

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: P532205

Luminaire Tested: **GALN-SA7C-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532205
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-SA7C-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA 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: 36530 lumens
Efficiency: N/A
Efficacy: 96.9 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

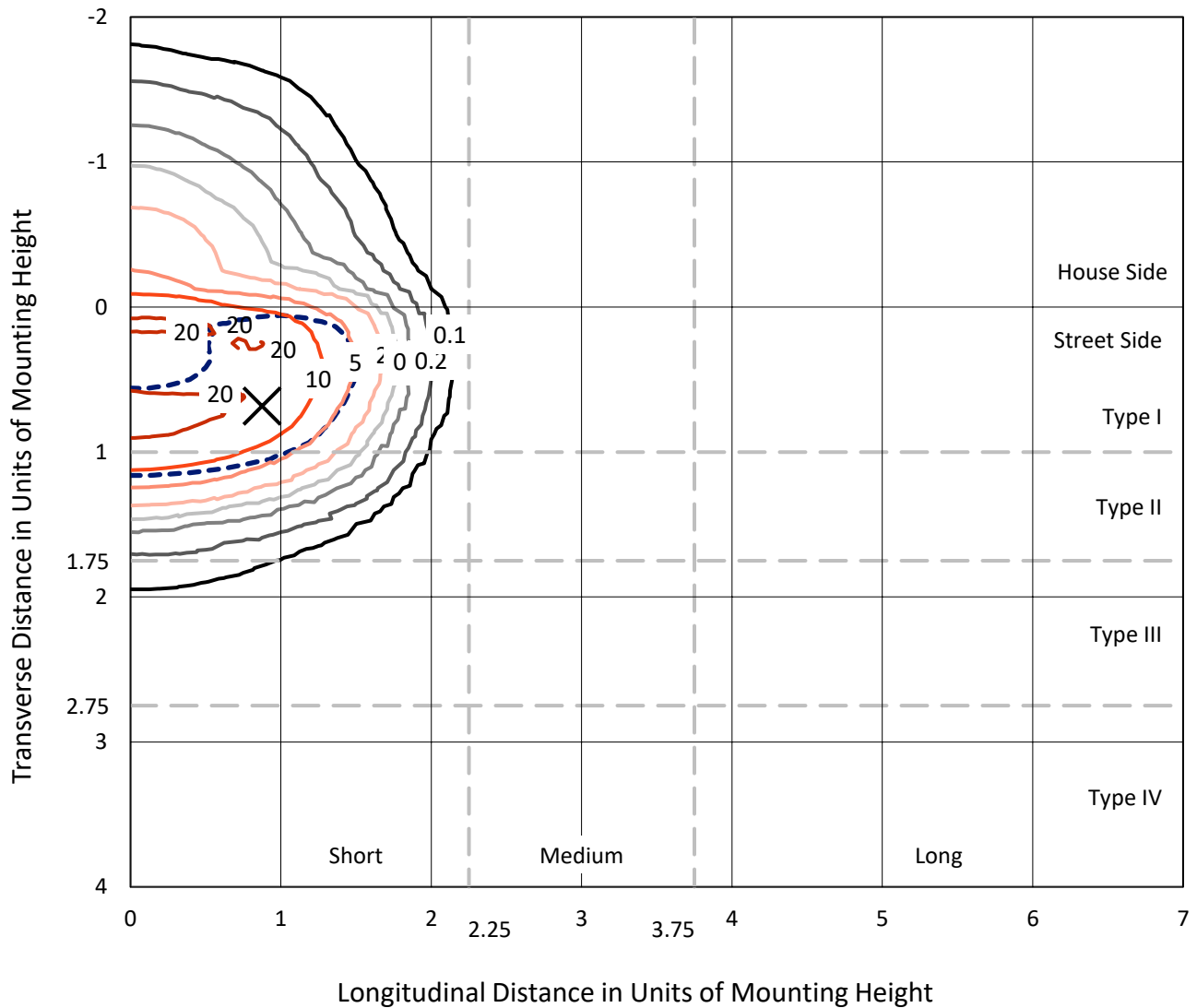
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

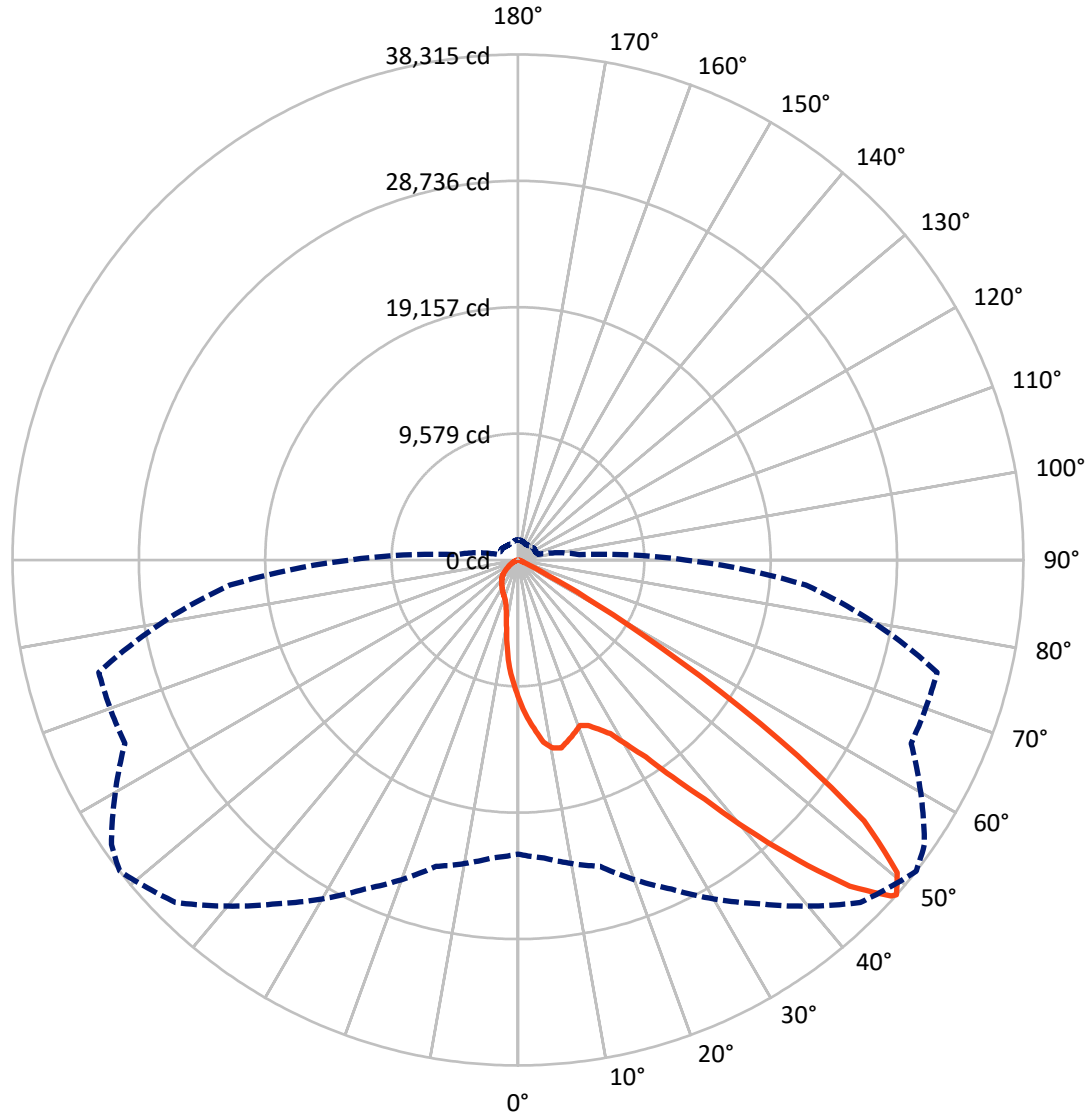
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 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	4447.8	0.0	4447.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	32082.2	0.0	32082.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	36530.0	0.0	36530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	965.6	2.6
10°-20°	2523.4	6.9
20°-30°	4308.4	11.8
30°-40°	7933.9	21.7
40°-50°	12321.3	33.7
50°-60°	7415.4	20.3
60°-70°	857.7	2.3
70°-80°	166.0	0.5
80°-90°	38.4	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°	36530.0	100.0
0°-180°	36530.0	100.0

Coefficient of Utilization

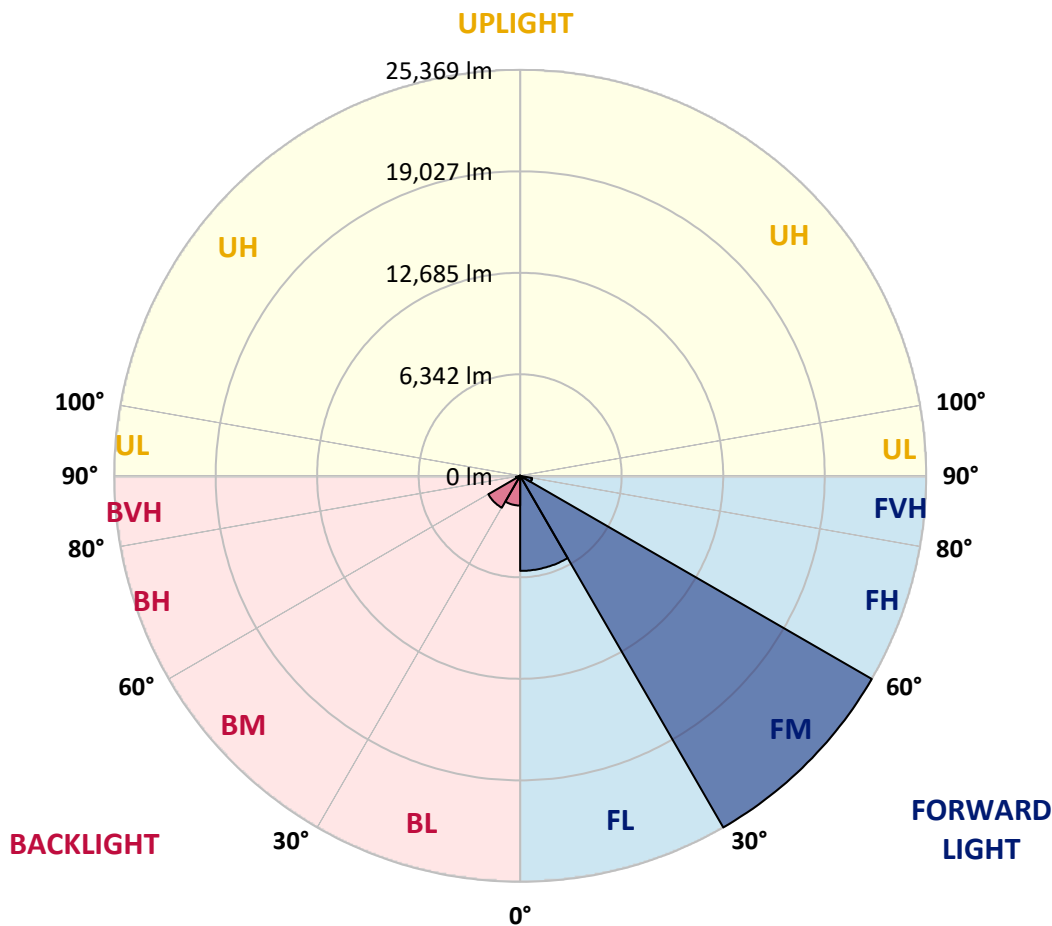


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5939.3	16.3			
FM (30°-60°)	25369.4	69.4			
FH (60°-80°)	755.2	2.1			G1/1800
FVH (80°-90°)	18.3	0.1			G1/100
BL (0°-30°)	1858.0	5.1	B3/2500		
BM (30°-60°)	2301.3	6.3	B2/2500		
BH (60°-80°)	268.4	0.7	B1/500		G1/500
