

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: P652018

Luminaire Tested: **GALN-SA7A-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652018
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-SA7A-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA 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: 15802.4 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

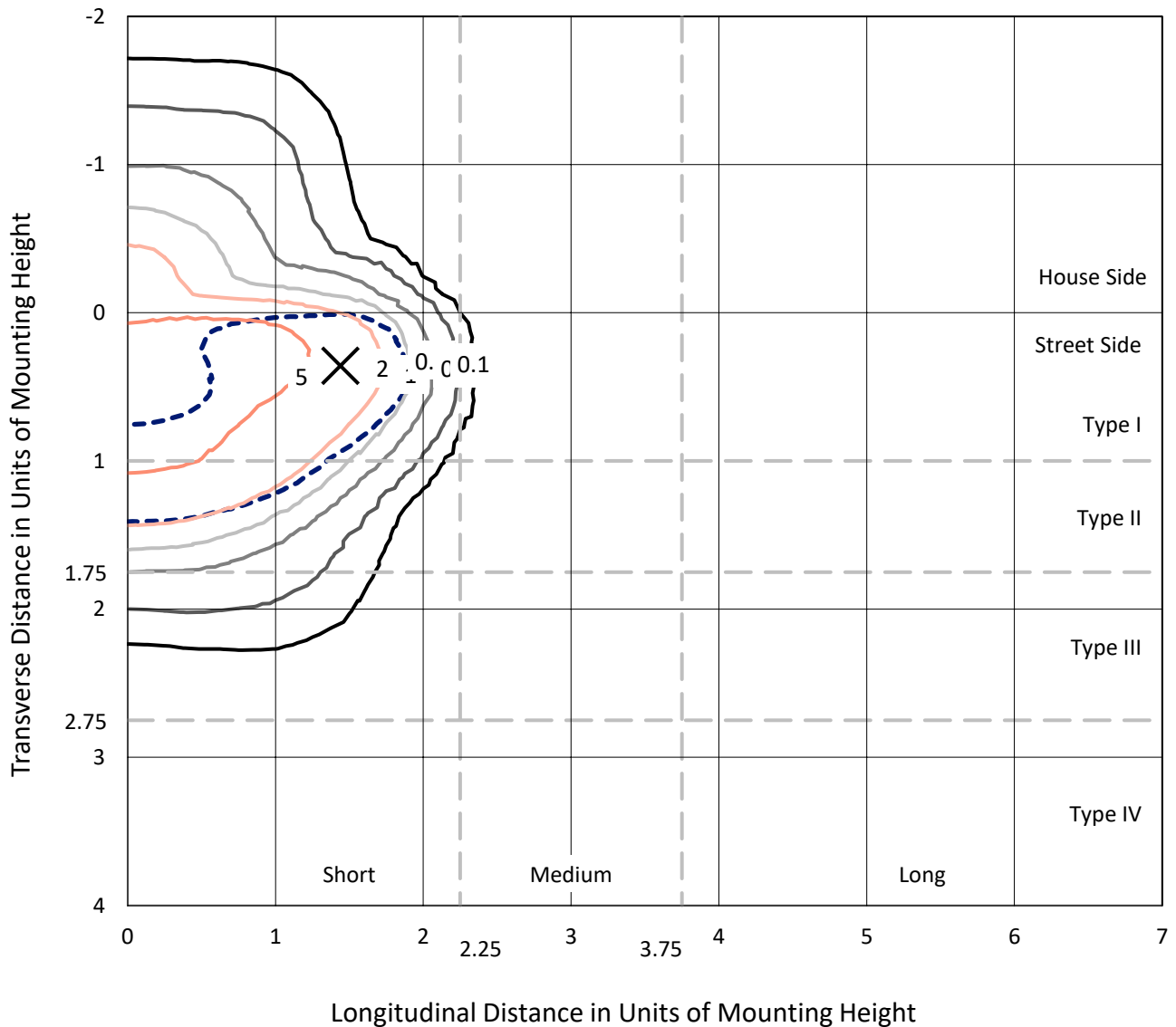
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

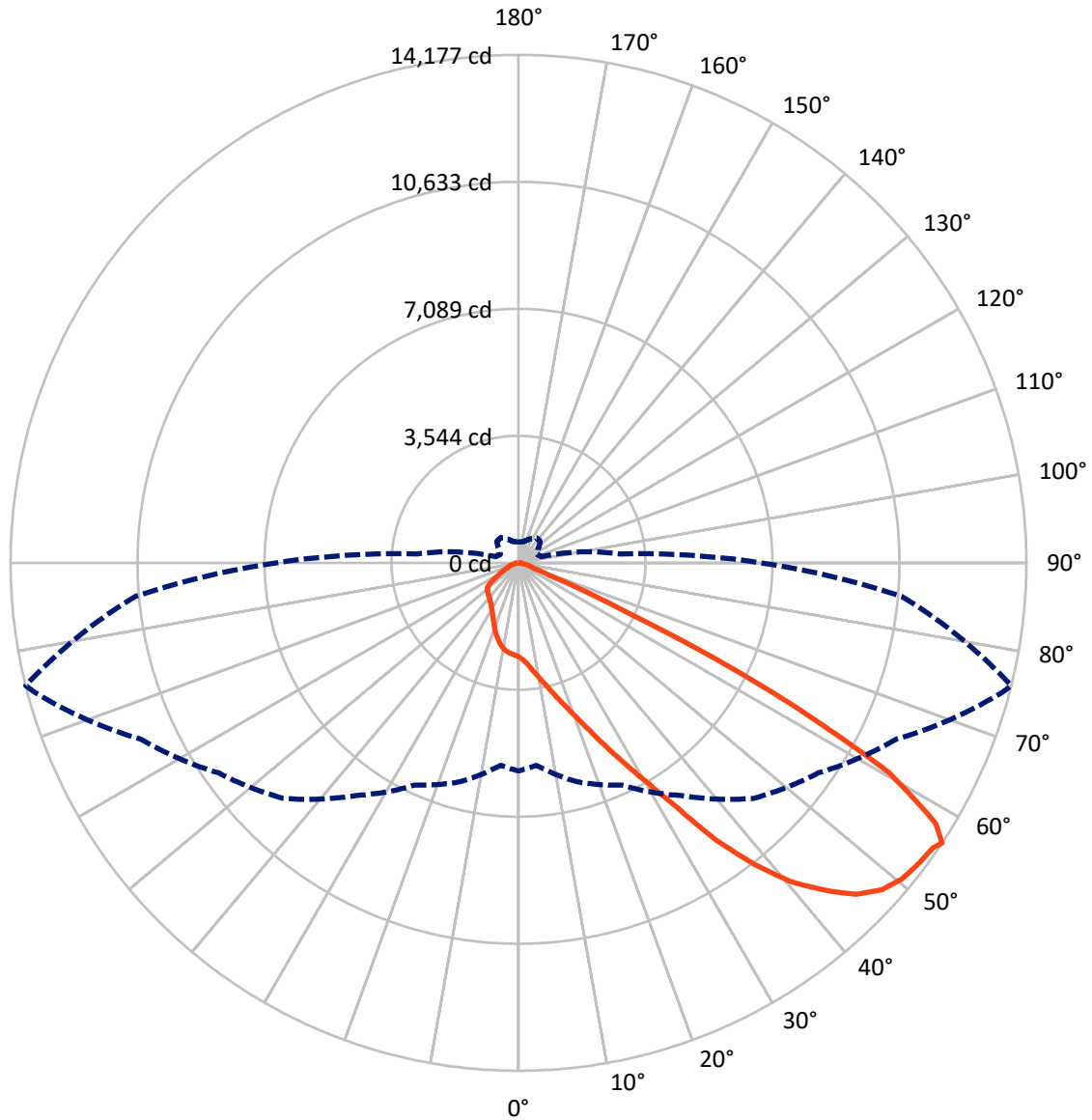
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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
House Side	Lumens	2482.5	0.0	2482.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	13319.9	0.0	13319.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	15802.4	0.0	15802.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.0	1.7
10°-20°	851.2	5.4
20°-30°	1543.5	9.8
30°-40°	2661.9	16.8
40°-50°	4324.3	27.4
50°-60°	4558.0	28.8
60°-70°	1392.7	8.8
70°-80°	178.5	1.1
80°-90°	27.1	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°	15802.4	100.0
0°-180°	15802.4	100.0

Coefficient of Utilization



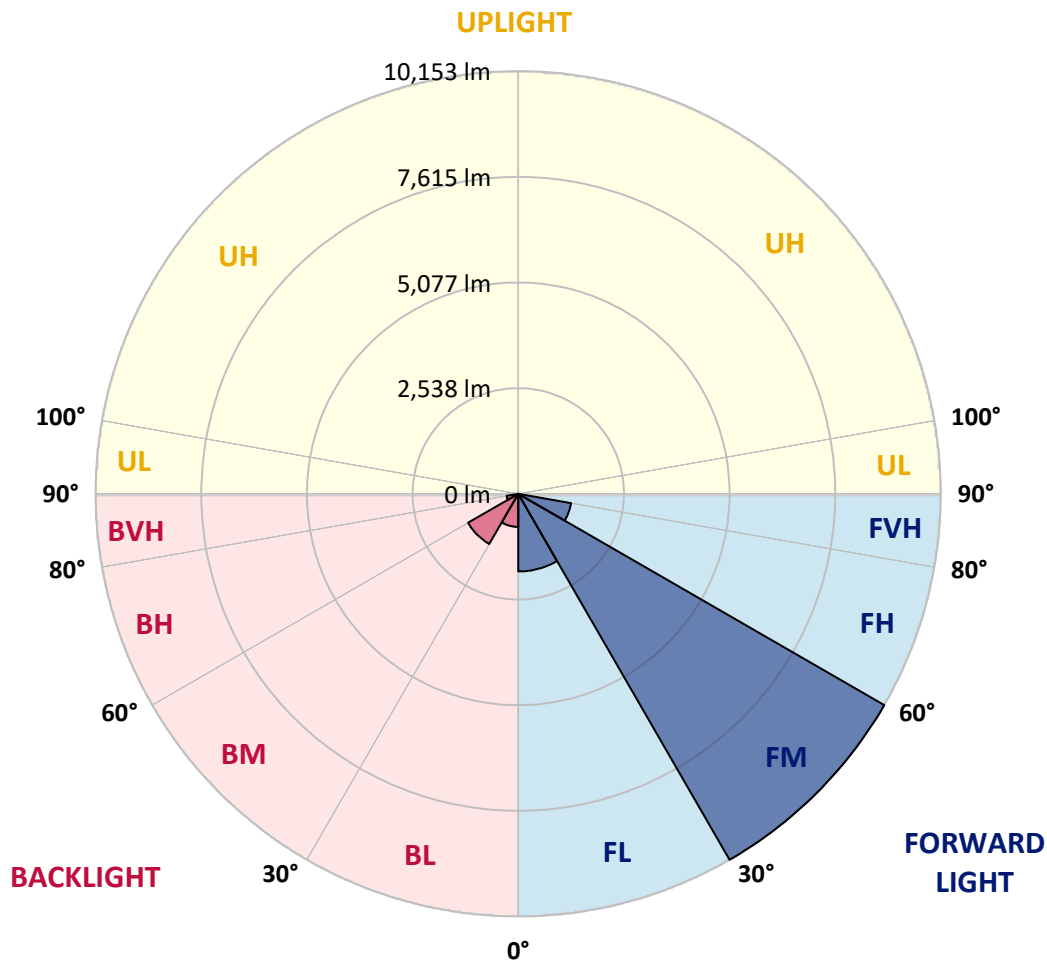
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1865.6	11.8			
FM (30°-60°)	10153.0	64.2			
FH (60°-80°)	1288.0	8.2			G1/1800
FVH (80°-90°)	13.3	0.1			G1/100
BL (0°-30°)	794.1	5.0	B2/1000		
BM (30°-60°)	1391.3	8.8	B2/2500		
BH (60°-80°)	283.2	1.8	B1/500		G1/500
