

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: P529553

Luminaire Tested: **GALN-SA4D-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529553
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-SA4D-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 19092 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

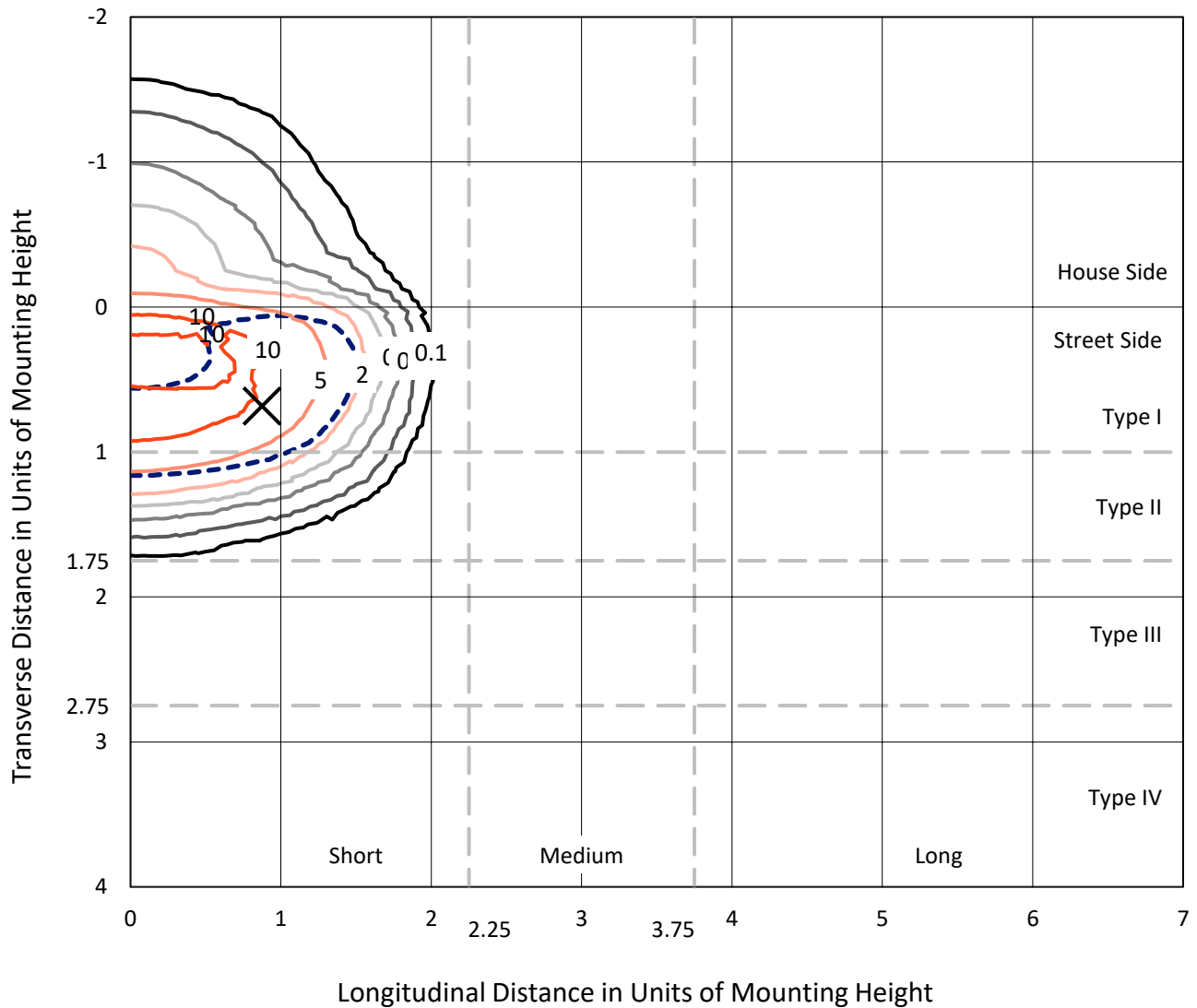
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

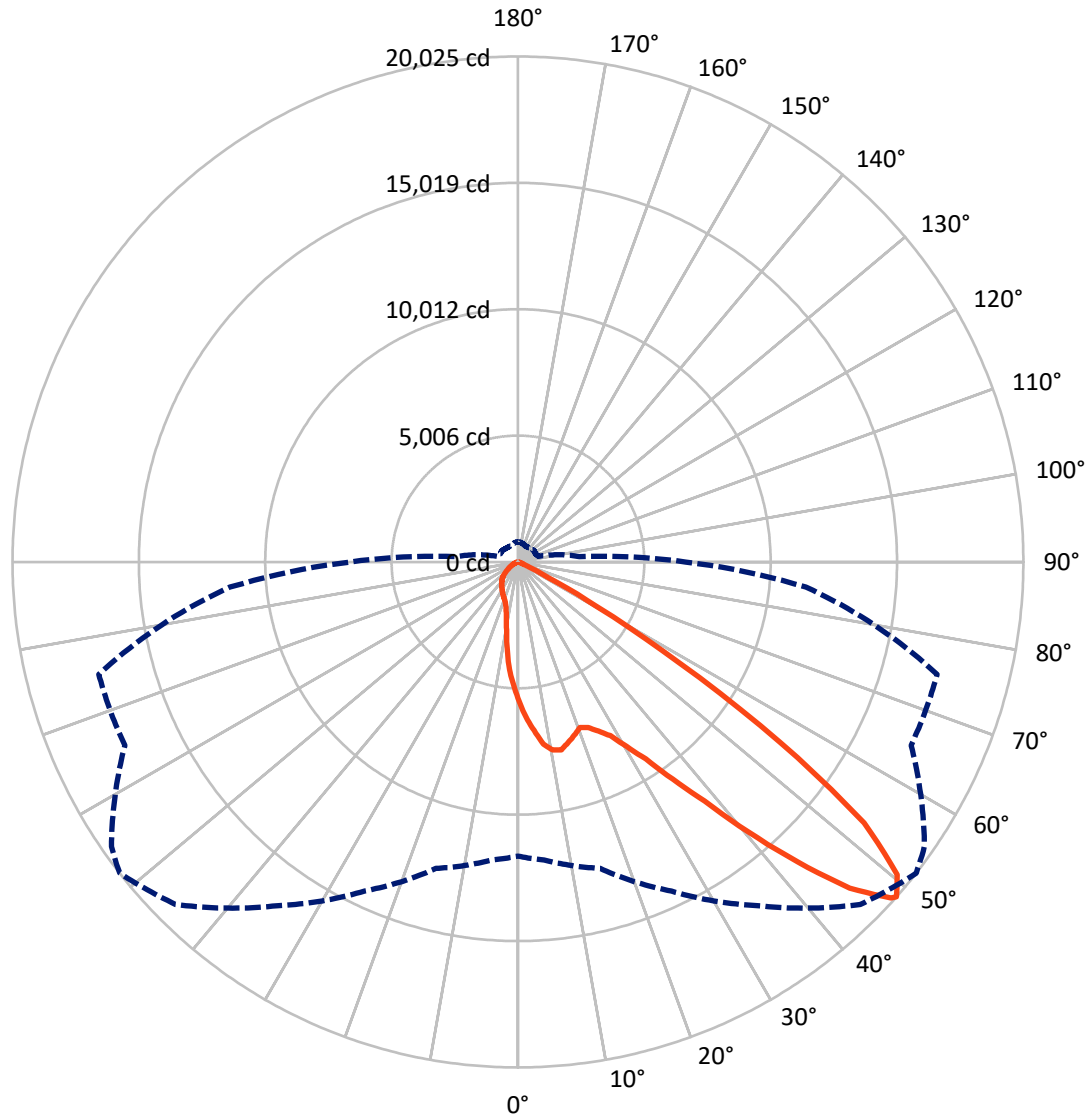
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type 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
House Side	Lumens	2324.6	0.0	2324.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	16767.4	0.0	16767.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	19092.0	0.0	19092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.6	2.6
10°-20°	1318.8	6.9
20°-30°	2251.7	11.8
30°-40°	4146.6	21.7
40°-50°	6439.6	33.7
50°-60°	3875.6	20.3
60°-70°	448.2	2.3
70°-80°	86.8	0.5
80°-90°	20.1	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°	19092.0	100.0
0°-180°	19092.0	100.0

Coefficient of Utilization



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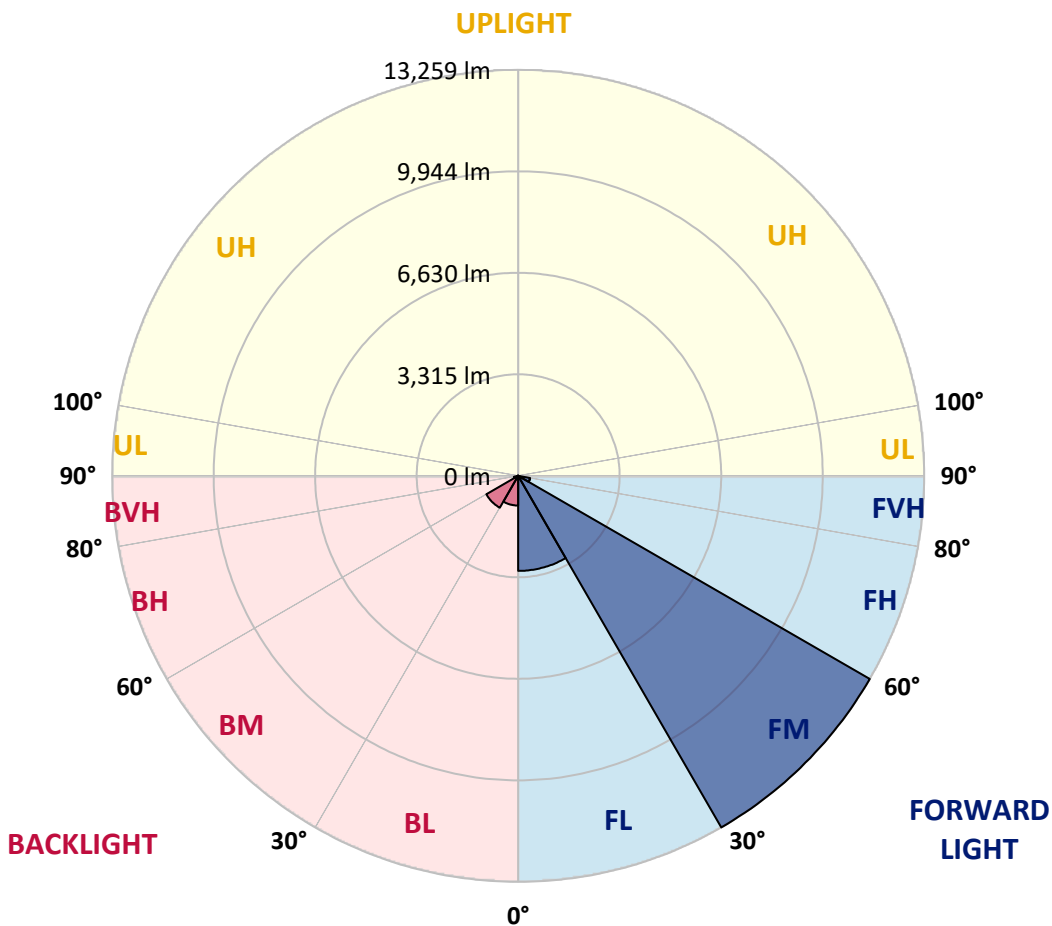
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3104.1	16.3			
FM (30°-60°)	13259.0	69.4			
FH (60°-80°)	394.7	2.1			G0/660
FVH (80°-90°)	9.5	0.0			G0/10
BL (0°-30°)	971.1	5.1	B2/1000		
BM (30°-60°)	1202.7	6.3	B2/2500		
BH (60°-80°)	140.3	0.7	B1/500		G1/500
