

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: P530111

Luminaire Tested: **GALN-SA5B-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530111
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-SA5B-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA 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: 16809 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

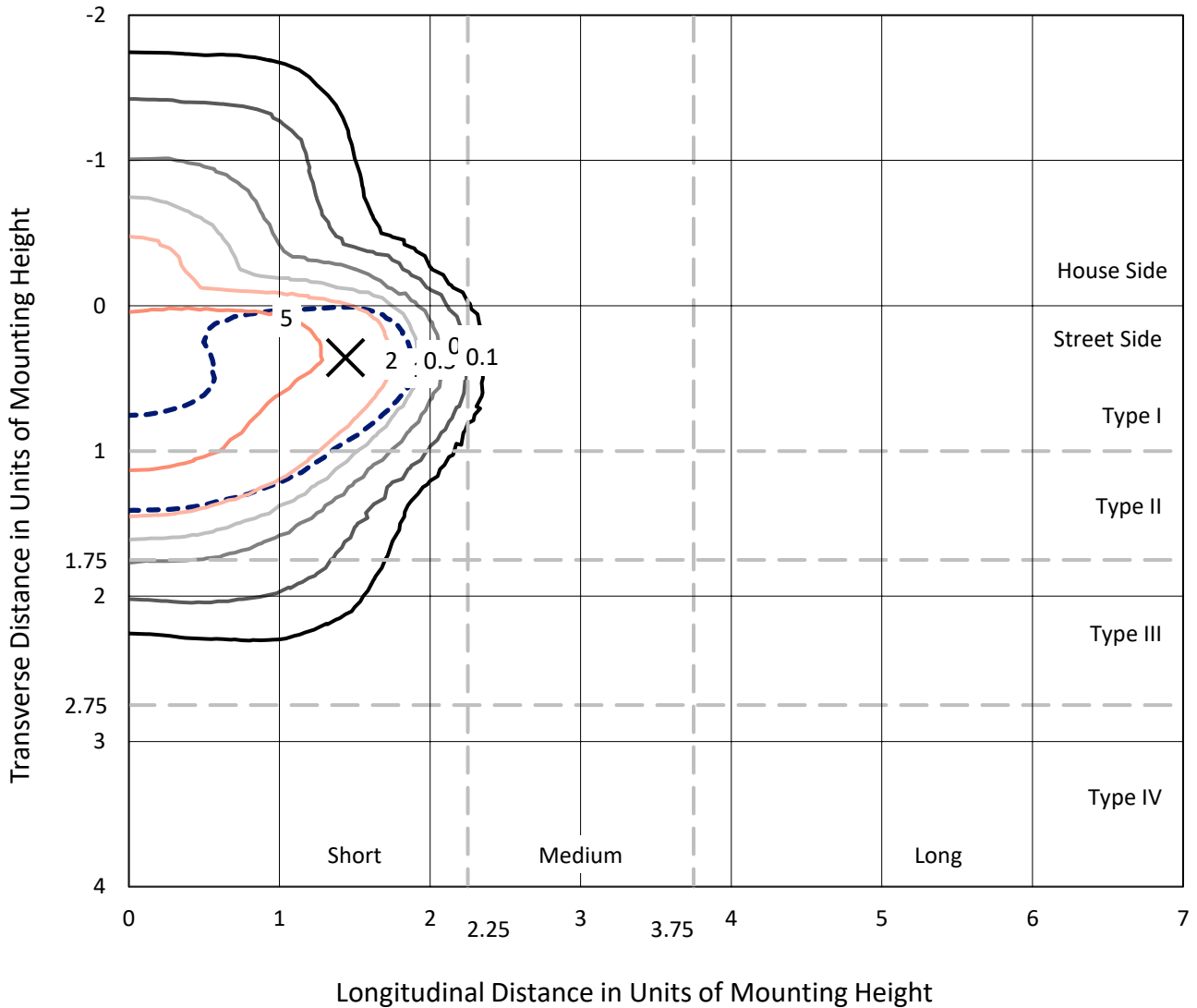
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

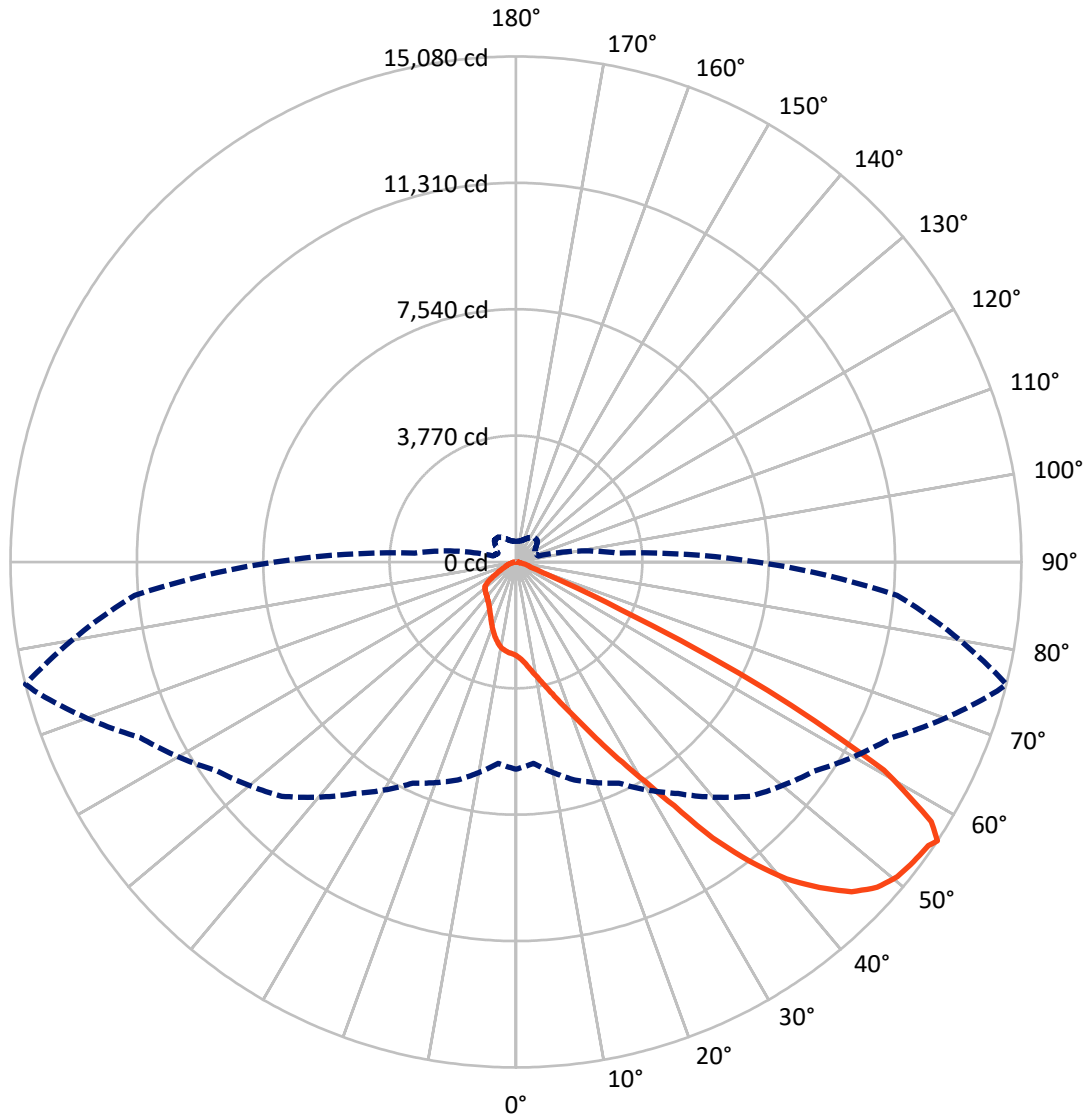
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	2640.6	0.0	2640.6
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	14168.4	0.0	14168.4
	% Fixture	84.3	0.0	84.3
Total	Lumens	16809.0	0.0	16809.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.8	1.7
10°-20°	905.5	5.4
20°-30°	1641.9	9.8
30°-40°	2831.5	16.8
40°-50°	4599.8	27.4
50°-60°	4848.4	28.8
60°-70°	1481.4	8.8
70°-80°	189.9	1.1
80°-90°	28.9	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°	16809.0	100.0
0°-180°	16809.0	100.0

Coefficient of Utilization

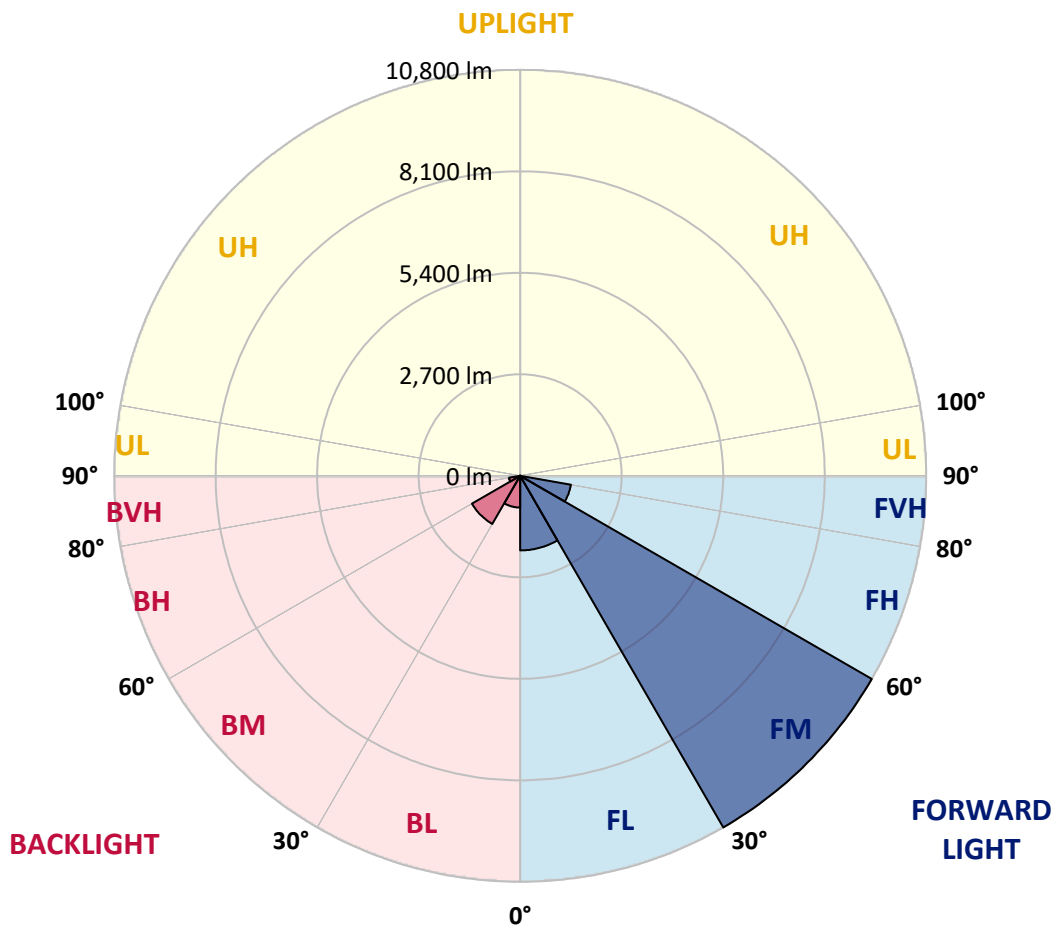


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1984.5	11.8			
FM (30°-60°)	10799.8	64.2			
FH (60°-80°)	1370.0	8.2			G1/1800
FVH (80°-90°)	14.1	0.1			G1/100
BL (0°-30°)	844.7	5.0	B2/1000		
BM (30°-60°)	1479.9	8.8	B2/2500		
BH (60°-80°)	301.3	1.8	B1/500		G1/500
BVH (80°-90°)	14.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2797.9	2797.9	2797.9	2797.9	2797.9	2797.9	2797.9	2797.9	2797.9	2797.9	2797.9
