

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: P532455

Luminaire Tested: **GALN-SA7D-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32177 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

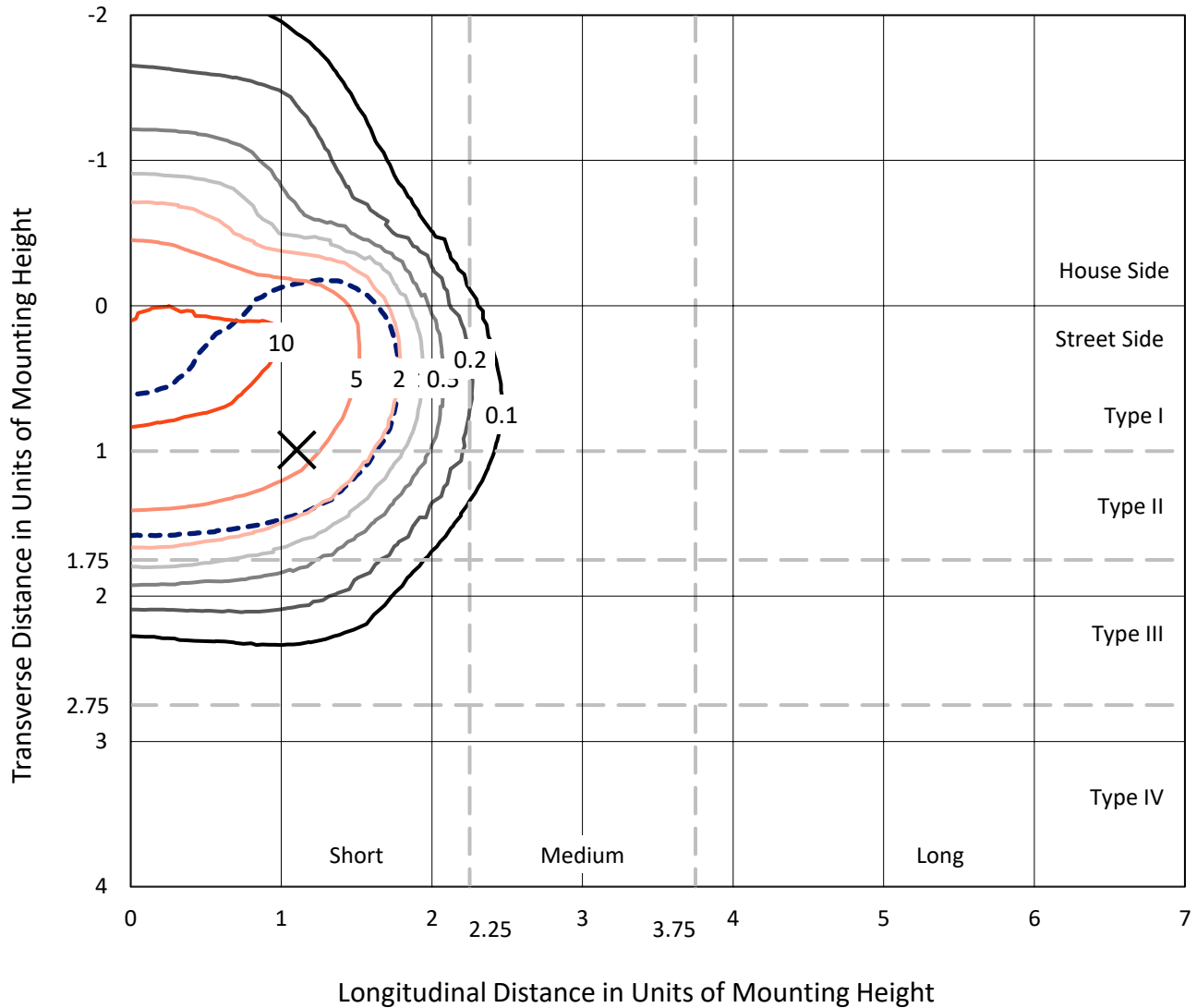
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

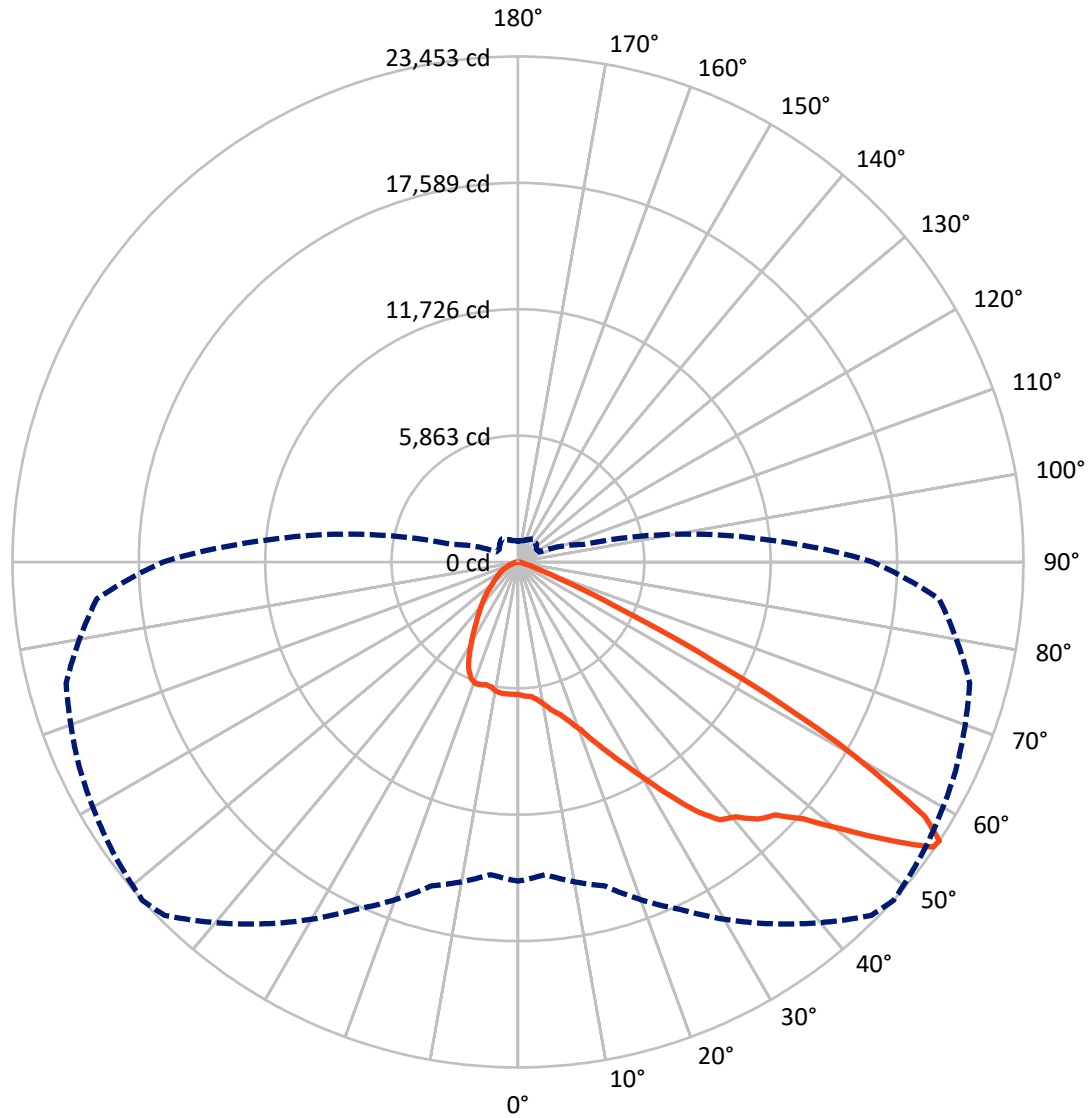
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6997.9	0.0	6997.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	25179.1	0.0	25179.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	32177.0	0.0	32177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.7	1.9
10°-20°	1913.2	5.9
20°-30°	3470.2	10.8
30°-40°	5451.1	16.9
40°-50°	7952.1	24.7
50°-60°	9580.8	29.8
60°-70°	2805.2	8.7
70°-80°	355.9	1.1
80°-90°	49.9	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°	32177.0	100.0
0°-180°	32177.0	100.0

Coefficient of Utilization

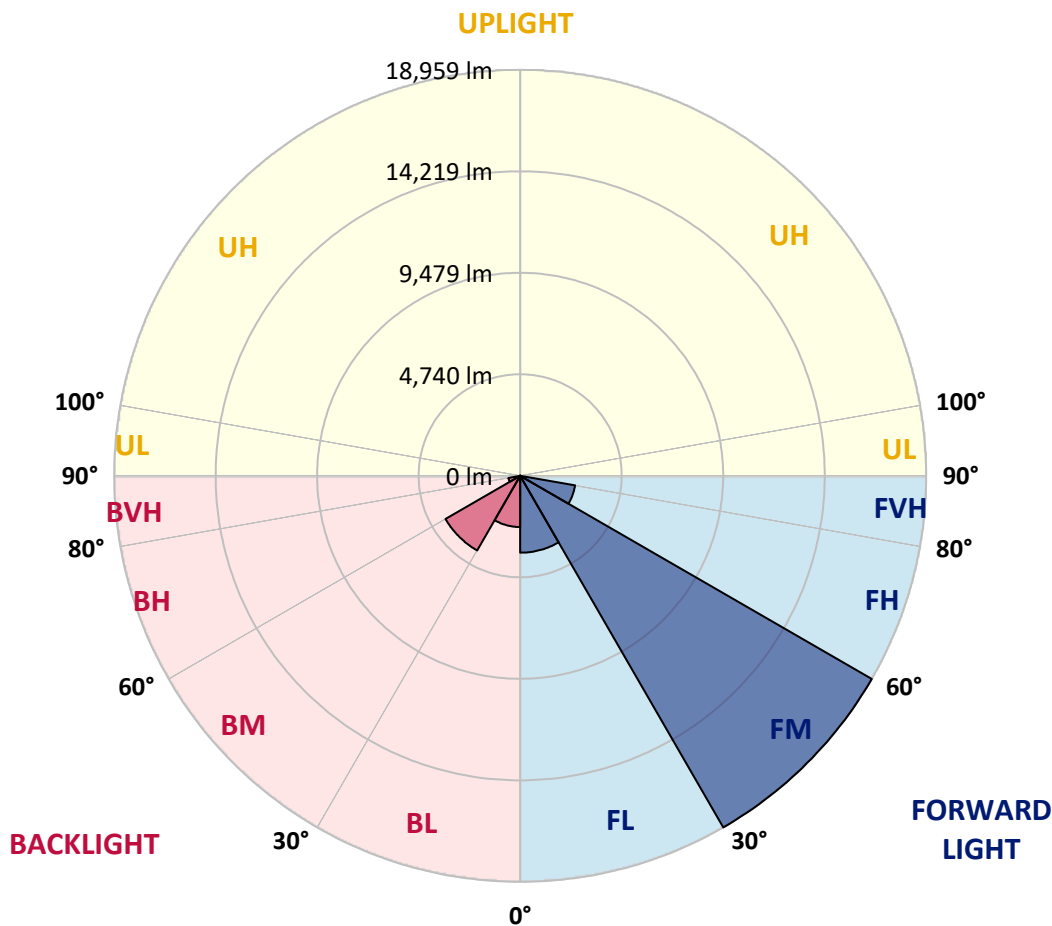


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3590.3	11.2			
FM (30°-60°)	18958.8	58.9			
FH (60°-80°)	2605.0	8.1			G2/5000
FVH (80°-90°)	25.1	0.1			G1/100
BL (0°-30°)	2391.9	7.4	B3/2500		
BM (30°-60°)	4025.1	12.5	B3/5000		
BH (60°-80°)	556.0	1.7	B2/1000		G2/1000
BVH (80°-90°)	24.9	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	6145.8	6145.8	6145.8	6145.8	6145.8	6145.8	6145.8	6145.8	6145.8	6145.8	6145.8
2.5°	6257.1	6227.8	6227.8	6181.0	6233.7	6210.3	6227.8	6169.3	6227.8	6140.0	6210.3