BVH (80°-90°)	10.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5513.5	5513.5	5513.5	5513.5	5513.5	5513.5	5513.5	5513.5	5513.5	5513.5	5513.5
2.5°	6682.4	6529.3	6543.2	6443.0	6384.6	6290.0	6161.9	6136.9	5997.7	5808.5	5616.4
5°	7283.5	7247.4	7294.7	7150.0	7155.5	6999.7	6699.1	6704.6	6384.6	6075.7	5777.9
7.5°	7322.5	7239.0	7286.3	7414.4	7489.5	7461.7	7291.9	7144.4	6841.0	6387.4	5953.2
10°	6557.1	6715.8	6765.9	6977.4	7278.0	7595.3	7575.8	7584.1	7330.9	6738.0	6103.5
12.5°	6097.9	5992.2	6161.9	6290.0	6743.6	7358.7	7639.8	7701.0	7720.5	7077.6	6253.8
15°	5889.2	5889.2	5917.0	5953.2	6281.6	6849.4	7422.7	7600.8	8021.1	7522.9	6490.3
17.5°	6020.0	6014.4	6053.4	5978.2	6100.7	6537.7	7222.3	7425.5	8357.8	7959.9	6676.8
20°	6418.0	6437.5	6412.4	6195.3	6203.7	6532.1	6999.7	7319.7	8586.1	8338.4	6924.5
22.5°	6971.8	6983.0	6841.0	6604.5	6534.9	6696.3	7127.7	7372.6	8769.8	8792.0	6999.7
25°	7612.0	7567.4	7539.6	7205.6	6994.1	7133.3	7417.1	7559.1	8883.9	9181.7	7214.0
27.5°	8499.8	8410.7	8241.0	7943.2	7787.3	7589.7	7792.9	8026.7	9209.5	9727.2	7447.8
30°	9810.7	9732.7	9401.5	9017.5	8608.3	8413.5	8477.5	8605.6	9796.7	10358.9	7756.7
32.5°	11783.9	11619.7	11141.0	10409.0	9852.4	9315.3	9298.6	9434.9	10322.8	11232.9	8124.1
35°	13957.6	13907.5	13203.3	12449.1	11372.0	10542.6	10556.5	10628.9	11330.3	12379.5	8605.6
37.5°	15402.0	15677.6	15229.5	14419.6	13515.1	12329.4	12028.8	12053.9	12713.5	13737.7	9473.9
40°	16518.1	16284.3	16337.2	16147.9	15530.1	14722.9	14057.8	13927.0	14313.8	15240.6	10336.7