2.5°	3222.4	3148.0	3151.1	3144.9	3135.6	3101.5	2999.3	2983.8	2915.6	2897.0	2835.1
5°	3609.7	3544.6	3581.8	3526.0	3473.3	3442.4	3275.0	3197.6	3089.1	3048.9	2962.1
7.5°	3851.3	3820.4	3808.0	3811.1	3761.5	3684.0	3609.7	3439.3	3293.6	3262.6	3079.8
10°	3969.1	3950.5	3969.1	3959.8	3981.5	3990.8	3860.6	3758.4	3544.6	3491.9	3206.9
12.5°	3997.0	4034.2	4049.6	4089.9	4142.6	4232.5	4223.2	4083.7	3798.7	3764.6	3402.1
15°	4065.1	4096.1	4080.6	4145.7	4244.9	4396.7	4477.2	4455.5	4148.8	4086.8	3628.3
17.5°	4127.1	4071.3	4124.0	4254.1	4353.3	4585.7	4780.9	4870.7	4529.9	4458.6	3835.9
20°	4210.8	4195.3	4186.0	4251.0	4427.7	4737.5	5124.8	5289.0	4957.5	4883.1	4133.3
22.5°	4464.8	4467.9	4461.7	4365.7	4492.7	4842.8	5425.4	5831.2	5468.7	5406.8	4471.0
25°	4799.5	4759.2	4728.2	4650.7	4635.3	4938.9	5729.0	6494.3	6082.2	6038.8	4836.7
27.5°	5152.7	5152.7	5059.7	4988.5	4889.3	5177.5	6007.9	7138.8	6822.7	6763.9	5155.8
30°	5536.9	5558.6	5546.2	5394.4	5332.4	5437.7	6292.9	7963.0	7671.7	7597.4	5682.5
32.5°	6103.9	6057.4	6110.1	5983.1	5800.3	5893.2	6742.2	8700.4	8774.8	8669.4	6373.5
35°	6853.7	6825.8	6791.8	6584.2	6367.3	6441.6	7377.4	9608.2	10159.8	10107.1	7070.6
37.5°	7526.1	7510.6	7482.7	7340.2	7089.2	7179.1	8099.3	10553.3	11510.7	11337.2	8055.9
40°	8232.5	8316.2	8226.3	8099.3	7870.0	8068.3	8948.3	11114.1	12647.8	12437.1	8808.8
42.5°	9189.9	9124.9	9165.2	8932.8	8808.8	9025.7	9800.3	11674.9	13530.8	13279.9	9608.2