5°	6286.4	6292.3	6268.9	6298.1	6298.1	6333.3	6274.7	6327.4	6356.7	6292.3	6263.0
7.5°	6438.8	6450.5	6444.6	6421.2	6468.1	6462.2	6456.3	6415.3	6427.0	6403.6	6368.5
10°	6737.6	6731.7	6761.0	6702.4	6667.2	6708.3	6720.0	6655.5	6608.7	6591.1	6479.8
12.5°	7171.1	7100.8	7059.8	7001.2	7018.8	6960.2	7065.6	6954.3	6930.9	6825.4	6714.1
15°	7522.6	7510.9	7516.8	7423.0	7317.6	7341.0	7341.0	7282.4	7247.3	7118.4	6960.2
17.5°	8243.3	7997.2	8049.9	7932.7	7844.9	7839.0	7786.3	7798.0	7704.2	7434.7	7194.5
20°	8805.7	8700.2	8618.2	8419.0	8284.3	8325.3	8301.8	8243.3	8214.0	7862.4	7522.6
22.5°	9309.5	9344.7	9209.9	9157.2	8969.7	8987.3	9034.2	8981.5	8758.8	8395.6	7891.7
25°	10018.4	9977.4	9795.8	9731.4	9555.6	9620.1	9801.7	9760.7	9620.1	8963.9	8178.8
27.5°	10856.2	10715.6	10750.8	10457.9	10288.0	10469.6	10686.3	10891.4	10493.0	9631.8	8518.6
30°	11448.0	11301.5	11289.8	11278.1	11237.1	11448.0	11699.9	11887.4	11565.2	10299.7	9081.1
32.5°	11740.9	11776.1	11875.7	11840.5	12197.9	12631.4	12895.1	13164.6	12760.3	11389.4	9825.1
35°	12520.1	12297.5	12520.1	12543.6	12912.7	13832.5	14166.4	14810.9	14711.3	12930.2	10733.2
37.5°	12977.1	12959.5	12988.8	13211.5	13568.8	14705.4	15180.0	15678.0	15490.5	13855.9	11864.0
40°	13732.9	13779.8	13773.9	13943.8	14336.3	15361.6	15555.0	15959.2	15976.8	15139.0	13527.8
42.5°	14945.7	14758.2	14635.1	14810.9	15361.6	15929.9	16316.6	16234.6	16814.6	16697.4	15666.3
45°	16035.4	16146.7	15965.1	16258.0	16457.2	16761.9	16750.1	16925.9	17664.1	18220.7	17277.4