42.5°	16031.0	16042.2	16367.8	16815.9	16969.0	16910.5	16231.4	15983.7	15683.1	16470.8	11157.7
45°	14656.2	14942.8	15365.9	16551.5	17592.4	18569.3	18435.7	18023.8	16629.4	17444.9	11630.9
47.5°	12463.0	12451.9	13144.9	14686.8	16999.6	19287.3	19894.1	19604.6	17300.2	17336.3	11533.4
48°	11653.1	11853.5	12568.8	14383.4	16623.9	19181.6	20024.9	19660.3	17186.1	17191.6	11449.9
50°	8613.9	8577.7	9468.3	11694.9	14848.2	18023.8	19473.8	19757.7	17183.3	16459.6	10865.5
52.5°	4550.5	4706.3	5354.8	7353.1	10498.1	14750.8	17177.7	17620.2	16576.5	15262.9	10025.0
55°	1934.3	1747.8	2246.0	3320.3	5905.9	9855.2	12602.2	13587.4	14016.0	13506.7	8769.8
57.5°	690.2	754.2	868.3	1249.6	2482.6	5393.8	7514.5	8279.9	9710.5	9910.9	5975.5
60°	442.5	450.9	487.1	573.3	932.4	2079.0	3565.2	4174.7	4823.2	4979.1	2788.7
62.5°	342.3	345.1	361.8	375.7	442.5	807.1	1338.7	1586.4	1647.6	1416.6	732.0
65°	286.7	289.4	295.0	295.0	314.5	378.5	467.6	514.9	501.0	495.4	414.7
67.5°	219.9	225.4	236.6	236.6	247.7	231.0	258.8	275.5	311.7	378.5	353.5
70°	172.6	175.3	183.7	189.3	189.3	167.0	186.5	203.2	228.2	281.1	278.3
72.5°	133.6	139.2	144.7	144.7	136.4	114.1	133.6	147.5	164.2	194.8	189.3
75°	103.0	103.0	105.8	86.3	66.8	58.4	80.7	97.4	122.5	128.0	105.8
77.5°	27.8	30.6	27.8	25.0	27.8	41.7	52.9	61.2	77.9	77.9	69.6
80°	0.0	2.8	8.3	16.7	27.8	39.0	47.3	52.9	61.2	66.8	64.0
82.5°	0.0	2.8	8.3	16.7	25.0	30.6	41.7	44.5	50.1	58.4	58.4
