

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: P531281

Luminaire Tested: **GALN-SA6C-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531281
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-SA6C-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA 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: 24592 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

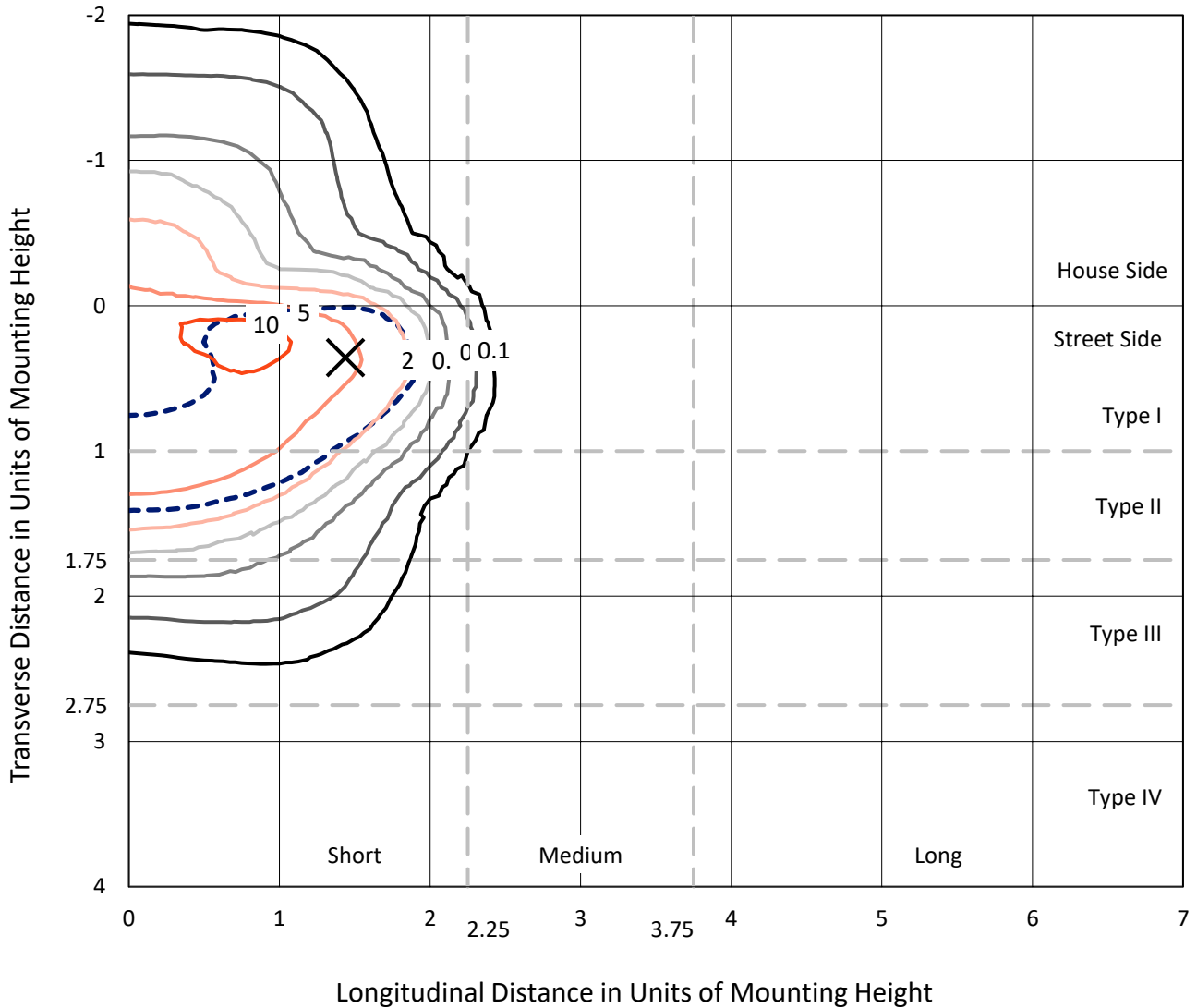
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

