

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: P531515

Luminaire Tested: **GALN-SA6D-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531515
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-SA6D-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 27060 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

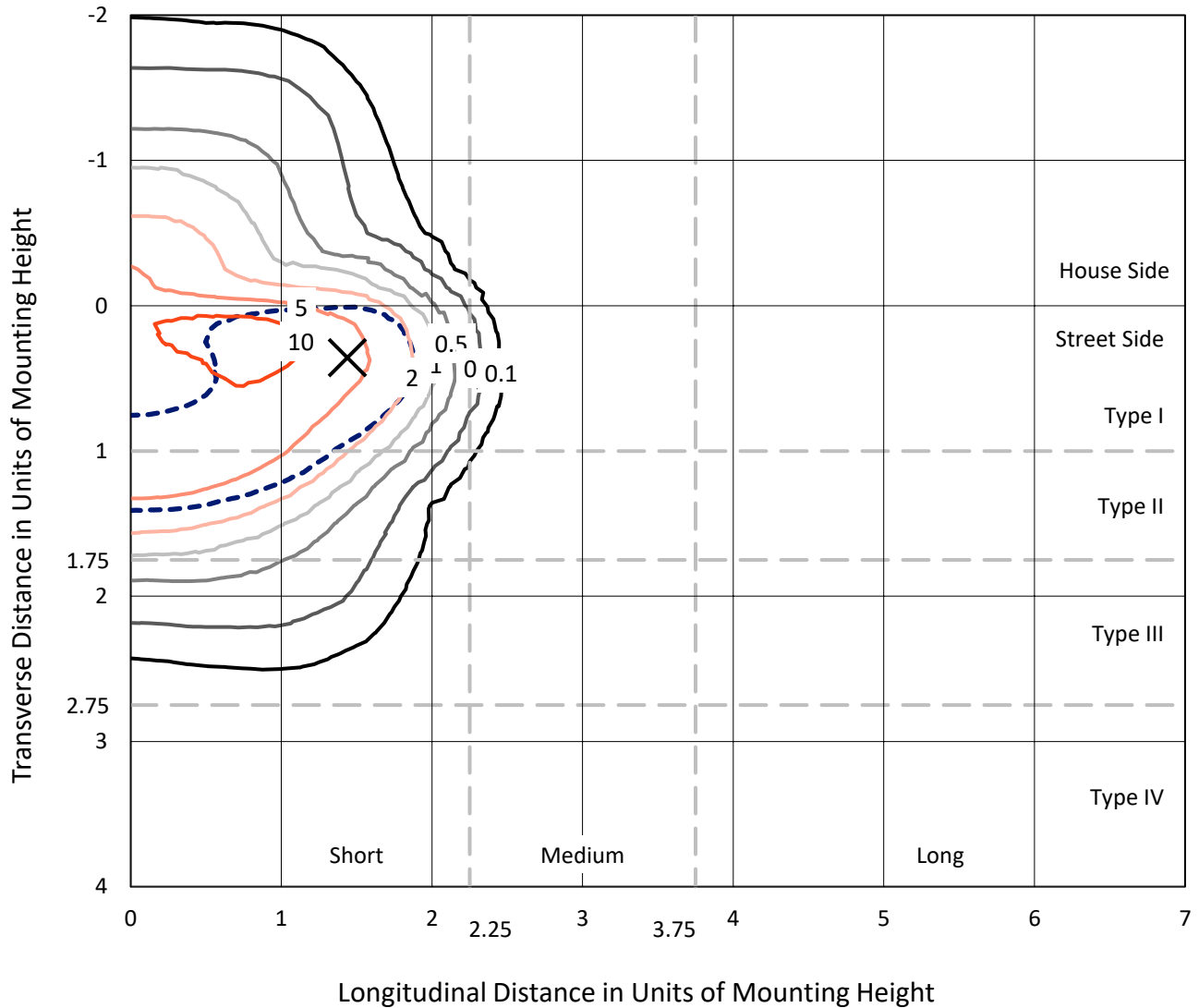
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

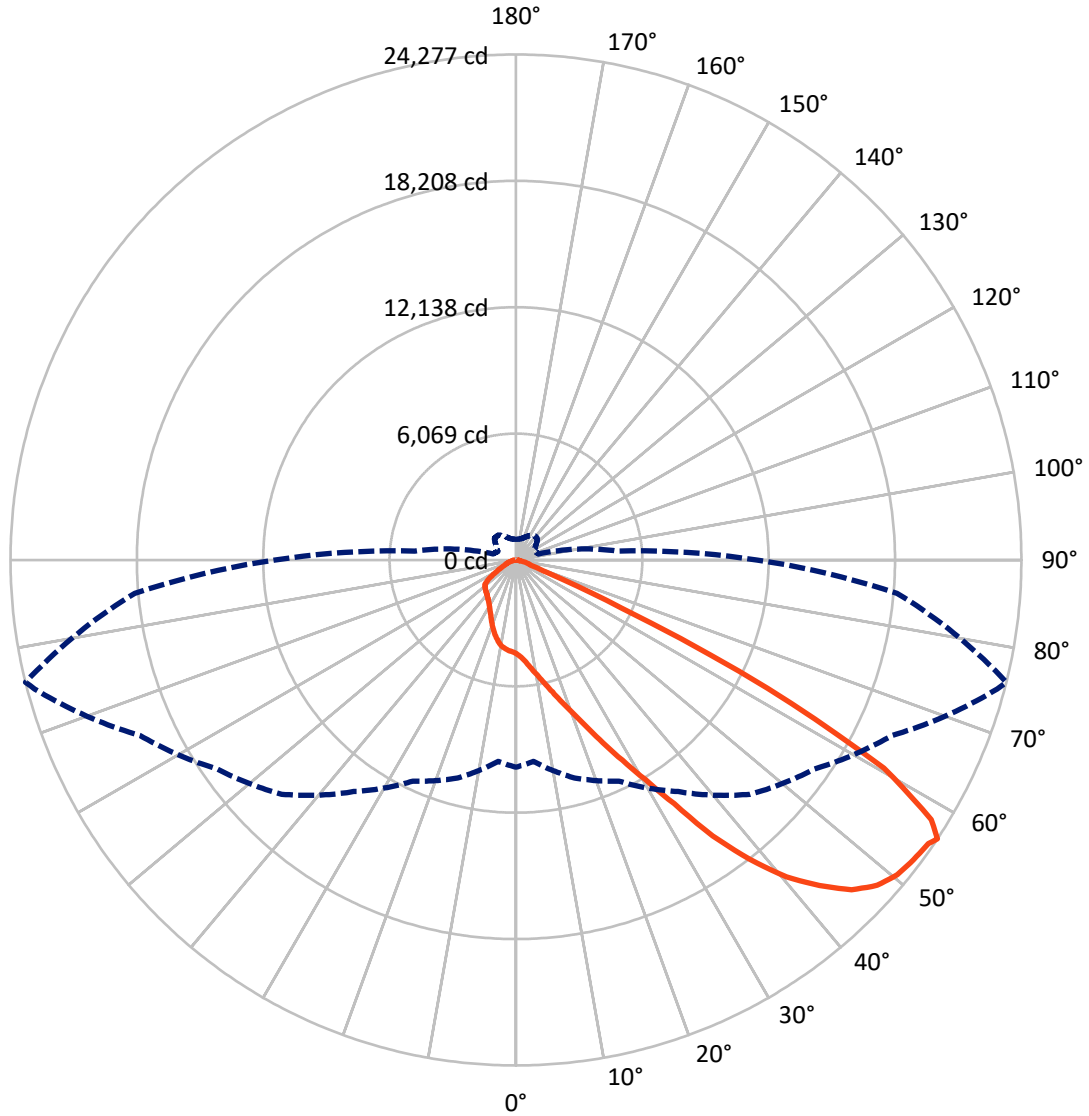
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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	4251.0	0.0	4251.0
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	22809.0	0.0	22809.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	27060.0	0.0	27060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.7	1.7
10°-20°	1457.7	5.4
20°-30°	2643.2	9.8
30°-40°	4558.3	16.8
40°-50°	7405.0	27.4
50°-60°	7805.2	28.8
60°-70°	2384.8	8.8
70°-80°	305.7	1.1
80°-90°	46.5	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°	27060.0	100.0
0°-180°	27060.0	100.0

Coefficient of Utilization

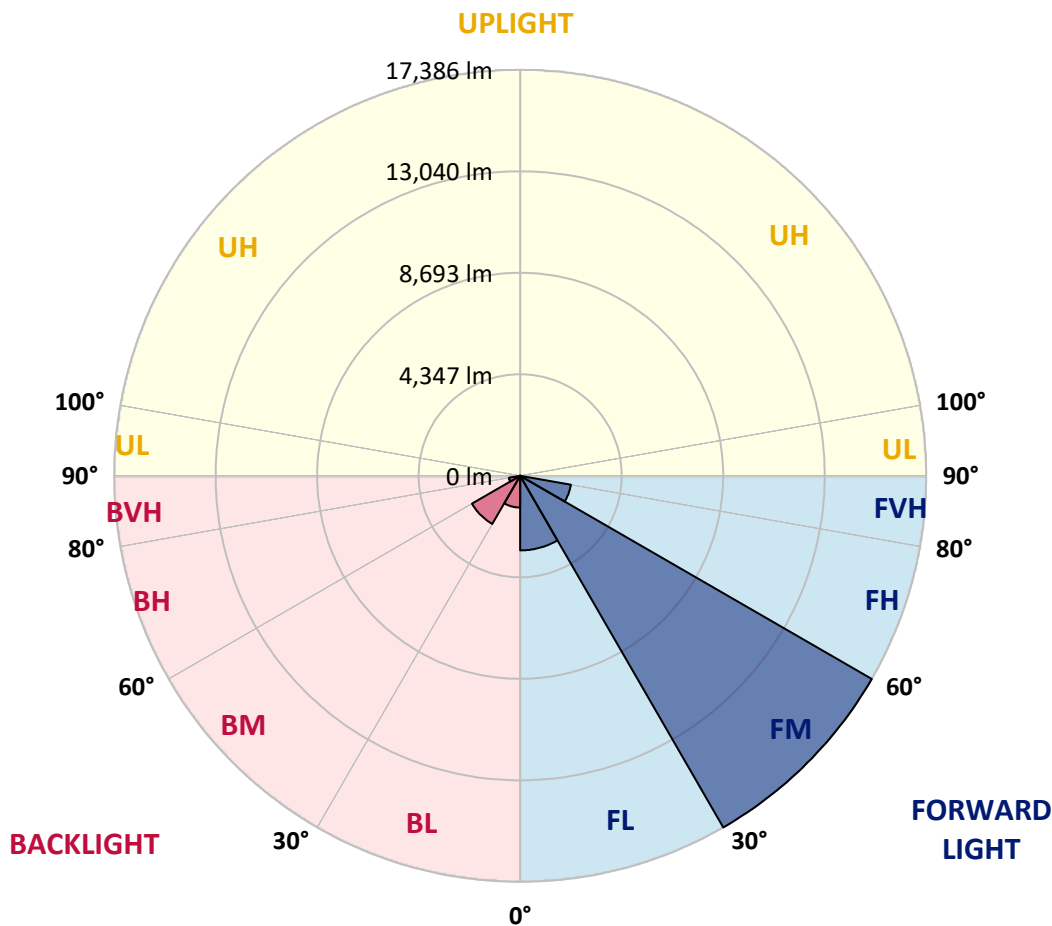


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3194.7	11.8			
FM (30°-60°)	17386.0	64.2			
FH (60°-80°)	2205.6	8.2			G2/5000
FVH (80°-90°)	22.8	0.1			G1/100
BL (0°-30°)	1359.9	5.0	B3/2500		
BM (30°-60°)	2382.4	8.8	B2/2500		
BH (60°-80°)	485.0	1.8	B1/500		G1/500
BVH (80°-90°)	23.7	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°	4504.2	4504.2	4504.2	4504.2	4504.2	4504.2	4504.2	4504.2	4504.2	4504.2	4504.2
