

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: P533387

Luminaire Tested: **GALN-SA8D-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533387
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-SA8D-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA 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: 36849 lumens
Efficiency: N/A
Efficacy: 74.7 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

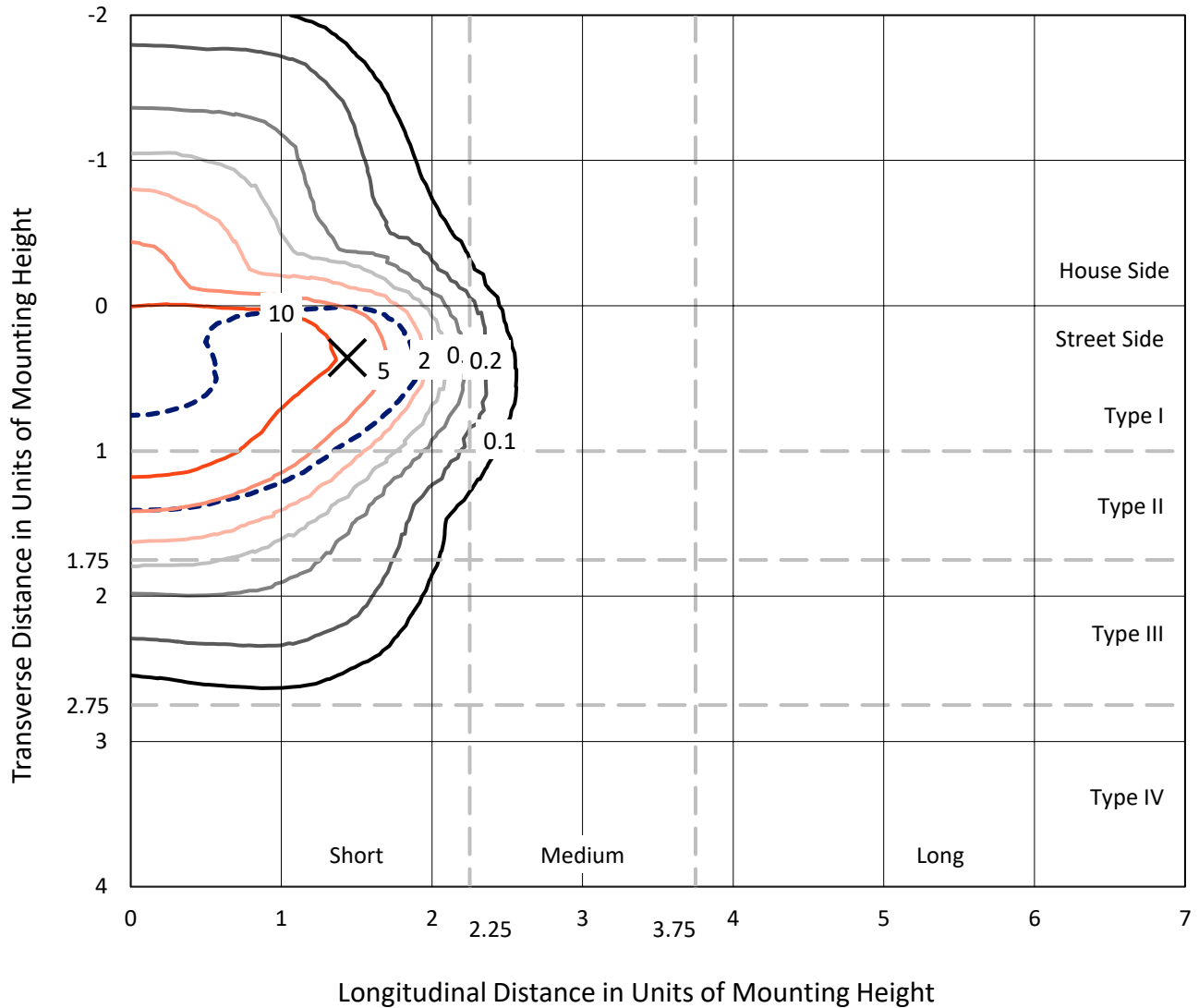
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

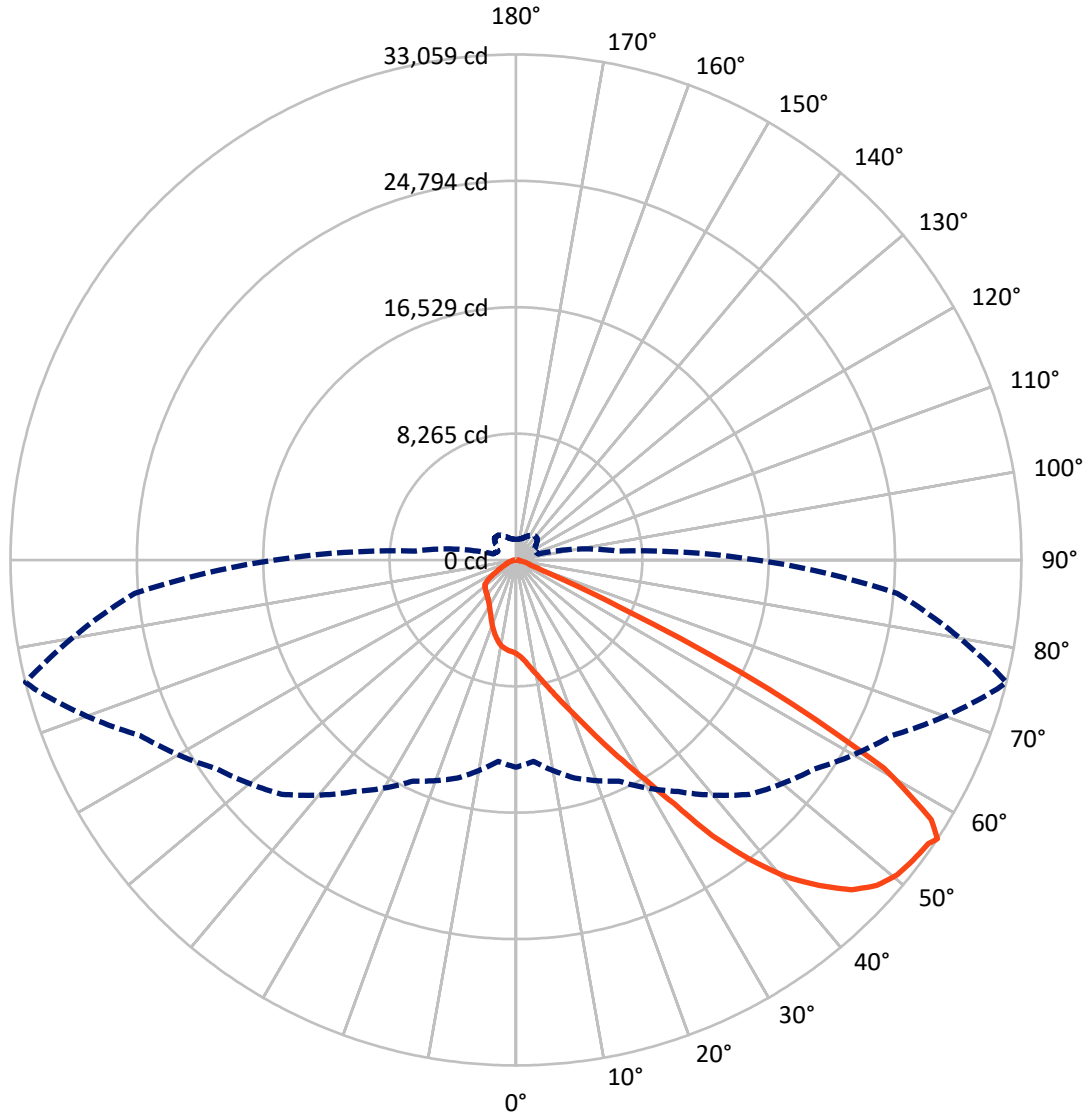
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 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	5788.8	0.0	5788.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	31060.2	0.0	31060.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	36849.0	0.0	36849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.9	1.7
10°-20°	1985.0	5.4
20°-30°	3599.3	9.8
30°-40°	6207.2	16.8
40°-50°	10083.8	27.4
50°-60°	10628.7	28.8
60°-70°	3247.5	8.8
70°-80°	416.3	1.1
80°-90°	63.3	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°	36849.0	100.0
0°-180°	36849.0	100.0

Coefficient of Utilization

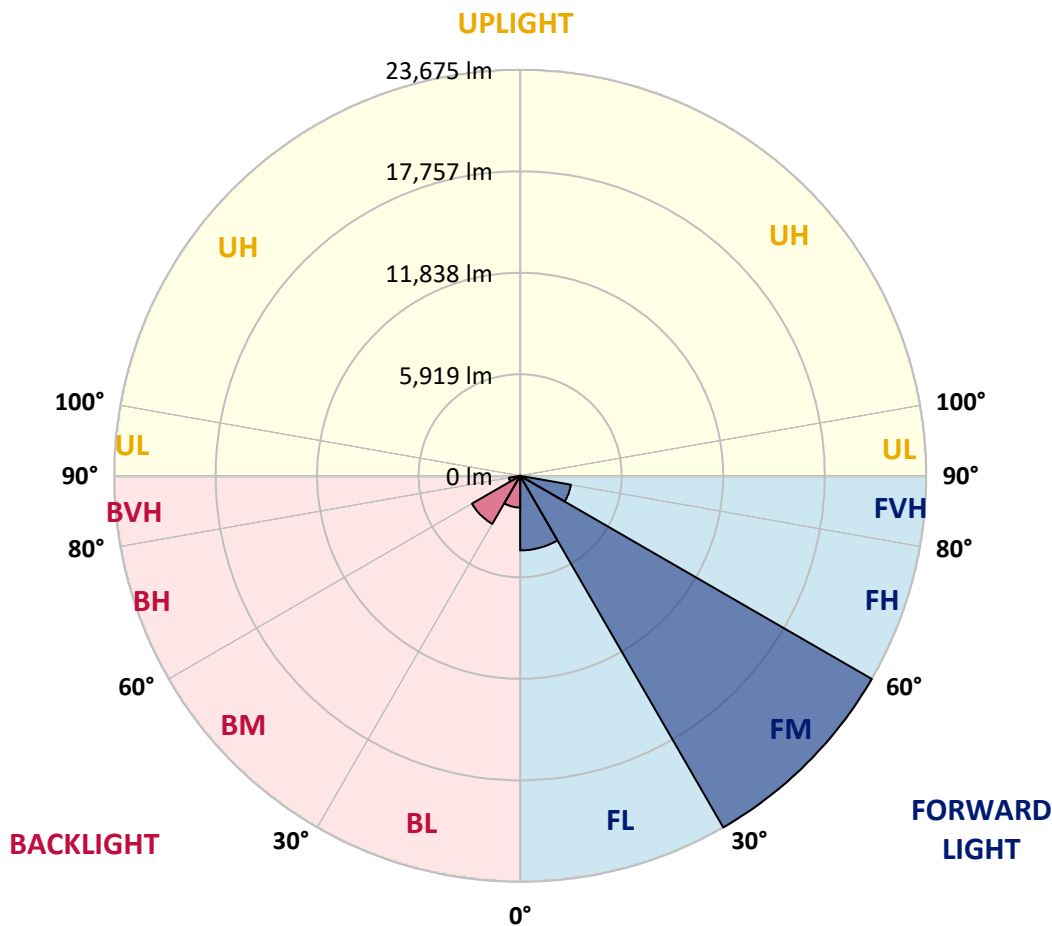


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4350.4	11.8			
FM (30°-60°)	23675.4	64.2			
FH (60°-80°)	3003.4	8.2			G2/5000
FVH (80°-90°)	31.0	0.1			G1/100
BL (0°-30°)	1851.8	5.0	B3/2500		
BM (30°-60°)	3244.3	8.8	B3/5000		
BH (60°-80°)	660.4	1.8	B2/1000		G2/1000
BVH (80°-90°)	32.3	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°	55°	65°	75°	76°	85°
