68.8	58.5	48.2	32.7	17.2	8.6	8.6
77.5°	58.5	58.5	56.8	51.6	43.0	34.4	27.5	18.9	10.3	3.4	3.4
80°	44.7	48.2	49.9	44.7	39.6	31.0	22.4	13.8	6.9	1.7	1.7
82.5°	43.0	49.9	53.3	46.5	39.6	29.2	22.4	13.8	6.9	1.7	1.7
85°	10.3	10.3	15.5	17.2	22.4	24.1	18.9	12.0	5.2	1.7	1.7
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	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)