2.5°	5187.5	5067.8	5072.8	5062.8	5047.9	4993.0	4828.4	4803.5	4693.7	4663.8	4564.0
5°	5811.0	5706.3	5766.1	5676.4	5591.6	5541.7	5272.3	5147.6	4973.1	4908.2	4768.5
7.5°	6200.1	6150.2	6130.3	6135.3	6055.5	5930.8	5811.0	5536.7	5302.3	5252.4	4958.1
10°	6389.6	6359.7	6389.6	6374.7	6409.6	6424.6	6215.1	6050.5	5706.3	5621.5	5162.6
12.5°	6434.5	6494.4	6519.3	6584.2	6669.0	6813.6	6798.7	6574.2	6115.3	6060.4	5476.8
15°	6544.3	6594.2	6569.2	6674.0	6833.6	7078.0	7207.7	7172.8	6679.0	6579.2	5841.0
17.5°	6644.0	6554.3	6639.0	6848.5	7008.2	7382.3	7696.5	7841.2	7292.5	7177.8	6175.2
20°	6778.7	6753.8	6738.8	6843.6	7127.9	7626.7	8250.2	8514.5	7980.8	7861.1	6654.0
22.5°	7187.7	7192.7	7182.7	7028.1	7232.6	7796.3	8734.0	9387.4	8803.8	8704.1	7197.7
25°	7726.4	7661.6	7611.7	7487.0	7462.1	7950.9	9222.8	10454.9	9791.5	9721.6	7786.3
27.5°	8295.1	8295.1	8145.4	8030.7	7871.1	8335.0	9671.8	11492.4	10983.6	10888.8	8300.1
30°	8913.6	8948.5	8928.5	8684.1	8584.4	8754.0	10130.7	12819.2	12350.3	12230.6	9148.0
32.5°	9826.4	9751.6	9836.4	9631.9	9337.6	9487.2	10853.9	14006.3	14126.1	13956.5	10260.3
35°	11033.5	10988.6	10933.7	10599.5	10250.4	10370.1	11876.5	15467.8	16355.7	16270.9	11382.7
37.5°	12115.9	12090.9	12046.1	11816.6	11412.6	11557.2	13038.7	16989.2	18530.5	18251.1	12968.8
40°	13253.2	13387.8	13243.2	13038.7	12669.6	12988.8	14405.4	17892.0	20361.1	20021.9	14180.9
42.5°	14794.5	14689.7	14754.5	14380.4	14180.9	14530.1	15777.1	18794.8	21782.7	21378.6	15467.8
