

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: P531893

Luminaire Tested: **GALN-SA7B-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531893  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-727-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24726 lumens  
Efficiency: N/A  
Efficacy: 86.5 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

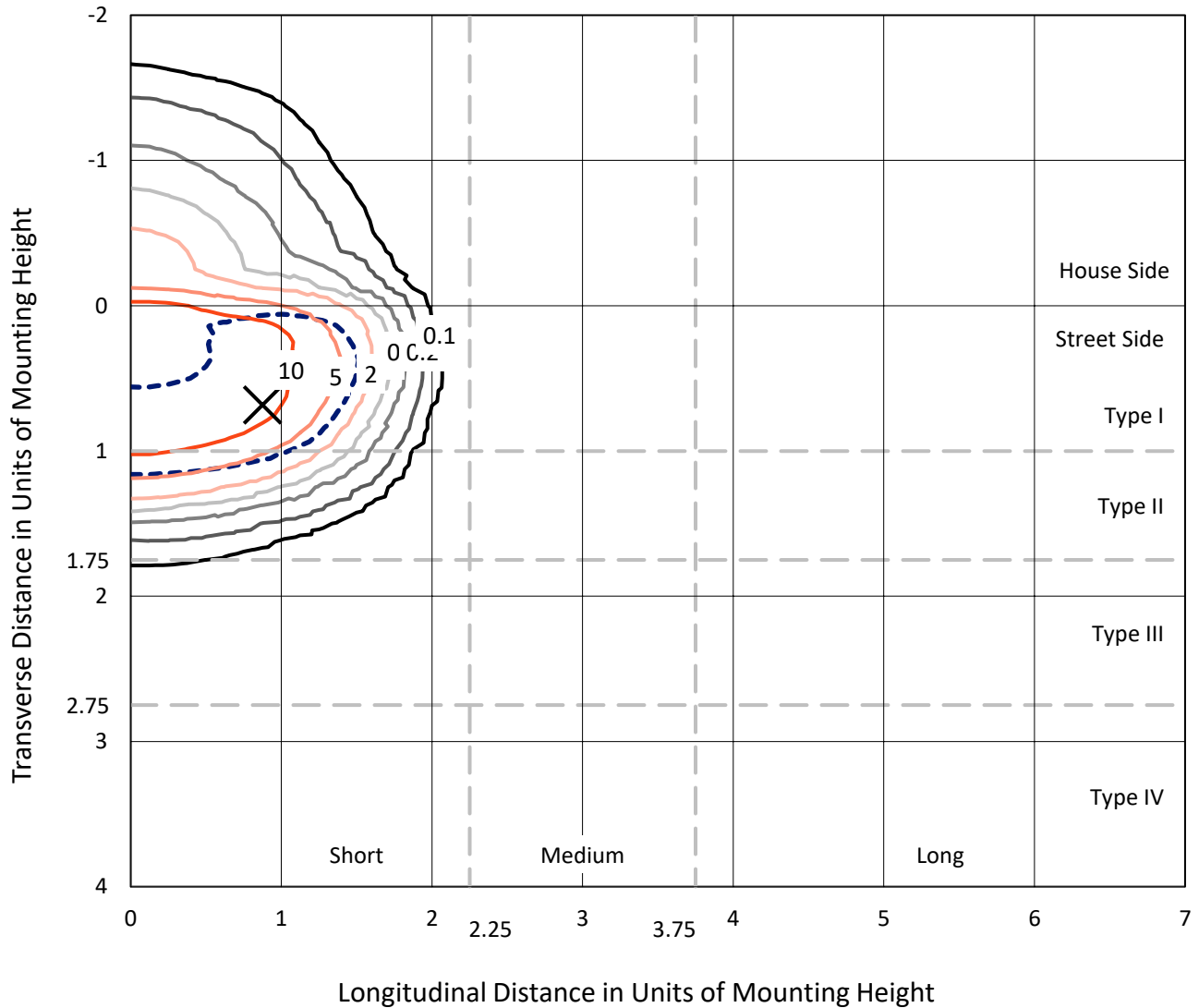
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

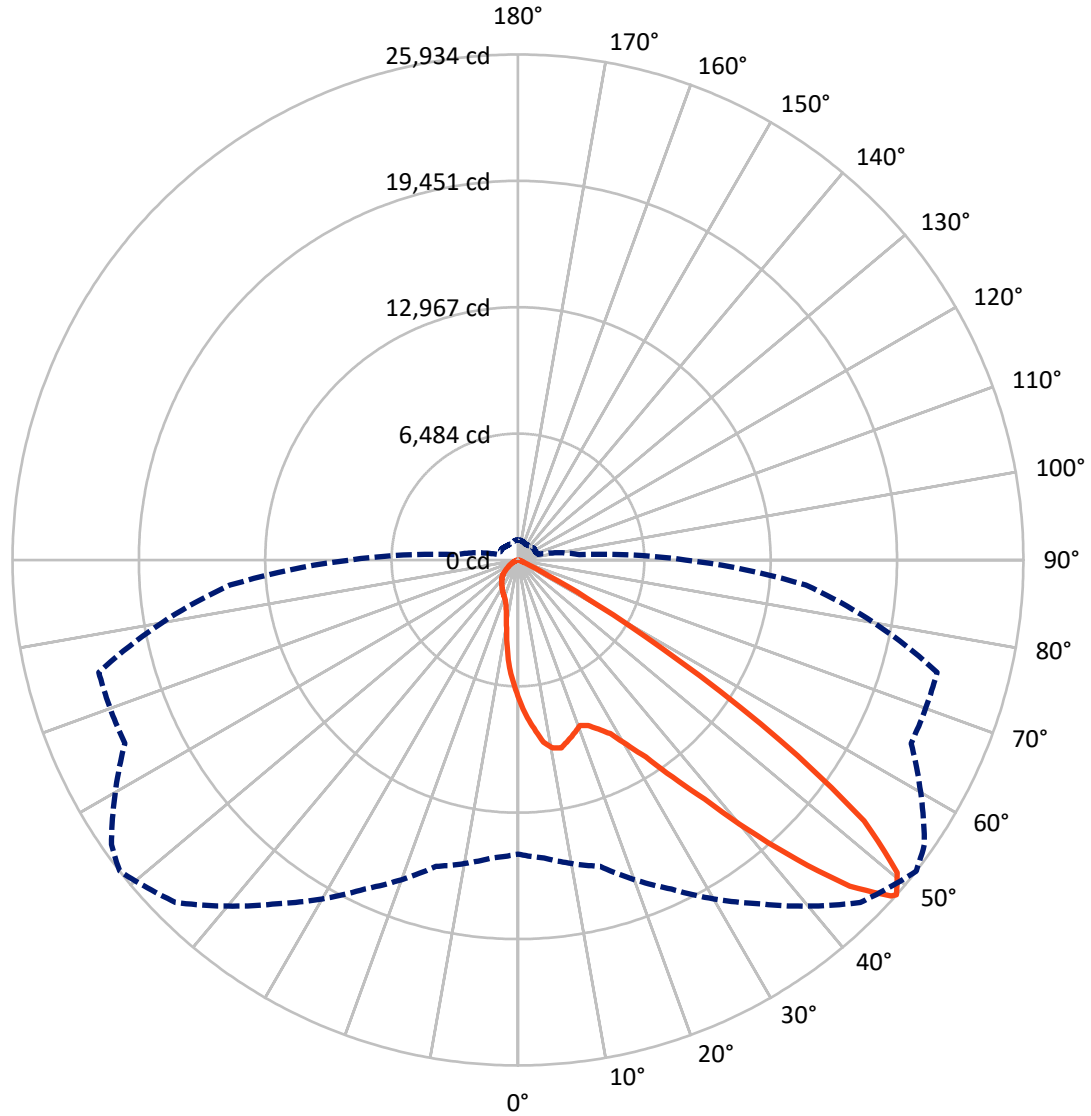
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 48-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3010.6	0.0	3010.6
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	21715.4	0.0	21715.4
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	24726.0	0.0	24726.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	653.6	2.6
10°-20°	1708.0	6.9
20°-30°	2916.2	11.8
30°-40°	5370.2	21.7
40°-50°	8339.9	33.7
50°-60°	5019.2	20.3
60°-70°	580.5	2.3
70°-80°	112.4	0.5
80°-90°	26.0	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°	24726.0	100.0
0°-180°	24726.0	100.0

**Coefficient of Utilization**



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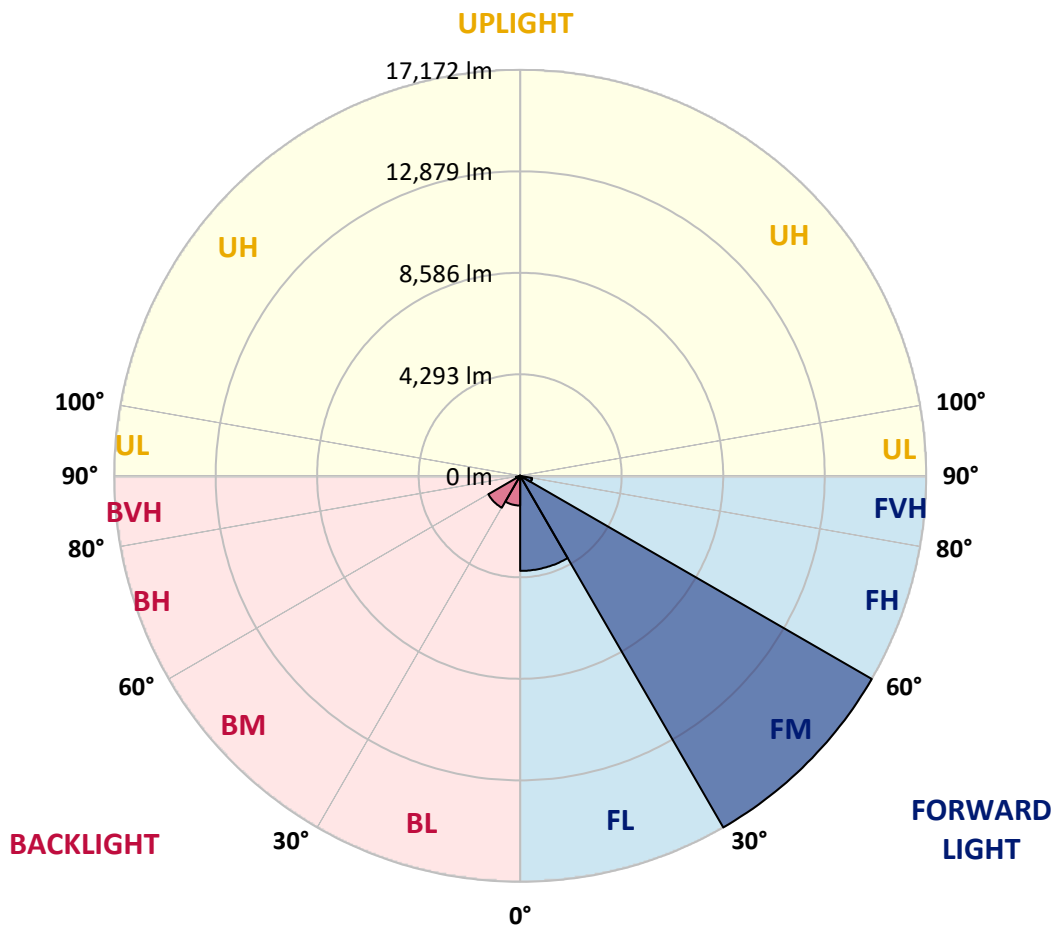
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4020.1	16.3			
FM (30°-60°)	17171.7	69.4			
FH (60°-80°)	511.2	2.1			G0/660
FVH (80°-90°)	12.4	0.0			G1/100
BL (0°-30°)	1257.6	5.1	B3/2500		
BM (30°-60°)	1557.6	6.3	B2/2500		
BH (60°-80°)	181.7	0.7	B1/500		G1/500
