

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: P533453

Luminaire Tested: **GALN-SA8D-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533453  
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-SA8D-827-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1200mA 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: 34256 lumens  
Efficiency: N/A  
Efficacy: 69.5 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

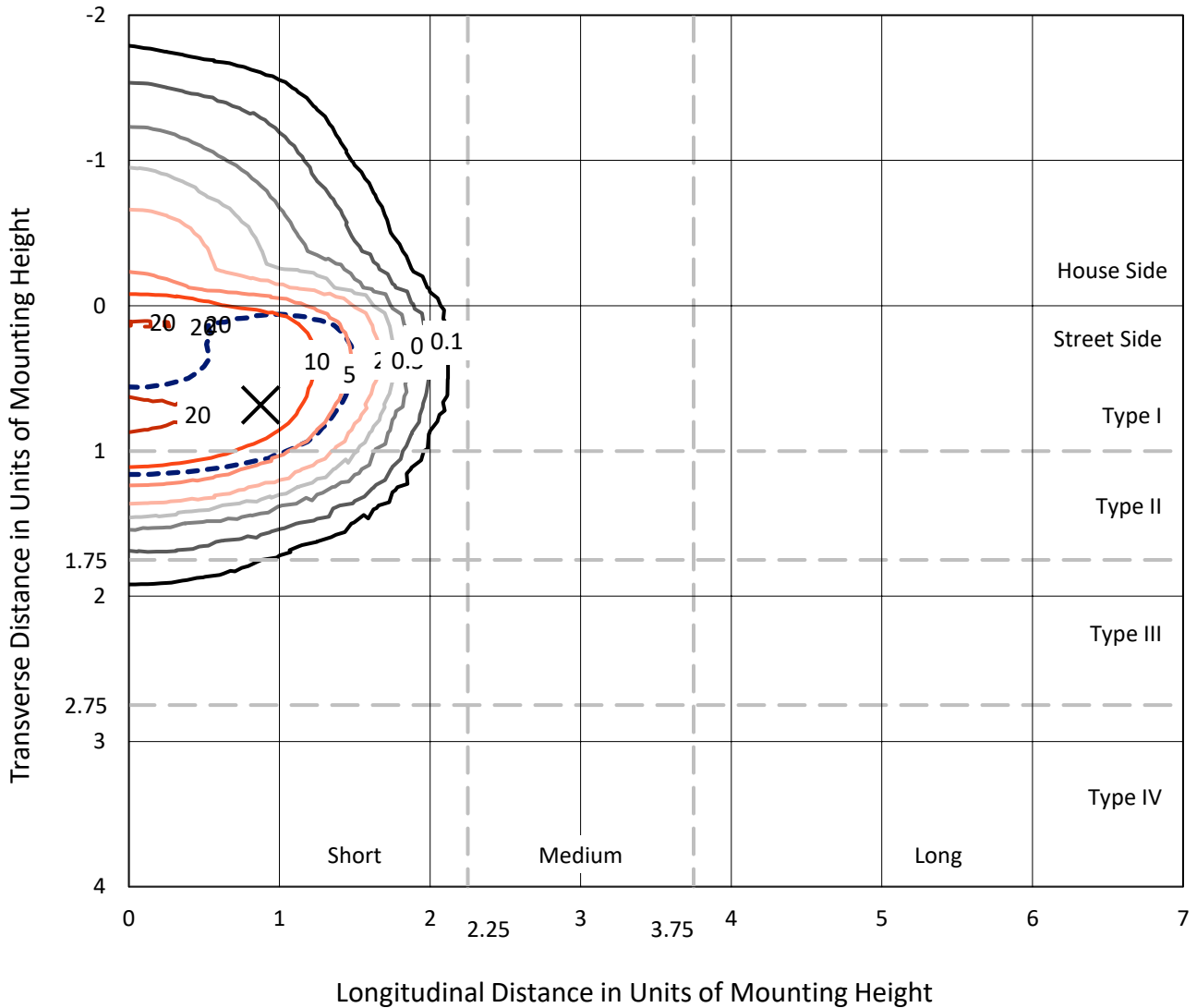
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

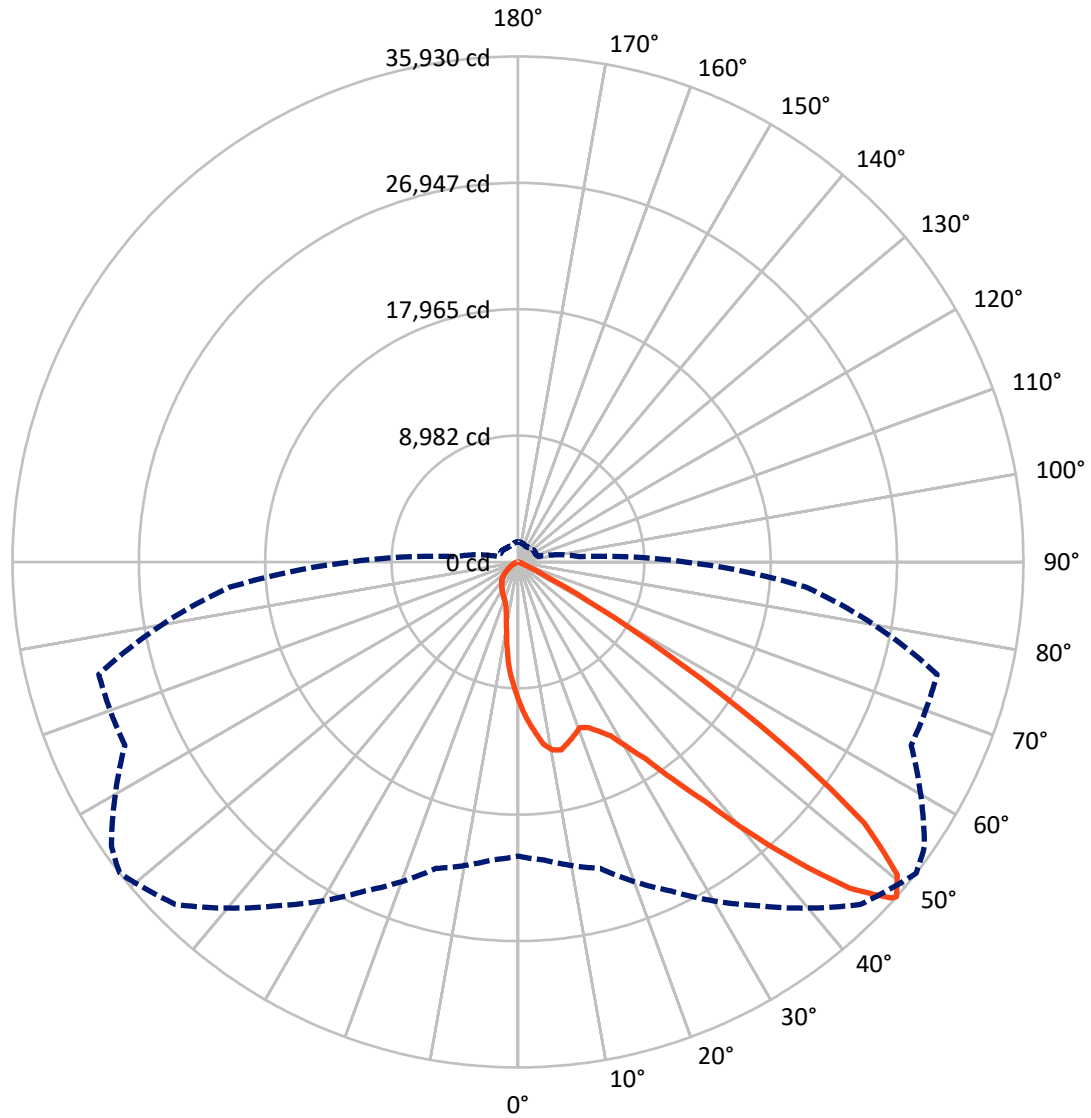
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.1 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	4170.9	0.0	4170.9
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	30085.1	0.0	30085.1
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	34256.0	0.0	34256.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	905.5	2.6
10°-20°	2366.3	6.9
20°-30°	4040.2	11.8
30°-40°	7440.0	21.7
40°-50°	11554.3	33.7
50°-60°	6953.8	20.3
60°-70°	804.3	2.3
70°-80°	155.7	0.5
80°-90°	36.0	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°	34256.0	100.0
0°-180°	34256.0	100.0

**Coefficient of Utilization**



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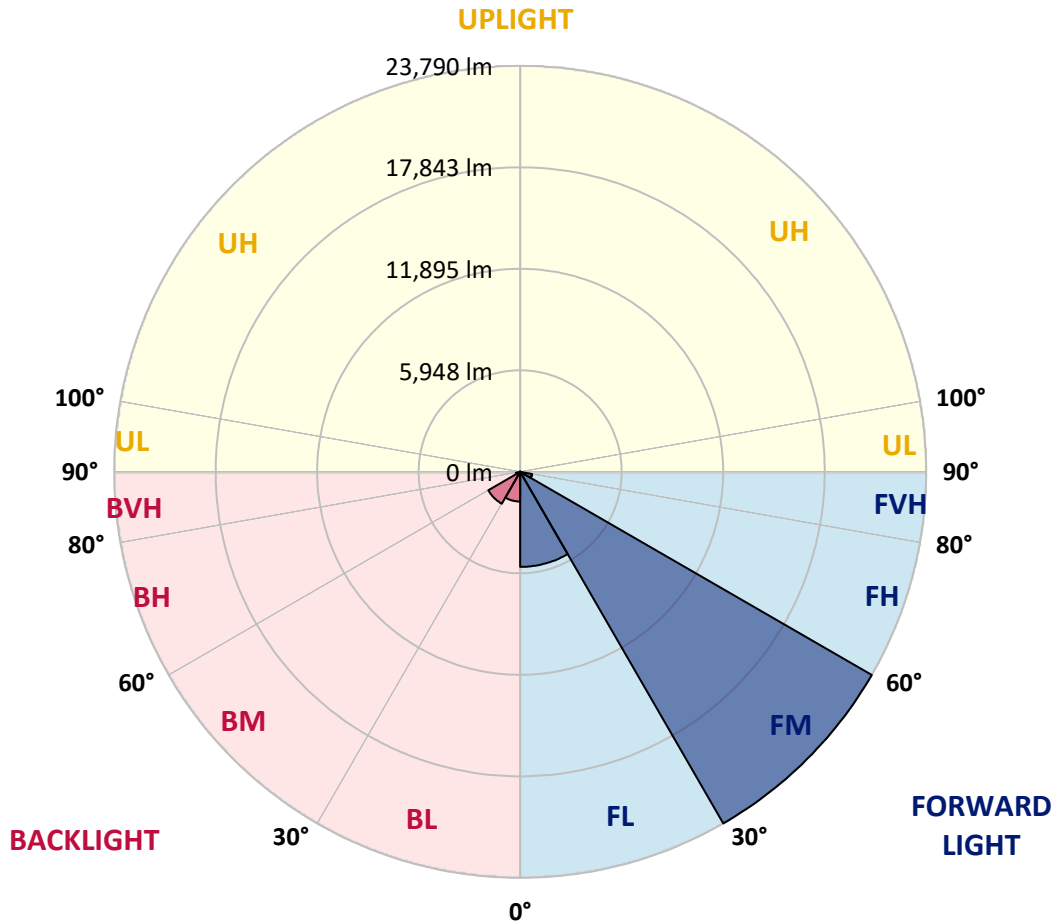
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5569.6	16.3			
FM (30°-60°)	23790.1	69.4			
FH (60°-80°)	708.2	2.1			G1/1800
FVH (80°-90°)	17.1	0.1			G1/100
BL (0°-30°)	1742.3	5.1	B3/2500		
BM (30°-60°)	2158.0	6.3	B2/2500		
BH (60°-80°)	251.7	0.7	B1/500		G1/500