45°	10209.3	10212.4	10104.0	10029.6	9707.4	9942.9	10324.0	11984.7	14234.2	14039.0	10212.4
47.5°	10863.1	10860.0	10977.7	11095.5	10763.9	10531.6	10680.3	12279.1	14596.7	14506.9	10432.4
50°	10760.9	10791.8	10943.7	11383.6	11557.1	11244.2	11014.9	12192.3	14760.9	14751.6	10621.4
52.5°	9360.4	9462.6	9716.7	10351.9	11225.6	11612.9	11365.0	12353.4	14841.5	14857.0	10903.4
55°	7126.4	7182.2	7665.5	8437.0	9403.7	10729.9	11225.6	12480.5	14903.5	14931.3	11244.2
56°	6181.4	6032.6	6729.8	7278.2	8433.9	9884.0	10872.4	12381.3	14866.3	15080.1	11414.6
57.5°	4666.2	4567.1	5131.0	5815.8	6928.1	8458.7	9775.6	11913.5	14615.3	14612.2	11169.8
60°	2838.2	2739.0	3172.8	3575.6	4198.4	5208.5	6605.9	9487.4	12356.5	12616.8	9044.3
62.5°	1688.6	1750.6	2178.2	2423.0	2624.4	2729.7	3417.6	5639.1	8244.9	8430.8	5611.3
65°	1124.7	1146.4	1468.7	1871.5	1961.3	1561.6	1391.2	2283.5	3575.6	3460.9	2314.5
67.5°	694.0	743.6	985.3	1406.7	1558.5	1140.2	660.0	852.1	985.3	985.3	669.3
70°	421.4	446.2	656.9	957.4	1069.0	734.3	480.3	480.3	474.1	464.8	399.7
72.5°	201.4	216.9	334.6	492.7	501.9	387.3	371.8	405.9	396.6	393.5	331.5
75°	86.8	93.0	117.7	154.9	176.6	164.2	226.2	291.3	300.5	291.3	238.6
77.5°	27.9	31.0	43.4	55.8	58.9	71.3	96.1	120.8	139.4	130.1	117.7
80°	3.1	6.2	12.4	27.9	43.4	55.8	71.3	80.6	89.9	89.9	83.7
82.5°	3.1	3.1	12.4	24.8	40.3	52.7	68.2	77.5	89.9	93.0	86.8
85°	0.0	3.1	9.3	21.7	34.1	34.1	31.0	31.0	21.7	21.7	21.7
87.5°	0.0	0.0	3.1	3.1	3.1	6.2	6.2	6.2	6.2	6.2	6.2