BVH (80°-90°)	13.8	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°	55°	65°	75°	76°	85°
0°	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3
2.5°	3029.4	2959.5	2962.4	2956.5	2947.9	2915.8	2819.7	2805.1	2741.0	2723.6	2665.3
5°	3393.5	3332.3	3367.3	3314.9	3265.4	3236.3	3078.9	3006.1	2904.1	2866.3	2784.7
7.5°	3620.7	3591.6	3580.0	3582.8	3536.2	3463.4	3393.5	3233.3	3096.4	3067.3	2895.4
10°	3731.4	3713.9	3731.4	3722.7	3743.0	3751.8	3629.4	3533.3	3332.3	3282.8	3014.8
12.5°	3757.6	3792.6	3807.1	3845.0	3894.5	3979.0	3970.3	3839.2	3571.2	3539.2	3198.3
15°	3821.7	3850.9	3836.3	3897.4	3990.6	4133.3	4209.1	4188.7	3900.3	3842.1	3411.0
17.5°	3880.0	3827.6	3877.0	3999.4	4092.6	4311.1	4494.6	4579.1	4258.7	4191.6	3606.1
20°	3958.6	3944.0	3935.3	3996.4	4162.5	4453.8	4817.9	4972.3	4660.6	4590.7	3885.8
22.5°	4197.4	4200.4	4194.6	4104.2	4223.7	4552.8	5100.4	5482.1	5141.2	5083.0	4203.3
25°	4512.0	4474.2	4445.0	4372.3	4357.6	4643.2	5385.9	6105.4	5718.0	5677.2	4547.0
27.5°	4844.2	4844.2	4756.7	4689.8	4596.5	4867.5	5648.1	6711.3	6414.1	6358.8	4847.0
30°	5205.3	5225.7	5214.0	5071.3	5013.0	5112.1	5916.1	7486.1	7212.3	7142.4	5342.2
32.5°	5738.4	5694.7	5744.2	5624.8	5452.9	5540.3	6338.4	8179.4	8249.3	8150.2	5991.8
35°	6443.3	6417.1	6385.0	6189.8	5986.0	6055.9	6935.6	9032.8	9551.3	9501.8	6647.2
37.5°	7075.4	7060.8	7034.6	6900.6	6664.7	6749.1	7614.2	9921.3	10821.3	10658.2	7573.5
40°	7739.6	7818.2	7733.7	7614.2	7398.7	7585.1	8412.4	10448.5	11890.4	11692.3	8281.3