BVH (80°-90°)	18.9	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°	9892.6	9892.6	9892.6	9892.6	9892.6	9892.6	9892.6	9892.6	9892.6	9892.6	9892.6
2.5°	11989.9	11715.3	11740.2	11560.5	11455.6	11285.8	11056.1	11011.2	10761.5	10421.9	10077.3
5°	13068.6	13003.7	13088.5	12828.9	12838.9	12559.2	12019.9	12029.9	11455.6	10901.3	10367.0
7.5°	13138.5	12988.7	13073.6	13303.3	13438.1	13388.2	13083.6	12818.9	12274.6	11460.6	10681.6
10°	11765.2	12049.9	12139.7	12519.3	13058.6	13627.9	13592.9	13607.9	13153.5	12089.8	10951.2
12.5°	10941.2	10751.5	11056.1	11285.8	12099.8	13203.4	13707.8	13817.6	13852.6	12699.0	11220.9
15°	10566.7	10566.7	10616.7	10681.6	11270.8	12289.6	13318.3	13637.9	14391.9	13498.0	11645.4
17.5°	10801.4	10791.4	10861.3	10726.5	10946.2	11730.3	12958.7	13323.3	14996.1	14282.0	11979.9
20°	11515.5	11550.5	11505.5	11116.0	11131.0	11720.3	12559.2	13133.5	15405.6	14961.2	12424.4
22.5°	12509.3	12529.2	12274.6	11850.1	11725.3	12014.9	12788.9	13228.4	15735.2	15775.2	12559.2
25°	13657.8	13577.9	13528.0	12928.7	12549.2	12798.9	13308.3	13562.9	15940.0	16474.3	12943.7
27.5°	15250.8	15091.0	14786.4	14252.1	13972.4	13617.9	13982.4	14401.9	16524.2	17453.1	13363.2
30°	17602.9	17463.0	16868.8	16179.7	15445.6	15096.0	15210.9	15440.6	17577.9	18586.6	13917.5
32.5°	21143.4	20848.8	19989.9	18676.5	17677.8	16714.0	16684.0	16928.7	18521.7	20154.7	14576.7
35°	25043.5	24953.6	23690.2	22336.9	20404.3	18916.2	18941.2	19071.0	20329.4	22212.1	15440.6
37.5°	27635.3	28129.6	27325.6	25872.5	24249.5	22122.2	21582.9	21627.8	22811.3	24649.0	16998.6