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°	2797.9	2797.9	2797.9	2797.9	2797.9	2797.9	2797.9	2797.9	2797.9	2797.9	2797.9
2.5°	2822.7	2816.5	2732.8	2680.1	2652.3	2596.5	2562.4	2537.6	2519.0	2497.3	2500.4
5°	2859.9	2838.2	2698.7	2602.7	2488.0	2426.1	2373.4	2330.0	2302.1	2295.9	2283.5
7.5°	2965.2	2850.6	2639.9	2466.4	2320.7	2258.8	2212.3	2184.4	2196.8	2168.9	2190.6
10°	3045.8	2875.3	2568.6	2317.6	2172.0	2125.5	2100.7	2122.4	2153.4	2141.0	2125.5
12.5°	3144.9	2900.1	2454.0	2175.1	2038.8	2004.7	2048.1	2088.3	2150.3	2175.1	2144.1
15°	3256.5	2928.0	2308.3	2010.9	1924.1	1952.0	2026.4	2097.6	2159.6	2190.6	2209.2
17.5°	3392.8	2918.7	2165.8	1880.7	1815.7	1896.2	1986.1	2051.2	2144.1	2190.6	2178.2
20°	3519.8	2887.7	2007.8	1750.6	1753.7	1828.1	1902.4	2007.8	2057.4	2119.3	2097.6
22.5°	3640.7	2832.0	1843.6	1660.8	1660.8	1775.4	1812.6	1880.7	1924.1	1955.1	1952.0
25°	3811.1	2726.6	1707.2	1574.0	1611.2	1685.5	1716.5	1738.2	1719.6	1744.4	1747.5
27.5°	3931.9	2618.2	1595.7	1496.5	1564.7	1620.5	1611.2	1598.8	1555.4	1521.3	1543.0
30°	4062.0	2491.1	1499.6	1443.9	1481.1	1530.6	1493.4	1456.3	1388.1	1332.3	1335.4
32.5°	4247.9	2432.3	1416.0	1381.9	1431.5	1437.7	1397.4	1341.6	1273.5	1220.8	1217.7
35°	4595.0	2395.1	1344.7	1341.6	1350.9	1354.0	1313.7	1245.6	1217.7	1174.3	1189.8
37.5°	4942.0	2376.5	1295.1	1282.8	1279.7	1282.8	1236.3	1171.2	1223.9	1220.8	1227.0
40°	5385.1	2460.2	1223.9	1208.4	1211.5	1211.5	1152.6	1134.0	1227.0	1236.3	1239.4