BVH (80°-90°)	13.6	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°	52°	55°	65°	75°	85°
0°	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5
2.5°	8654.3	8456.1	8474.1	8344.4	8268.7	8146.1	7980.3	7947.9	7767.6	7522.5	7273.8
5°	9432.9	9386.0	9447.3	9259.9	9267.1	9065.2	8676.0	8683.2	8268.7	7868.6	7482.9
7.5°	9483.4	9375.2	9436.5	9602.3	9699.6	9663.6	9443.7	9252.7	8859.8	8272.3	7710.0
10°	8492.1	8697.6	8762.5	9036.4	9425.7	9836.6	9811.4	9822.2	9494.2	8726.4	7904.6
12.5°	7897.4	7760.4	7980.3	8146.1	8733.6	9530.2	9894.3	9973.6	9998.8	9166.2	8099.2
15°	7627.1	7627.1	7663.1	7710.0	8135.3	8870.6	9613.1	9843.8	10388.1	9742.9	8405.6
17.5°	7796.5	7789.3	7839.7	7742.4	7901.0	8466.9	9353.6	9616.7	10824.2	10308.8	8647.1
20°	8311.9	8337.1	8304.7	8023.6	8034.4	8459.7	9065.2	9479.8	11119.8	10799.0	8967.9
22.5°	9029.2	9043.6	8859.8	8553.4	8463.3	8672.4	9231.1	9548.2	11357.7	11386.5	9065.2
25°	9858.2	9800.6	9764.5	9332.0	9058.0	9238.3	9605.9	9789.7	11505.5	11891.2	9342.8
27.5°	11008.1	10892.7	10672.8	10287.2	10085.3	9829.4	10092.5	10395.3	11927.2	12597.6	9645.6
30°	12705.8	12604.8	12175.9	11678.5	11148.6	10896.3	10979.2	11145.0	12687.7	13415.8	10045.7
32.5°	15261.3	15048.7	14428.7	13480.7	12759.8	12064.2	12042.5	12219.2	13369.0	14547.6	10521.5
35°	18076.4	18011.5	17099.6	16122.8	14727.9	13653.7	13671.8	13765.5	14673.8	16032.7	11145.0
37.5°	19947.1	20304.0	19723.7	18674.8	17503.3	15967.8	15578.5	15611.0	16465.2	17791.7	12269.6