0°	6133.6	6133.6	6133.6	6133.6	6133.6	6133.6	6133.6	6133.6	6133.6	6133.6	6133.6
2.5°	7064.1	6901.1	6907.9	6894.3	6873.9	6799.2	6575.1	6541.1	6391.7	6350.9	6215.1
5°	7913.2	7770.5	7852.1	7729.8	7614.3	7546.4	7179.6	7009.8	6772.1	6683.8	6493.6
7.5°	8443.0	8375.1	8347.9	8354.7	8246.0	8076.2	7913.2	7539.6	7220.4	7152.4	6751.7
10°	8701.1	8660.4	8701.1	8680.7	8728.3	8748.7	8463.4	8239.2	7770.5	7655.1	7030.2
12.5°	8762.2	8843.8	8877.7	8966.0	9081.5	9278.5	9258.1	8952.4	8327.5	8252.8	7458.1
15°	8911.7	8979.6	8945.6	9088.3	9305.6	9638.5	9815.1	9767.5	9095.1	8959.2	7953.9
17.5°	9047.5	8925.3	9040.7	9326.0	9543.4	10052.8	10480.7	10677.7	9930.5	9774.3	8409.0
20°	9230.9	9197.0	9176.6	9319.2	9706.4	10385.6	11234.7	11594.7	10867.9	10704.9	9061.1
22.5°	9787.9	9794.7	9781.1	9570.5	9849.0	10616.6	11893.6	12783.4	11988.7	11852.8	9801.5
25°	10521.5	10433.2	10365.3	10195.4	10161.5	10827.1	12559.2	14236.9	13333.6	13238.5	10603.0
27.5°	11295.8	11295.8	11092.1	10935.8	10718.5	11350.2	13170.5	15649.8	14956.9	14827.9	11302.6
30°	12138.1	12185.6	12158.5	11825.6	11689.8	11920.7	13795.4	17456.6	16818.1	16655.1	12457.3
32.5°	13381.1	13279.2	13394.7	13116.2	12715.4	12919.2	14780.3	19073.2	19236.2	19005.2	13972.0
35°	15024.9	14963.7	14889.0	14433.9	13958.5	14121.5	16172.8	21063.3	22272.4	22156.9	15500.3
37.5°	16498.8	16464.9	16403.7	16091.3	15541.1	15738.1	17755.4	23135.0	25233.9	24853.5	17660.3
40°	18047.5	18230.9	18033.9	17755.4	17252.8	17687.5	19616.6	24364.5	27726.7	27264.8	19310.9