40°	29637.7	29218.3	29313.1	28973.6	27865.0	26416.8	25223.3	24988.6	25682.7	27345.6	18546.7
42.5°	28763.8	28783.8	29368.1	30172.1	30446.7	30341.9	29123.4	28678.9	28139.6	29552.8	20019.8
45°	26296.9	26811.3	27570.3	29697.7	31565.3	33318.1	33078.4	32339.3	29837.5	31300.7	20868.8
47.5°	22361.9	22341.9	23585.4	26351.9	30501.7	34606.5	35695.1	35175.8	31041.0	31105.9	20694.0
48°	20908.7	21268.3	22551.6	25807.6	29827.5	34416.7	35929.8	35275.7	30836.2	30846.2	20544.2
50°	15455.6	15390.7	16988.6	20983.6	26641.5	32339.3	34941.1	35450.4	30831.2	29532.9	19495.5
52.5°	8164.7	8444.4	9607.9	13193.4	18836.3	26466.7	30821.3	31615.3	29742.6	27385.6	17987.4
55°	3470.6	3136.1	4029.9	5957.5	10596.7	17682.8	22611.6	24379.4	25148.4	24234.5	15735.2
57.5°	1238.4	1353.3	1558.0	2242.2	4454.4	9677.8	13483.1	14856.3	17423.1	17782.6	10721.5
60°	794.0	809.0	873.9	1028.7	1672.9	3730.3	6397.0	7490.6	8654.1	8933.8	5003.7
62.5°	614.2	619.2	649.2	674.2	794.0	1448.2	2402.0	2846.4	2956.3	2541.8	1313.3
65°	514.4	519.3	529.3	529.3	564.3	679.1	838.9	923.8	898.9	888.9	744.1
67.5°	394.5	404.5	424.5	424.5	444.4	414.5	464.4	494.4	559.3	679.1	634.2
70°	309.6	314.6	329.6	339.6	339.6	299.6	334.6	364.5	409.5	504.4	499.4
72.5°	239.7	249.7	259.7	259.7	244.7	204.7	239.7	264.7	294.6	349.6	339.6
75°	184.8	184.8	189.8	154.8	119.8	104.9	144.8	174.8	219.7	229.7	189.8
77.5°	49.9	54.9	49.9	44.9	49.9	74.9	94.9	109.9	139.8	139.8	124.8
80°	0.0	5.0	15.0	30.0	49.9	69.9	84.9	94.9	109.9	119.8	114.9
82.5°	0.0	5.0	15.0	30.0	44.9	54.9	74.9	79.9	89.9	104.9	104.9