BVH (80°-90°)	20.1	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°	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3
2.5°	12785.8	12493.0	12519.6	12327.9	12216.1	12035.0	11790.0	11742.1	11475.8	11113.7	10746.3
5°	13936.1	13866.9	13957.4	13680.5	13691.1	13392.9	12817.8	12828.5	12216.1	11625.0	11055.2
7.5°	14010.6	13850.9	13941.4	14186.4	14330.2	14276.9	13952.1	13669.8	13089.4	12221.4	11390.6
10°	12546.2	12849.8	12945.6	13350.3	13925.4	14532.5	14495.2	14511.2	14026.6	12892.4	11678.2
12.5°	11667.6	11465.2	11790.0	12035.0	12903.0	14079.9	14617.7	14734.9	14772.2	13542.0	11965.8
15°	11268.2	11268.2	11321.4	11390.6	12019.0	13105.4	14202.4	14543.2	15347.3	14394.1	12418.4
17.5°	11518.4	11507.8	11582.3	11438.6	11672.9	12508.9	13818.9	14207.7	15991.6	15230.1	12775.2
20°	12280.0	12317.2	12269.3	11853.9	11869.9	12498.3	13392.9	14005.3	16428.3	15954.4	13249.1
22.5°	13339.7	13361.0	13089.4	12636.7	12503.6	12812.5	13637.9	14106.5	16779.8	16822.4	13392.9
25°	14564.5	14479.3	14426.0	13787.0	13382.3	13648.5	14191.7	14463.3	16998.1	17567.9	13803.0
27.5°	16263.2	16092.8	15768.0	15198.2	14900.0	14521.9	14910.6	15357.9	17621.1	18611.6	14250.3
30°	18771.4	18622.3	17988.6	17253.7	16470.9	16098.1	16220.6	16465.6	18744.8	19820.5	14841.4
32.5°	22547.0	22232.8	21316.8	19916.3	18851.3	17823.5	17791.6	18052.5	19751.2	21492.6	15544.3
35°	26706.0	26610.1	25262.8	23819.7	21758.8	20171.9	20198.6	20337.0	21679.0	23686.6	16465.6
37.5°	29469.8	29997.0	29139.6	27590.0	25859.3	23590.7	23015.6	23063.5	24325.6	26285.3	18127.0