42.5°	20146.4	20003.7	20092.0	19582.6	19310.9	19786.4	21484.5	25593.9	29662.6	29112.4	21063.3
45°	22381.1	22387.9	22150.1	21987.1	21280.7	21796.9	22632.4	26273.1	31204.5	30776.5	22387.9
47.5°	23814.3	23807.5	24065.6	24323.7	23596.9	23087.5	23413.5	26918.4	31999.2	31802.2	22870.1
50°	23590.1	23658.1	23990.9	24955.4	25335.8	24649.8	24147.1	26728.2	32359.2	32338.8	23284.5
52.5°	20520.0	20744.1	21301.1	22693.5	24609.0	25458.1	24914.7	27081.4	32535.8	32569.7	23902.6
55°	15622.6	15744.9	16804.5	18495.8	20615.0	23522.2	24609.0	27359.9	32671.6	32732.8	24649.8
56°	13550.9	13224.9	14753.2	15955.4	18489.0	21667.9	23834.7	27142.6	32590.1	33058.8	25023.3
57.5°	10229.4	10012.1	11248.3	12749.4	15187.9	18543.4	21430.1	26116.9	32039.9	32033.1	24486.7
60°	6221.9	6004.5	6955.5	7838.5	9203.8	11418.1	14481.5	20798.4	27088.2	27658.8	19827.1
62.5°	3701.9	3837.7	4775.1	5311.7	5753.2	5984.1	7492.1	12362.2	18074.7	18482.2	12301.1
65°	2465.7	2513.2	3219.6	4102.6	4299.6	3423.4	3049.8	5006.0	7838.5	7587.2	5074.0
67.5°	1521.5	1630.2	2160.0	3083.8	3416.6	2499.6	1446.8	1867.9	2160.0	2160.0	1467.2
70°	923.8	978.1	1440.0	2098.9	2343.4	1609.8	1052.8	1052.8	1039.2	1018.9	876.2
72.5°	441.5	475.5	733.6	1080.0	1100.4	849.1	815.1	889.8	869.4	862.6	726.8
75°	190.2	203.8	258.1	339.6	387.2	360.0	495.8	638.5	658.9	638.5	523.0
77.5°	61.1	67.9	95.1	122.3	129.1	156.2	210.6	264.9	305.7	285.3	258.1
80°	6.8	13.6	27.2	61.1	95.1	122.3	156.2	176.6	197.0	197.0	183.4
82.5°	6.8	6.8	27.2	54.3	88.3	115.5	149.4	169.8	197.0	203.8	190.2
85°	0.0	6.8	20.4	47.5	74.7	74.7	67.9	67.9	47.5	47.5	47.5