40°	21392.5	21089.8	21158.2	20913.1	20113.0	19067.7	18206.2	18036.8	18537.8	19738.1	13387.0
42.5°	20761.8	20776.2	21197.9	21778.2	21976.5	21900.8	21021.3	20700.5	20311.2	21331.3	14450.3
45°	18981.1	19352.4	19900.3	21435.8	22783.9	24049.0	23876.0	23342.6	21536.7	22592.8	15063.1
47.5°	16140.8	16126.4	17023.9	19020.8	22016.1	24979.0	25764.8	25389.9	22405.4	22452.3	14936.9
48°	15091.9	15351.4	16277.8	18627.9	21529.5	24842.0	25934.2	25462.0	22257.6	22264.8	14828.8
50°	11155.8	11109.0	12262.4	15146.0	19229.9	23342.6	25220.5	25588.1	22254.0	21316.8	14071.9
52.5°	5893.3	6095.2	6935.0	9523.0	13596.1	19103.7	22246.8	22819.9	21468.2	19766.9	12983.3
55°	2505.1	2263.6	2908.8	4300.1	7648.7	12763.4	16321.0	17597.0	18152.1	17492.5	11357.7
57.5°	893.9	976.8	1124.6	1618.4	3215.2	6985.5	9732.1	10723.3	12576.0	12835.5	7738.8
60°	573.1	583.9	630.8	742.5	1207.5	2692.5	4617.3	5406.7	6246.5	6448.4	3611.7
62.5°	443.3	447.0	468.6	486.6	573.1	1045.3	1733.8	2054.5	2133.8	1834.7	948.0
65°	371.3	374.9	382.1	382.1	407.3	490.2	605.6	666.8	648.8	641.6	537.1
67.5°	284.8	292.0	306.4	306.4	320.8	299.2	335.2	356.8	403.7	490.2	457.8
70°	223.5	227.1	237.9	245.1	245.1	216.3	241.5	263.1	295.6	364.1	360.4
72.5°	173.0	180.2	187.4	187.4	176.6	147.8	173.0	191.0	212.7	252.3	245.1
75°	133.4	133.4	137.0	111.7	86.5	75.7	104.5	126.2	158.6	165.8	137.0
77.5°	36.0	39.6	36.0	32.4	36.0	54.1	68.5	79.3	100.9	100.9	90.1
80°	0.0	3.6	10.8	21.6	36.0	50.5	61.3	68.5	79.3	86.5	82.9
82.5°	0.0	3.6	10.8	21.6	32.4	39.6	54.1	57.7	64.9	75.7	75.7