42.5°	8639.6	8578.5	8616.3	8397.8	8281.3	8485.2	9213.4	10975.7	12720.5	12484.6	9032.8
45°	9597.9	9600.9	9498.9	9429.0	9126.0	9347.5	9705.7	11267.0	13381.7	13198.2	9600.9
47.5°	10212.6	10209.7	10320.3	10431.0	10119.3	9900.8	10040.7	11543.7	13722.6	13638.1	9807.7
50°	10116.5	10145.6	10288.3	10701.9	10865.0	10570.9	10355.3	11462.2	13877.0	13868.3	9985.4
52.5°	8799.8	8895.9	9134.8	9732.0	10553.4	10917.4	10684.5	11613.6	13952.7	13967.2	10250.4
55°	6699.7	6752.1	7206.4	7931.8	8840.6	10087.3	10553.4	11733.0	14011.0	14037.2	10570.9
56°	5811.2	5671.4	6326.8	6842.4	7928.9	9292.1	10221.3	11639.9	13976.0	14177.0	10731.1
57.5°	4386.8	4293.6	4823.7	5467.5	6513.2	7952.2	9190.1	11200.0	13740.1	13737.1	10500.9
60°	2668.2	2575.0	2982.8	3361.5	3947.0	4896.6	6210.3	8919.2	11616.6	11861.2	8502.7
62.5°	1587.6	1645.8	2047.8	2277.8	2467.2	2566.2	3212.9	5301.4	7751.2	7925.9	5275.3
65°	1057.4	1077.7	1380.7	1759.4	1843.9	1468.1	1307.9	2146.8	3361.5	3253.7	2175.9
67.5°	652.4	699.1	926.3	1322.5	1465.2	1071.9	620.4	801.1	926.3	926.3	629.2
70°	396.1	419.5	617.5	900.0	1004.9	690.4	451.5	451.5	445.6	436.9	375.8
72.5°	189.3	203.9	314.6	463.1	471.9	364.1	349.5	381.6	372.8	370.0	311.7
75°	81.6	87.4	110.7	145.7	166.0	154.4	212.6	273.8	282.6	273.8	224.3
77.5°	26.2	29.1	40.8	52.4	55.3	67.0	90.3	113.6	131.1	122.4	110.7
80°	2.9	5.8	11.7	26.2	40.8	52.4	67.0	75.8	84.4	84.4	78.6
82.5°	2.9	2.9	11.7	23.3	37.8	49.5	64.1	72.8	84.4	87.4	81.6
85°	0.0	2.9	8.7	20.4	32.0	32.0	29.1	29.1	20.4	20.4	20.4