87.5°	0.0	0.0	6.8	6.8	6.8	13.6	13.6	13.6	13.6	13.6	13.6
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°	6133.6	6133.6	6133.6	6133.6	6133.6	6133.6	6133.6	6133.6	6133.6	6133.6	6133.6
2.5°	6187.9	6174.3	5990.9	5875.5	5814.3	5692.1	5617.3	5563.0	5522.3	5474.7	5481.5
5°	6269.4	6221.9	5916.2	5705.6	5454.3	5318.5	5203.0	5107.9	5046.8	5033.2	5006.0
7.5°	6500.4	6249.0	5787.2	5406.8	5087.5	4951.7	4849.8	4788.7	4815.8	4754.7	4802.3
10°	6677.0	6303.4	5630.9	5080.7	4761.5	4659.6	4605.3	4652.8	4720.7	4693.6	4659.6
12.5°	6894.3	6357.7	5379.6	4768.3	4469.4	4394.7	4489.8	4578.1	4714.0	4768.3	4700.4
15°	7138.9	6418.9	5060.4	4408.3	4218.1	4279.2	4442.3	4598.5	4734.3	4802.3	4843.0
17.5°	7437.7	6398.5	4747.9	4123.0	3980.4	4157.0	4354.0	4496.6	4700.4	4802.3	4775.1
20°	7716.2	6330.6	4401.5	3837.7	3844.5	4007.5	4170.6	4401.5	4510.2	4646.0	4598.5
22.5°	7981.1	6208.3	4041.5	3640.7	3640.7	3892.1	3973.6	4123.0	4218.1	4286.0	4279.2
25°	8354.7	5977.3	3742.6	3450.6	3532.1	3695.1	3763.0	3810.6	3769.8	3824.1	3830.9
27.5°	8619.6	5739.6	3498.1	3280.7	3430.2	3552.4	3532.1	3504.9	3409.8	3335.1	3382.6
30°	8904.9	5461.1	3287.5	3165.3	3246.8	3355.5	3274.0	3192.4	3043.0	2920.7	2927.5
32.5°	9312.4	5332.1	3104.1	3029.4	3138.1	3151.7	3063.4	2941.1	2791.7	2676.2	2669.4
35°	10073.2	5250.6	2947.9	2941.1	2961.5	2968.3	2880.0	2730.6	2669.4	2574.3	2608.3
37.5°	10833.9	5209.8	2839.2	2812.1	2805.3	2812.1	2710.2	2567.5	2683.0	2676.2	2689.8
40°	11805.3	5393.2	2683.0	2649.1	2655.8	2655.8	2526.8	2486.0	2689.8	2710.2	2717.0