85°	0.0	3.6	7.2	14.4	21.6	25.2	25.2	21.6	21.6	18.0	14.4
87.5°	0.0	0.0	3.6	7.2	7.2	10.8	10.8	10.8	10.8	10.8	10.8
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°	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5
2.5°	7176.5	7064.8	6895.4	6628.6	6372.7	6206.9	6048.3	5871.7	5774.4	5767.2	5713.1
5°	7263.0	7010.7	6607.0	6149.2	5659.0	5237.3	4812.0	4534.4	4285.7	4148.7	4123.5
7.5°	7309.9	6981.9	6329.5	5561.7	4725.5	4037.0	3561.2	3211.6	3074.6	2973.7	2970.1
10°	7407.2	6931.4	5914.9	4783.1	3748.7	3053.0	2725.0	2566.4	2490.7	2461.9	2418.6
12.5°	7479.3	6837.7	5489.6	3982.9	2962.9	2530.3	2386.2	2350.1	2353.7	2368.1	2350.1
15°	7580.2	6754.8	4916.5	3269.3	2487.1	2278.0	2278.0	2285.2	2335.7	2342.9	2339.3
17.5°	7573.0	6592.6	4325.4	2692.5	2198.7	2169.9	2180.7	2249.2	2281.6	2292.4	2267.2
20°	7659.5	6441.2	3716.2	2299.7	2036.5	2079.8	2151.9	2169.9	2209.5	2216.7	2187.9
22.5°	7634.3	6062.7	3150.3	1989.7	1914.0	1996.9	2069.0	2090.6	2079.8	2058.2	2054.5
25°	7587.4	5738.3	2631.3	1784.2	1823.9	1914.0	1982.5	1942.8	1921.2	1924.8	1928.4
27.5°	7504.5	5327.4	2202.3	1640.0	1701.3	1834.7	1831.1	1816.7	1838.3	1820.3	1838.3
30°	7490.1	4916.5	1849.1	1510.3	1611.2	1708.5	1715.7	1741.0	1766.2	1733.8	1766.2
32.5°	7511.7	4465.9	1596.8	1431.0	1557.1	1560.7	1640.0	1665.3	1647.2	1575.2	1582.4
35°	7677.5	4119.9	1413.0	1387.7	1470.6	1474.2	1549.9	1517.5	1438.2	1394.9	1420.2
37.5°	8027.2	3831.6	1326.4	1348.1	1355.3	1402.1	1405.7	1340.9	1348.1	1344.5	1358.9