87.5°	0.0	0.0	2.9	2.9	2.9	5.8	5.8	5.8	5.8	5.8	5.8
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°	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3	2630.3
2.5°	2653.6	2647.8	2569.2	2519.6	2493.4	2441.0	2409.0	2385.7	2368.2	2347.8	2350.7
5°	2688.6	2668.2	2537.1	2446.8	2339.1	2280.8	2231.3	2190.5	2164.2	2158.4	2146.8
7.5°	2787.7	2679.8	2481.8	2318.6	2181.7	2123.5	2079.8	2053.6	2065.2	2039.0	2059.4
10°	2863.4	2703.1	2414.8	2178.9	2041.9	1998.2	1974.9	1995.4	2024.5	2012.8	1998.2
12.5°	2956.5	2726.4	2307.0	2044.8	1916.6	1884.6	1925.4	1963.3	2021.5	2044.8	2015.7
15°	3061.4	2752.7	2170.1	1890.5	1808.9	1835.1	1905.0	1972.1	2030.3	2059.4	2076.8
17.5°	3189.6	2743.9	2036.1	1768.1	1707.0	1782.7	1867.2	1928.3	2015.7	2059.4	2047.8
20°	3309.0	2714.8	1887.5	1645.8	1648.7	1718.6	1788.5	1887.5	1934.1	1992.4	1972.1
22.5°	3422.6	2662.4	1733.1	1561.3	1561.3	1669.0	1704.0	1768.1	1808.9	1838.0	1835.1
25°	3582.8	2563.4	1605.0	1479.7	1514.7	1584.6	1613.7	1634.1	1616.7	1640.0	1642.9
27.5°	3696.4	2461.4	1500.1	1406.9	1471.0	1523.5	1514.7	1503.0	1462.2	1430.2	1450.6
30°	3818.8	2341.9	1409.9	1357.4	1392.4	1439.0	1404.0	1369.1	1305.0	1252.5	1255.4
32.5°	3993.6	2286.6	1331.2	1299.2	1345.8	1351.6	1313.7	1261.2	1197.2	1147.7	1144.8
35°	4319.8	2251.7	1264.2	1261.2	1270.0	1272.9	1235.1	1171.0	1144.8	1104.0	1118.5
37.5°	4646.0	2234.2	1217.6	1205.9	1203.1	1205.9	1162.3	1101.0	1150.6	1147.7	1153.5
40°	5062.6	2312.8	1150.6	1136.0	1139.0	1139.0	1083.6	1066.1	1153.5	1162.3	1165.1