47.5°	17054.8	17125.1	17213.0	17412.2	17845.7	17892.6	17793.0	17716.8	18736.3	19310.4	18525.3
50°	17664.1	17728.6	18138.7	18496.1	19304.6	19410.0	19468.6	19275.3	19966.6	20031.0	19703.0
52.5°	17500.1	17570.4	18144.5	19322.1	20611.1	21577.7	21402.0	21073.9	21032.9	21284.8	20792.7
55°	16047.1	15982.6	16773.6	18607.4	21021.2	23341.2	23364.7	23019.0	22357.0	22187.1	20628.6
56°	14810.9	14559.0	15566.7	17781.3	20493.9	23188.9	23452.5	23083.4	22462.4	21700.8	19615.1
57.5°	12133.5	12373.7	13375.5	15209.3	18671.8	22093.3	22245.6	22157.8	21689.1	20411.9	17259.9
60°	6690.7	7112.5	7997.2	10241.1	13293.5	16955.2	17078.2	17793.0	17880.9	15631.1	11875.7
62.5°	2841.5	2794.6	3714.4	5366.6	7569.5	10235.2	10463.7	11196.1	11330.8	9010.7	5958.3
65°	1154.2	1218.6	1681.5	2700.9	4001.5	4663.6	4985.8	5226.0	5671.3	3720.3	2197.0
67.5°	761.6	755.8	990.1	1540.8	2156.0	2079.9	2079.9	2197.0	2033.0	1517.4	949.1
70°	544.9	562.4	708.9	1066.3	1341.7	996.0	955.0	914.0	1037.0	1001.8	767.5
72.5°	357.4	380.8	474.6	638.6	697.2	544.9	544.9	656.2	855.4	808.5	626.9
75°	234.3	240.2	292.9	369.1	345.7	281.2	310.5	439.4	621.0	597.6	445.3
77.5°	158.2	164.0	199.2	240.2	193.3	158.2	169.9	222.6	304.7	304.7	234.3
80°	58.6	64.4	82.0	76.2	87.9	111.3	123.0	152.3	181.6	181.6	158.2
82.5°	0.0	5.9	17.6	41.0	64.4	87.9	99.6	117.2	134.8	152.3	146.5
85°	0.0	5.9	17.6	29.3	46.9	52.7	58.6	41.0	35.2	35.2	29.3
87.5°	0.0	0.0	5.9	5.9	5.9	5.9	5.9	5.9	11.7	5.9	5.9