40°	31605.2	31157.9	31259.0	30896.9	29714.7	28170.4	26897.7	26647.4	27387.6	29160.9	19777.9
42.5°	30673.3	30694.6	31317.6	32175.0	32467.9	32356.0	31056.7	30582.7	30007.6	31514.6	21348.8
45°	28042.6	28591.1	29400.5	31669.1	33660.7	35529.9	35274.2	34486.1	31818.2	33378.5	22254.1
47.5°	23846.3	23825.0	25151.0	28101.2	32526.4	36903.8	38064.7	37510.8	33101.6	33170.8	22067.7
48°	22296.7	22680.1	24048.7	27520.7	31807.5	36701.4	38314.9	37617.3	32883.2	32893.9	21907.9
50°	16481.6	16412.3	18116.4	22376.6	28410.0	34486.1	37260.6	37803.7	32877.9	31493.3	20789.7
52.5°	8706.7	9004.9	10245.7	14069.2	20086.7	28223.7	32867.2	33714.0	31717.0	29203.5	19181.4
55°	3701.0	3344.2	4297.5	6353.0	11300.1	18856.6	24112.6	25997.7	26817.8	25843.3	16779.8
57.5°	1320.7	1443.1	1661.5	2391.0	4750.1	10320.3	14378.1	15842.5	18579.7	18963.1	11433.2
60°	846.7	862.7	931.9	1097.0	1783.9	3977.9	6821.6	7987.8	9228.6	9526.8	5335.9
62.5°	655.0	660.3	692.3	718.9	846.7	1544.3	2561.4	3035.4	3152.5	2710.5	1400.5
65°	548.5	553.8	564.5	564.5	601.7	724.2	894.6	985.2	958.5	947.9	793.5
67.5°	420.7	431.3	452.6	452.6	473.9	442.0	495.2	527.2	596.4	724.2	676.3
70°	330.2	335.5	351.5	362.1	362.1	319.5	356.8	388.7	436.7	537.8	532.5
72.5°	255.6	266.3	276.9	276.9	260.9	218.3	255.6	282.2	314.2	372.8	362.1
75°	197.0	197.0	202.4	165.1	127.8	111.8	154.4	186.4	234.3	245.0	202.4
77.5°	53.3	58.6	53.3	47.9	53.3	79.9	101.2	117.2	149.1	149.1	133.1
80°	0.0	5.3	16.0	32.0	53.3	74.6	90.5	101.2	117.2	127.8	122.5
82.5°	0.0	5.3	16.0	32.0	47.9	58.6	79.9	85.2	95.9	111.8	111.8