85°	0.0	5.0	10.0	20.0	30.0	35.0	35.0	30.0	30.0	25.0	20.0
87.5°	0.0	0.0	5.0	10.0	10.0	15.0	15.0	15.0	15.0	15.0	15.0
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°	9892.6	9892.6	9892.6	9892.6	9892.6	9892.6	9892.6	9892.6	9892.6	9892.6	9892.6
2.5°	9942.5	9787.7	9553.0	9183.5	8828.9	8599.2	8379.5	8134.8	7999.9	7990.0	7915.0
5°	10062.4	9712.8	9153.5	8519.3	7840.1	7255.9	6666.6	6282.1	5937.5	5747.8	5712.8
7.5°	10127.3	9672.8	8769.0	7705.3	6546.8	5593.0	4933.8	4449.4	4259.6	4119.8	4114.8
10°	10262.1	9602.9	8194.7	6626.7	5193.5	4229.7	3775.3	3555.5	3450.7	3410.7	3350.8
12.5°	10362.0	9473.1	7605.4	5518.1	4104.8	3505.6	3305.8	3255.9	3260.9	3280.9	3255.9
15°	10501.8	9358.2	6811.4	4529.3	3445.7	3156.0	3156.0	3166.0	3235.9	3245.9	3240.9
17.5°	10491.8	9133.5	5992.5	3730.3	3046.2	3006.2	3021.2	3116.1	3161.0	3176.0	3141.1
20°	10611.7	8923.8	5148.5	3186.0	2821.5	2881.4	2981.3	3006.2	3061.2	3071.1	3031.2
22.5°	10576.7	8399.4	4364.5	2756.5	2651.7	2766.5	2866.4	2896.4	2881.4	2851.4	2846.4
25°	10511.8	7950.0	3645.4	2471.9	2526.8	2651.7	2746.5	2691.6	2661.7	2666.6	2671.6
27.5°	10396.9	7380.7	3051.2	2272.1	2357.0	2541.8	2536.8	2516.8	2546.8	2521.8	2546.8
30°	10377.0	6811.4	2561.8	2092.4	2232.2	2367.0	2377.0	2412.0	2446.9	2402.0	2446.9
32.5°	10406.9	6187.2	2212.2	1982.5	2157.3	2162.3	2272.1	2307.1	2282.1	2182.3	2192.2
35°	10636.6	5707.8	1957.5	1922.6	2037.4	2042.4	2147.3	2102.4	1992.5	1932.6	1967.5
37.5°	11121.0	5308.3	1837.7	1867.7	1877.6	1942.6	1947.6	1857.7	1867.7	1862.7	1882.6