85°	0.0	2.8	5.6	11.1	16.7	19.5	19.5	16.7	16.7	13.9	11.1
87.5°	0.0	0.0	2.8	5.6	5.6	8.3	8.3	8.3	8.3	8.3	8.3
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°	5513.5	5513.5	5513.5	5513.5	5513.5	5513.5	5513.5	5513.5	5513.5	5513.5	5513.5
2.5°	5541.3	5455.0	5324.2	5118.2	4920.6	4792.6	4670.2	4533.8	4458.6	4453.1	4411.3
5°	5608.1	5413.3	5101.5	4748.1	4369.6	4043.9	3715.5	3501.2	3309.2	3203.4	3183.9
7.5°	5644.3	5391.0	4887.2	4294.4	3648.7	3117.1	2749.8	2479.8	2374.0	2296.1	2293.3
10°	5719.4	5352.0	4567.2	3693.3	2894.5	2357.3	2104.1	1981.6	1923.2	1900.9	1867.5
12.5°	5775.1	5279.7	4238.8	3075.4	2287.8	1953.8	1842.5	1814.6	1817.4	1828.5	1814.6
15°	5853.0	5215.7	3796.2	2524.3	1920.4	1759.0	1759.0	1764.5	1803.5	1809.1	1806.3
17.5°	5847.4	5090.4	3339.8	2079.0	1697.7	1675.5	1683.8	1736.7	1761.7	1770.1	1750.6
20°	5914.2	4973.5	2869.4	1775.7	1572.5	1605.9	1661.6	1675.5	1706.1	1711.6	1689.4
22.5°	5894.7	4681.3	2432.5	1536.3	1477.9	1541.9	1597.5	1614.2	1605.9	1589.2	1586.4
25°	5858.6	4430.8	2031.7	1377.7	1408.3	1477.9	1530.7	1500.1	1483.4	1486.2	1489.0
27.5°	5794.6	4113.5	1700.5	1266.3	1313.7	1416.6	1413.8	1402.7	1419.4	1405.5	1419.4
30°	5783.4	3796.2	1427.8	1166.1	1244.1	1319.2	1324.8	1344.3	1363.8	1338.7	1363.8
32.5°	5800.1	3448.3	1232.9	1104.9	1202.3	1205.1	1266.3	1285.8	1271.9	1216.2	1221.8
35°	5928.1	3181.2	1091.0	1071.5	1135.5	1138.3	1196.8	1171.7	1110.5	1077.1	1096.6
37.5°	6198.1	2958.5	1024.2	1040.9	1046.5	1082.7	1085.4	1035.3	1040.9	1038.1	1049.3