85°	0.0	5.3	10.7	21.3	32.0	37.3	37.3	32.0	32.0	26.6	21.3
87.5°	0.0	0.0	5.3	10.7	10.7	16.0	16.0	16.0	16.0	16.0	16.0
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°	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3	10549.3
2.5°	10602.5	10437.4	10187.1	9793.1	9415.0	9170.0	8935.7	8674.8	8531.0	8520.3	8440.5
5°	10730.3	10357.5	9761.1	9084.8	8360.6	7737.5	7109.2	6699.1	6331.7	6129.3	6092.0
7.5°	10799.5	10314.9	9351.1	8216.8	6981.4	5964.2	5261.3	4744.8	4542.4	4393.3	4388.0
10°	10943.3	10240.4	8738.7	7066.6	5538.2	4510.5	4025.9	3791.6	3679.7	3637.1	3573.2
12.5°	11049.8	10101.9	8110.3	5884.4	4377.3	3738.3	3525.3	3472.0	3477.4	3498.7	3472.0
15°	11198.9	9979.5	7263.6	4830.0	3674.4	3365.5	3365.5	3376.2	3450.7	3461.4	3456.1
17.5°	11188.3	9739.8	6390.3	3977.9	3248.4	3205.8	3221.8	3322.9	3370.9	3386.8	3349.6
20°	11316.1	9516.2	5490.3	3397.5	3008.7	3072.7	3179.2	3205.8	3264.4	3275.0	3232.4
22.5°	11278.8	8957.0	4654.2	2939.5	2827.7	2950.2	3056.7	3088.6	3072.7	3040.7	3035.4
25°	11209.6	8477.7	3887.4	2636.0	2694.6	2827.7	2928.9	2870.3	2838.3	2843.7	2849.0
27.5°	11087.1	7870.7	3253.7	2423.0	2513.5	2710.5	2705.2	2683.9	2715.9	2689.2	2715.9
30°	11065.8	7263.6	2731.8	2231.3	2380.4	2524.2	2534.8	2572.1	2609.4	2561.4	2609.4
32.5°	11097.8	6597.9	2359.1	2114.1	2300.5	2305.8	2423.0	2460.3	2433.6	2327.1	2337.8
35°	11342.7	6086.7	2087.5	2050.2	2172.7	2178.0	2289.8	2241.9	2124.8	2060.9	2098.1
37.5°	11859.3	5660.7	1959.7	1991.6	2002.3	2071.5	2076.8	1981.0	1991.6	1986.3	2007.6
40°	12519.6	5335.9	1869.2	1938.4	1927.7	1975.7	1783.9	1837.2	1885.1	1901.1	1911.8