42.5°	5484.9	2411.9	1106.9	1060.2	1071.9	1071.9	1042.8	1022.4	1083.6	1025.3	1016.6
45°	5852.0	2557.5	1060.2	984.6	1013.7	1028.2	1019.5	984.6	946.7	847.6	847.6
47.5°	5971.4	2685.6	1004.9	911.7	935.0	999.1	972.9	900.0	833.1	751.5	745.7
50°	6181.1	2825.5	961.3	827.3	876.7	955.5	929.2	856.4	780.6	722.4	725.3
52.5°	6396.6	2985.7	879.7	728.2	789.4	920.5	920.5	838.9	722.4	681.6	675.8
55°	6720.0	2979.9	734.0	597.1	704.9	868.1	882.6	751.5	646.6	614.6	614.6
56°	6766.6	2845.9	661.2	559.3	667.1	853.4	856.4	728.2	617.5	582.6	582.6
57.5°	6417.1	2569.2	579.7	512.7	620.4	827.3	830.2	707.9	594.3	544.7	538.9
60°	4937.3	1739.0	483.6	457.3	562.2	745.7	760.3	643.8	521.4	483.6	480.6
62.5°	2787.7	964.1	425.3	413.6	483.6	635.0	678.7	562.2	442.8	422.4	428.2
65°	1272.9	530.2	358.3	335.0	390.3	489.4	547.7	463.1	364.1	340.8	340.8
67.5°	466.1	361.2	305.9	265.1	273.8	317.5	355.4	300.0	241.8	206.8	215.5
70°	332.0	302.9	268.0	230.1	212.6	206.8	203.9	169.0	119.4	93.2	99.1
72.5°	268.0	250.5	224.3	195.2	166.0	139.9	119.4	87.4	55.3	37.8	35.0
75°	192.3	183.5	163.2	139.9	116.5	99.1	81.6	55.3	29.1	14.5	14.5
77.5°	99.1	99.1	96.1	87.4	72.8	58.3	46.6	32.0	17.5	5.8	5.8
80°	75.8	81.6	84.4	75.8	67.0	52.4	37.8	23.3	11.7	2.9	2.9
82.5°	72.8	84.4	90.3	78.6	67.0	49.5	37.8	23.3	11.7	2.9	2.9
85°	17.5	17.5	26.2	29.1	37.8	40.8	32.0	20.4	8.7	2.9	2.9
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	2.9	2.9	2.9	2.9	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)