40°	6543.2	2788.7	976.9	1013.1	1007.5	1032.6	932.4	960.2	985.2	993.6	999.2
42.5°	6779.8	2666.3	946.3	968.5	957.4	912.9	857.2	885.0	904.5	935.1	940.7
45°	6885.6	2568.9	910.1	890.6	890.6	809.9	787.6	793.2	837.7	871.1	865.6
47.5°	6713.0	2474.2	846.1	787.6	807.1	740.3	715.3	715.3	762.6	804.3	796.0
48°	6646.2	2435.3	848.9	765.4	779.3	729.2	704.1	698.6	751.5	790.4	790.4
50°	6315.0	2290.5	776.5	704.1	676.3	670.7	654.0	659.6	693.0	729.2	729.2
52.5°	5669.3	1978.8	656.8	603.9	553.9	587.2	595.6	584.5	601.2	634.6	631.8
55°	4731.4	1519.6	526.0	501.0	462.0	498.2	514.9	501.0	484.3	509.3	509.3
57.5°	3030.9	818.3	420.3	425.8	386.9	423.0	437.0	403.6	372.9	392.4	389.6
60°	1366.5	489.8	345.1	336.8	311.7	353.5	375.7	336.8	295.0	308.9	322.8
62.5°	512.1	347.9	261.6	256.1	250.5	289.4	300.6	270.0	228.2	236.6	239.4
65°	375.7	306.1	208.7	189.3	200.4	228.2	222.7	192.0	164.2	164.2	169.8
67.5°	320.1	267.2	169.8	147.5	147.5	150.3	139.2	122.5	114.1	119.7	125.2
70°	250.5	211.5	133.6	114.1	103.0	91.8	80.7	77.9	69.6	77.9	75.1
72.5°	161.4	141.9	103.0	86.3	77.9	64.0	52.9	50.1	41.7	39.0	39.0
75°	86.3	86.3	80.7	69.6	61.2	50.1	41.7	33.4	22.3	16.7	16.7
77.5°	61.2	66.8	72.4	66.8	55.7	41.7	33.4	22.3	11.1	5.6	5.6
80°	58.4	66.8	72.4	64.0	55.7	41.7	30.6	16.7	8.3	2.8	2.8
82.5°	52.9	61.2	66.8	58.4	50.1	36.2	27.8	16.7	8.3	2.8	2.8
85°	11.1	13.9	16.7	16.7	19.5	25.0	19.5	13.9	5.6	2.8	2.8
87.5°	8.3	8.3	8.3	8.3	8.3	8.3	5.6	5.6	2.8	2.8	2.8
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)