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°	6145.8	6145.8	6145.8	6145.8	6145.8	6145.8	6145.8	6145.8	6145.8	6145.8	6145.8
2.5°	6145.8	6140.0	6140.0	6122.4	6157.5	6140.0	6151.7	6145.8	6069.7	6128.2	6087.2
5°	6210.3	6251.3	6186.8	6175.1	6128.2	6145.8	6145.8	6087.2	6140.0	6134.1	6122.4
7.5°	6374.3	6304.0	6233.7	6163.4	6151.7	6134.1	6069.7	6046.2	6087.2	6040.4	6110.7
10°	6444.6	6456.3	6350.9	6257.1	6169.3	6046.2	5958.3	5905.6	5841.2	5911.5	5952.5
12.5°	6766.8	6649.7	6468.1	6321.6	6022.8	5899.8	5811.9	5788.4	5899.8	5923.2	5882.2
15°	6878.2	6860.6	6626.2	6298.1	5987.6	5841.2	5858.7	5811.9	5823.6	5765.0	5776.7
17.5°	7106.7	6907.5	6632.1	6222.0	5981.8	5946.6	5841.2	5653.7	5548.2	5501.4	5542.4
20°	7358.6	7165.2	6766.8	6251.3	6034.5	5940.8	5595.1	5366.6	5149.8	5032.7	5038.5
22.5°	7581.2	7341.0	6708.3	6263.0	6081.4	5694.7	5278.7	4827.6	4558.1	4376.5	4382.3
25°	7850.7	7510.9	6731.7	6286.4	5958.3	5302.2	4704.6	4265.2	3942.9	3819.9	3860.9
27.5°	8003.0	7616.4	6860.6	6339.2	5636.1	4745.6	4101.1	3691.0	3503.5	3444.9	3439.1
30°	8460.0	7850.7	7018.8	6233.7	5097.1	4148.0	3550.4	3298.5	3116.9	3064.1	3075.8
32.5°	9139.6	8278.4	7223.8	5958.3	4546.4	3614.8	3193.0	3005.5	2835.6	2736.0	2724.3
35°	9707.9	9010.7	7440.6	5530.7	3907.8	3204.7	2941.1	2706.7	2449.0	2337.6	2308.3
37.5°	10791.8	9836.8	7393.7	4886.2	3298.5	2900.1	2671.6	2384.5	2161.9	2009.5	1992.0
40°	12233.1	10803.5	7165.2	4101.1	2847.3	2630.6	2384.5	2109.1	1833.8	1704.9	1693.2
42.5°	13984.8	11987.0	6749.3	3304.3	2396.2	2361.1	2138.4	1822.1	1576.0	1482.3	1488.1