45°	16435.5	16440.5	16265.9	16146.2	15627.5	16006.5	16620.1	19293.6	22914.9	22600.7	16440.5
47.5°	17488.0	17483.0	17672.5	17862.1	17328.4	16954.3	17193.7	19767.5	23498.5	23353.9	16794.6
50°	17323.4	17373.3	17617.7	18326.0	18605.3	18101.5	17732.4	19627.8	23762.9	23747.9	17098.9
52.5°	15068.8	15233.4	15642.4	16665.0	18071.6	18695.1	18296.0	19887.2	23892.6	23917.5	17552.8
55°	11472.4	11562.2	12340.3	13582.4	15138.6	17273.5	18071.6	20091.7	23992.4	24037.2	18101.5
56°	9951.1	9711.7	10834.0	11716.8	13577.4	15911.8	17502.9	19932.1	23932.5	24276.7	18375.8
57.5°	7512.0	7352.3	8260.2	9362.5	11153.2	13617.3	15737.2	19178.9	23528.5	23523.5	17981.8
60°	4569.0	4409.4	5107.7	5756.2	6758.8	8384.9	10634.4	15273.3	19892.2	20311.2	14560.0
62.5°	2718.5	2818.2	3506.6	3900.6	4224.8	4394.4	5501.8	9078.2	13273.1	13572.4	9033.3
65°	1810.6	1845.6	2364.3	3012.8	3157.4	2514.0	2239.6	3676.2	5756.2	5571.6	3726.0
67.5°	1117.3	1197.1	1586.2	2264.6	2509.0	1835.6	1062.4	1371.7	1586.2	1586.2	1077.4
70°	678.4	718.3	1057.5	1541.3	1720.9	1182.2	773.1	773.1	763.2	748.2	643.5
72.5°	324.2	349.2	538.7	793.1	808.1	623.5	598.6	653.4	638.5	633.5	533.7
75°	139.7	149.6	189.5	249.4	284.3	264.4	364.1	468.9	483.8	468.9	384.1
77.5°	44.9	49.9	69.8	89.8	94.8	114.7	154.6	194.5	224.5	209.5	189.5
80°	5.0	10.0	20.0	44.9	69.8	89.8	114.7	129.7	144.7	144.7	134.7
82.5°	5.0	5.0	20.0	39.9	64.8	84.8	109.7	124.7	144.7	149.6	139.7
85°	0.0	5.0	15.0	34.9	54.9	54.9	49.9	49.9	34.9	34.9	34.9
87.5°	0.0	0.0	5.0	5.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0