42.5°	5834.3	2565.5	1177.4	1127.8	1140.2	1140.2	1109.2	1087.5	1152.6	1090.6	1081.4
45°	6224.7	2720.4	1127.8	1047.3	1078.3	1093.7	1084.5	1047.3	1007.0	901.6	901.6
47.5°	6351.8	2856.8	1069.0	969.8	994.6	1062.8	1034.9	957.4	886.2	799.4	793.2
50°	6574.9	3005.5	1022.5	880.0	932.6	1016.3	988.4	910.9	830.4	768.4	771.5
52.5°	6804.2	3175.9	935.7	774.6	839.7	979.1	979.1	892.3	768.4	725.0	718.8
55°	7148.1	3169.7	780.8	635.2	749.8	923.3	938.8	799.4	687.9	653.8	653.8
56°	7197.7	3027.2	703.3	594.9	709.5	907.8	910.9	774.6	656.9	619.7	619.7
57.5°	6825.8	2732.8	616.6	545.3	660.0	880.0	883.1	752.9	632.1	579.4	573.2
60°	5251.8	1849.8	514.3	486.5	598.0	793.2	808.7	684.8	554.6	514.3	511.2
62.5°	2965.2	1025.6	452.4	440.0	514.3	675.5	721.9	598.0	471.0	449.3	455.5
65°	1354.0	563.9	381.1	356.3	415.2	520.5	582.5	492.7	387.3	362.5	362.5
67.5°	495.7	384.2	325.3	282.0	291.3	337.7	378.0	319.1	257.2	220.0	229.3
70°	353.2	322.2	285.1	244.8	226.2	220.0	216.9	179.7	127.0	99.1	105.3
72.5°	285.1	266.5	238.6	207.6	176.6	148.7	127.0	93.0	58.9	40.3	37.2
75°	204.5	195.2	173.5	148.7	123.9	105.3	86.8	58.9	31.0	15.5	15.5
77.5°	105.3	105.3	102.2	93.0	77.5	62.0	49.6	34.1	18.6	6.2	6.2
80°	80.6	86.8	89.9	80.6	71.3	55.8	40.3	24.8	12.4	3.1	3.1
82.5°	77.5	89.9	96.1	83.7	71.3	52.7	40.3	24.8	12.4	3.1	3.1
85°	18.6	18.6	27.9	31.0	40.3	43.4	34.1	21.7	9.3	3.1	3.1
87.5°	6.2	6.2	6.2	6.2	6.2	6.2	3.1	3.1	3.1	3.1	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)