42.5°	12972.2	5101.6	1810.6	1853.2	1831.9	1746.7	1640.2	1693.4	1730.7	1789.3	1799.9
45°	13174.6	4915.2	1741.3	1704.1	1704.1	1549.6	1507.0	1517.7	1602.9	1666.8	1656.1
47.5°	12844.4	4734.1	1618.9	1507.0	1544.3	1416.5	1368.6	1368.6	1459.1	1539.0	1523.0
48°	12716.6	4659.6	1624.2	1464.4	1491.1	1395.2	1347.3	1336.6	1437.8	1512.4	1512.4
50°	12082.9	4382.7	1485.7	1347.3	1294.0	1283.4	1251.4	1262.1	1326.0	1395.2	1395.2
52.5°	10847.5	3786.2	1256.8	1155.6	1059.7	1123.6	1139.6	1118.3	1150.2	1214.1	1208.8
55°	9052.9	2907.6	1006.5	958.5	884.0	953.2	985.2	958.5	926.6	974.5	974.5
57.5°	5799.2	1565.6	804.1	814.8	740.2	809.4	836.1	772.2	713.6	750.9	745.5
60°	2614.7	937.2	660.3	644.4	596.4	676.3	718.9	644.4	564.5	591.1	617.7
62.5°	979.8	665.7	500.6	489.9	479.3	553.8	575.1	516.5	436.7	452.6	458.0
65°	718.9	585.8	399.4	362.1	383.4	436.7	426.0	367.4	314.2	314.2	324.8
67.5°	612.4	511.2	324.8	282.2	282.2	287.6	266.3	234.3	218.3	229.0	239.6
70°	479.3	404.7	255.6	218.3	197.0	175.7	154.4	149.1	133.1	149.1	143.8
72.5°	308.9	271.6	197.0	165.1	149.1	122.5	101.2	95.9	79.9	74.6	74.6
75°	165.1	165.1	154.4	133.1	117.2	95.9	79.9	63.9	42.6	32.0	32.0
77.5°	117.2	127.8	138.5	127.8	106.5	79.9	63.9	42.6	21.3	10.7	10.7
80°	111.8	127.8	138.5	122.5	106.5	79.9	58.6	32.0	16.0	5.3	5.3
82.5°	101.2	117.2	127.8	111.8	95.9	69.2	53.3	32.0	16.0	5.3	5.3
85°	21.3	26.6	32.0	32.0	37.3	47.9	37.3	26.6	10.7	5.3	5.3
87.5°	16.0	16.0	16.0	16.0	16.0	16.0	10.7	10.7	5.3	5.3	5.3
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)