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°	4504.2	4504.2	4504.2	4504.2	4504.2	4504.2	4504.2	4504.2	4504.2	4504.2	4504.2
2.5°	4544.1	4534.1	4399.4	4314.6	4269.7	4180.0	4125.1	4085.2	4055.3	4020.3	4025.3
5°	4603.9	4569.0	4344.6	4189.9	4005.4	3905.6	3820.8	3751.0	3706.1	3696.1	3676.2
7.5°	4773.5	4589.0	4249.8	3970.5	3736.0	3636.3	3561.4	3516.6	3536.5	3491.6	3526.5
10°	4903.2	4628.9	4135.1	3731.0	3496.6	3421.8	3381.9	3416.8	3466.7	3446.7	3421.8
12.5°	5062.8	4668.8	3950.5	3501.6	3282.1	3227.2	3297.1	3361.9	3461.7	3501.6	3451.7
15°	5242.4	4713.7	3716.1	3237.2	3097.6	3142.4	3262.2	3376.9	3476.6	3526.5	3556.5
17.5°	5461.9	4698.7	3486.6	3027.7	2923.0	3052.7	3197.3	3302.1	3451.7	3526.5	3506.6
20°	5666.4	4648.8	3232.2	2818.2	2823.2	2942.9	3062.6	3232.2	3312.0	3411.8	3376.9
22.5°	5860.9	4559.0	2967.9	2673.6	2673.6	2858.1	2918.0	3027.7	3097.6	3147.4	3142.4
25°	6135.3	4389.5	2748.4	2533.9	2593.8	2713.5	2763.4	2798.3	2768.3	2808.3	2813.2
27.5°	6329.8	4214.9	2568.8	2409.2	2518.9	2608.7	2593.8	2573.8	2504.0	2449.1	2484.0
30°	6539.3	4010.4	2414.2	2324.4	2384.3	2464.1	2404.2	2344.4	2234.6	2144.8	2149.8
32.5°	6838.6	3915.6	2279.5	2224.7	2304.5	2314.4	2249.6	2159.8	2050.1	1965.3	1960.3
35°	7397.2	3855.7	2164.8	2159.8	2174.8	2179.8	2114.9	2005.2	1960.3	1890.5	1915.4
37.5°	7955.9	3825.8	2085.0	2065.0	2060.1	2065.0	1990.2	1885.5	1970.3	1965.3	1975.3
40°	8669.2	3960.5	1970.3	1945.3	1950.3	1950.3	1855.5	1825.6	1975.3	1990.2	1995.2