40°	8474.1	3611.7	1265.2	1312.0	1304.8	1337.3	1207.5	1243.5	1276.0	1286.8	1294.0
42.5°	8780.5	3453.1	1225.5	1254.4	1239.9	1182.3	1110.2	1146.2	1171.5	1211.1	1218.3
45°	8917.5	3326.9	1178.7	1153.4	1153.4	1048.9	1020.1	1027.3	1084.9	1128.2	1121.0
47.5°	8694.0	3204.4	1095.8	1020.1	1045.3	958.8	926.3	926.3	987.6	1041.7	1030.9
48°	8607.5	3153.9	1099.4	991.2	1009.3	944.4	911.9	904.7	973.2	1023.7	1023.7
50°	8178.5	2966.5	1005.6	911.9	875.9	868.7	847.1	854.3	897.5	944.4	944.4
52.5°	7342.3	2562.8	850.7	782.2	717.3	760.5	771.4	756.9	778.6	821.8	818.2
55°	6127.6	1968.0	681.2	648.8	598.3	645.2	666.8	648.8	627.2	659.6	659.6
57.5°	3925.3	1059.7	544.3	551.5	501.0	547.9	565.9	522.6	483.0	508.2	504.6
60°	1769.8	634.4	447.0	436.1	403.7	457.8	486.6	436.1	382.1	400.1	418.1
62.5°	663.2	450.6	338.8	331.6	324.4	374.9	389.3	349.6	295.6	306.4	310.0
65°	486.6	396.5	270.3	245.1	259.5	295.6	288.4	248.7	212.7	212.7	219.9
67.5°	414.5	346.0	219.9	191.0	191.0	194.6	180.2	158.6	147.8	155.0	162.2
70°	324.4	273.9	173.0	147.8	133.4	118.9	104.5	100.9	90.1	100.9	97.3
72.5°	209.1	183.8	133.4	111.7	100.9	82.9	68.5	64.9	54.1	50.5	50.5
75°	111.7	111.7	104.5	90.1	79.3	64.9	54.1	43.3	28.8	21.6	21.6
77.5°	79.3	86.5	93.7	86.5	72.1	54.1	43.3	28.8	14.4	7.2	7.2
80°	75.7	86.5	93.7	82.9	72.1	54.1	39.6	21.6	10.8	3.6	3.6
82.5°	68.5	79.3	86.5	75.7	64.9	46.9	36.0	21.6	10.8	3.6	3.6
85°	14.4	18.0	21.6	21.6	25.2	32.4	25.2	18.0	7.2	3.6	3.6
87.5°	10.8	10.8	10.8	10.8	10.8	10.8	7.2	7.2	3.6	3.6	3.6
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)