45°	15408.5	13000.5	6327.4	2654.0	2062.3	2097.4	1904.1	1605.3	1435.4	1359.2	1359.2
47.5°	16674.0	13686.0	5870.5	2191.2	1751.8	1833.8	1663.9	1488.1	1341.7	1283.1	1271.3
50°	17892.6	14383.2	5413.5	1775.2	1494.0	1576.0	1558.4	1417.8	1300.6	1230.3	1236.2
52.5°	18654.2	14494.5	4833.5	1453.0	1306.5	1400.2	1458.8	1329.9	1201.0	1160.0	1148.3
55°	17722.7	13059.1	3749.6	1195.2	1107.3	1230.3	1341.7	1195.2	1095.6	1025.3	1019.4
56°	16468.9	11676.5	3134.4	1101.4	1048.7	1183.5	1300.6	1142.5	1031.1	990.1	960.8
57.5°	13943.8	9555.6	2314.2	978.4	972.6	1101.4	1236.2	1089.7	960.8	925.7	925.7
60°	8694.4	5378.3	1400.2	820.2	843.7	978.4	1113.2	972.6	855.4	855.4	873.0
62.5°	3960.5	2238.0	849.5	697.2	726.5	843.7	990.1	878.8	814.4	878.8	890.5
65°	1347.5	966.7	615.2	556.6	574.2	697.2	849.5	890.5	884.7	925.7	949.1
67.5°	755.8	621.0	515.6	462.8	451.1	515.6	697.2	890.5	855.4	837.8	849.5
70°	638.6	527.3	457.0	410.1	392.5	416.0	539.0	673.8	603.5	585.9	574.2
72.5°	515.6	439.4	398.4	369.1	316.4	269.5	246.1	257.8	287.1	304.7	333.9
75°	363.2	333.9	333.9	298.8	228.5	169.9	134.8	111.3	76.2	52.7	58.6
77.5°	205.1	205.1	210.9	181.6	146.5	111.3	82.0	58.6	29.3	11.7	5.9
80°	140.6	152.3	164.0	146.5	123.0	99.6	70.3	41.0	17.6	0.0	0.0
82.5°	140.6	158.2	169.9	146.5	123.0	93.7	70.3	41.0	17.6	5.9	0.0
85°	29.3	35.2	41.0	46.9	70.3	70.3	52.7	35.2	17.6	5.9	0.0
87.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	0.0	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)