42.5°	9392.4	4130.1	1895.4	1815.6	1835.6	1835.6	1785.7	1750.8	1855.5	1755.8	1740.8
45°	10020.9	4379.5	1815.6	1685.9	1735.8	1760.8	1745.8	1685.9	1621.1	1451.5	1451.5
47.5°	10225.4	4598.9	1720.9	1561.2	1601.2	1710.9	1666.0	1541.3	1426.6	1286.9	1276.9
50°	10584.6	4838.4	1646.0	1416.6	1501.4	1636.1	1591.2	1466.5	1336.8	1237.0	1242.0
52.5°	10953.7	5112.7	1506.4	1247.0	1351.8	1576.2	1576.2	1436.5	1237.0	1167.2	1157.2
55°	11507.4	5102.7	1257.0	1022.5	1207.1	1486.4	1511.4	1286.9	1107.3	1052.5	1052.5
56°	11587.2	4873.3	1132.3	957.7	1142.3	1461.5	1466.5	1247.0	1057.5	997.6	997.6
57.5°	10988.6	4399.4	992.6	877.9	1062.4	1416.6	1421.6	1212.1	1017.6	932.8	922.8
60°	8454.7	2977.8	828.0	783.1	962.7	1276.9	1301.9	1102.4	892.9	828.0	823.0
62.5°	4773.5	1651.0	728.3	708.3	828.0	1087.4	1162.2	962.7	758.2	723.3	733.2
65°	2179.8	907.8	613.5	573.6	668.4	838.0	937.7	793.1	623.5	583.6	583.6
67.5°	798.1	618.5	523.7	453.9	468.9	543.7	608.5	513.8	414.0	354.1	369.1
70°	568.6	518.8	458.9	394.1	364.1	354.1	349.2	289.3	204.5	159.6	169.6
72.5°	458.9	429.0	384.1	334.2	284.3	239.4	204.5	149.6	94.8	64.8	59.9
75°	329.2	314.2	279.3	239.4	199.5	169.6	139.7	94.8	49.9	24.9	24.9
77.5°	169.6	169.6	164.6	149.6	124.7	99.8	79.8	54.9	29.9	10.0	10.0
80°	129.7	139.7	144.7	129.7	114.7	89.8	64.8	39.9	20.0	5.0	5.0
82.5°	124.7	144.7	154.6	134.7	114.7	84.8	64.8	39.9	20.0	5.0	5.0
85°	29.9	29.9	44.9	49.9	64.8	69.8	54.9	34.9	15.0	5.0	5.0
87.5°	10.0	10.0	10.0	10.0	10.0	10.0	5.0	5.0	5.0	5.0	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)