40°	11740.2	5003.7	1752.8	1817.7	1807.7	1852.7	1672.9	1722.8	1767.8	1782.8	1792.7
42.5°	12164.7	4784.0	1697.9	1737.8	1717.8	1637.9	1538.1	1588.0	1623.0	1677.9	1687.9
45°	12354.5	4609.2	1632.9	1598.0	1598.0	1453.2	1413.2	1423.2	1503.1	1563.0	1553.0
47.5°	12044.9	4439.4	1518.1	1413.2	1448.2	1328.3	1283.4	1283.4	1368.3	1443.2	1428.2
48°	11925.0	4369.5	1523.1	1373.3	1398.2	1308.4	1263.4	1253.4	1348.3	1418.2	1418.2
50°	11330.8	4109.8	1393.2	1263.4	1213.5	1203.5	1173.5	1183.5	1243.4	1308.4	1308.4
52.5°	10172.2	3550.5	1178.5	1083.6	993.8	1053.7	1068.7	1048.7	1078.6	1138.6	1133.6
55°	8489.3	2726.6	943.8	898.9	829.0	893.9	923.8	898.9	868.9	913.9	913.9
57.5°	5438.2	1468.2	754.1	764.0	694.1	759.0	784.0	724.1	669.2	704.1	699.1
60°	2451.9	878.9	619.2	604.2	559.3	634.2	674.2	604.2	529.3	554.3	579.3
62.5°	918.8	624.2	469.4	459.4	449.4	519.3	539.3	484.4	409.5	424.5	429.5
65°	674.2	549.3	374.5	339.6	359.5	409.5	399.5	344.6	294.6	294.6	304.6
67.5°	574.3	479.4	304.6	264.7	264.7	269.7	249.7	219.7	204.7	214.7	224.7
70°	449.4	379.5	239.7	204.7	184.8	164.8	144.8	139.8	124.8	139.8	134.8
72.5°	289.6	254.7	184.8	154.8	139.8	114.9	94.9	89.9	74.9	69.9	69.9
75°	154.8	154.8	144.8	124.8	109.9	89.9	74.9	59.9	39.9	30.0	30.0
77.5°	109.9	119.8	129.8	119.8	99.9	74.9	59.9	39.9	20.0	10.0	10.0
80°	104.9	119.8	129.8	114.9	99.9	74.9	54.9	30.0	15.0	5.0	5.0
82.5°	94.9	109.9	119.8	104.9	89.9	64.9	49.9	30.0	15.0	5.0	5.0
85°	20.0	25.0	30.0	30.0	35.0	44.9	35.0	25.0	10.0	5.0	5.0
87.5°	15.0	15.0	15.0	15.0	15.0	15.0	10.0	10.0	5.0	5.0	5.0
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)