42.5°	12790.2	5624.1	2581.1	2472.4	2499.6	2499.6	2431.7	2384.1	2526.8	2390.9	2370.6
45°	13646.0	5963.8	2472.4	2295.8	2363.8	2397.7	2377.4	2295.8	2207.5	1976.6	1976.6
47.5°	13924.5	6262.6	2343.4	2126.0	2180.4	2329.8	2268.7	2098.9	1942.6	1752.4	1738.9
50°	14413.6	6588.7	2241.5	1929.1	2044.5	2227.9	2166.8	1997.0	1820.4	1684.5	1691.3
52.5°	14916.2	6962.2	2051.3	1698.1	1840.8	2146.4	2146.4	1956.2	1684.5	1589.4	1575.8
55°	15670.2	6948.7	1711.7	1392.4	1643.8	2024.1	2058.1	1752.4	1507.9	1433.2	1433.2
56°	15778.8	6636.2	1541.9	1304.1	1555.5	1990.2	1997.0	1698.1	1440.0	1358.5	1358.5
57.5°	14963.7	5990.9	1351.7	1195.5	1446.8	1929.1	1935.8	1650.6	1385.7	1270.2	1256.6
60°	11513.2	4055.1	1127.5	1066.4	1310.9	1738.9	1772.8	1501.1	1215.8	1127.5	1120.8
62.5°	6500.4	2248.3	991.7	964.5	1127.5	1480.8	1582.6	1310.9	1032.5	984.9	998.5
65°	2968.3	1236.2	835.5	781.1	910.2	1141.1	1277.0	1080.0	849.1	794.7	794.7
67.5°	1086.8	842.3	713.2	618.1	638.5	740.4	828.7	699.6	563.8	482.3	502.6
70°	774.3	706.4	624.9	536.6	495.8	482.3	475.5	394.0	278.5	217.4	230.9
72.5°	624.9	584.1	523.0	455.1	387.2	326.0	278.5	203.8	129.1	88.3	81.5
75°	448.3	427.9	380.4	326.0	271.7	230.9	190.2	129.1	67.9	34.0	34.0
77.5°	230.9	230.9	224.2	203.8	169.8	135.8	108.7	74.7	40.8	13.6	13.6
80°	176.6	190.2	197.0	176.6	156.2	122.3	88.3	54.3	27.2	6.8	6.8
82.5°	169.8	197.0	210.6	183.4	156.2	115.5	88.3	54.3	27.2	6.8	6.8
85°	40.8	40.8	61.1	67.9	88.3	95.1	74.7	47.5	20.4	6.8	6.8
87.5°	13.6	13.6	13.6	13.6	13.6	13.6	6.8	6.8	6.8	6.8	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)