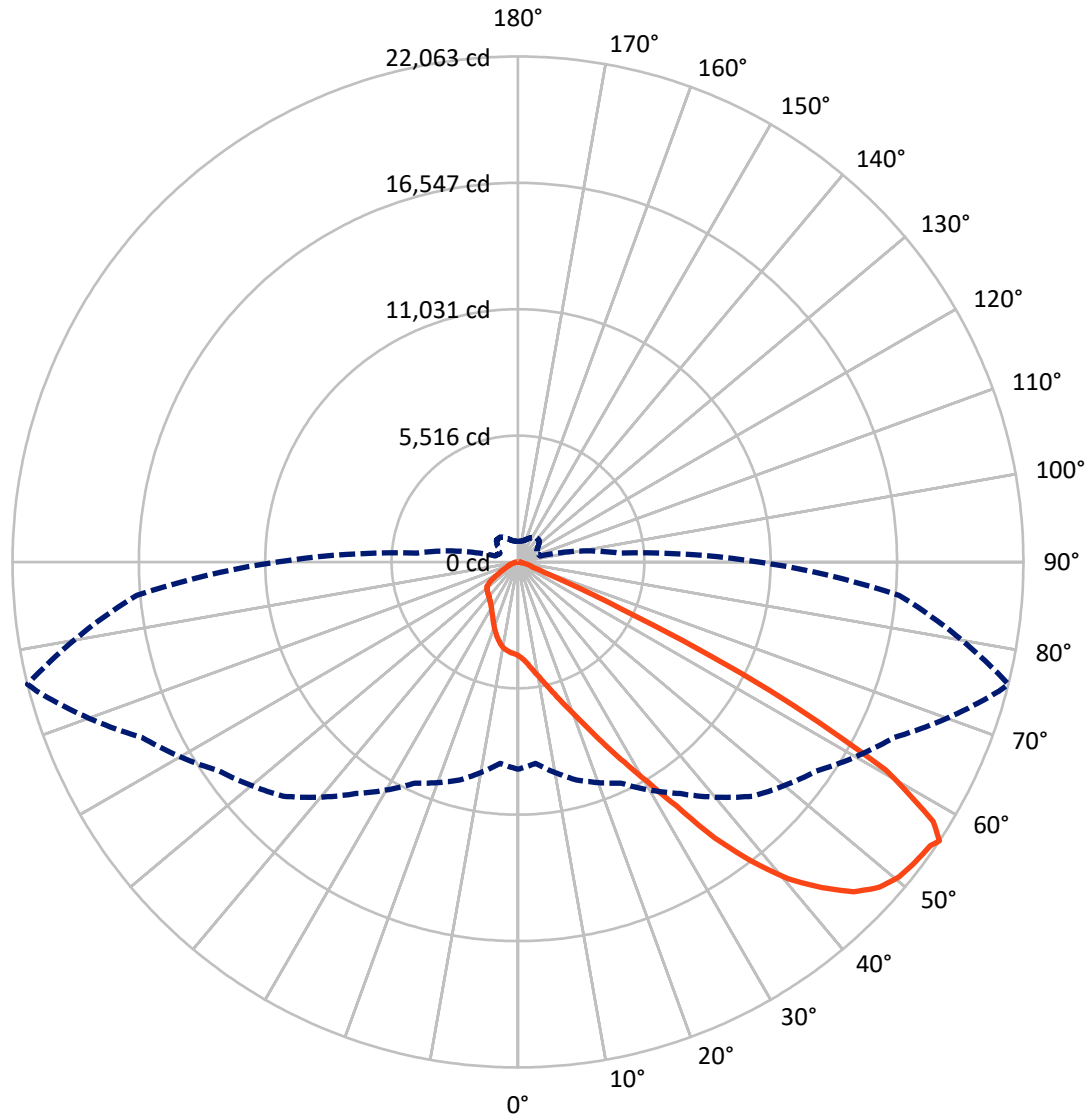
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	3863.3	0.0	3863.3
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	20728.7	0.0	20728.7
	% Fixture	84.3	0.0	84.3
Total	Lumens	24592.0	0.0	24592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.4	1.7
10°-20°	1324.7	5.4
20°-30°	2402.1	9.8
30°-40°	4142.5	16.8
40°-50°	6729.7	27.4
50°-60°	7093.3	28.8
60°-70°	2167.3	8.8
70°-80°	277.8	1.1
80°-90°	42.2	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°	24592.0	100.0
0°-180°	24592.0	100.0

Coefficient of Utilization

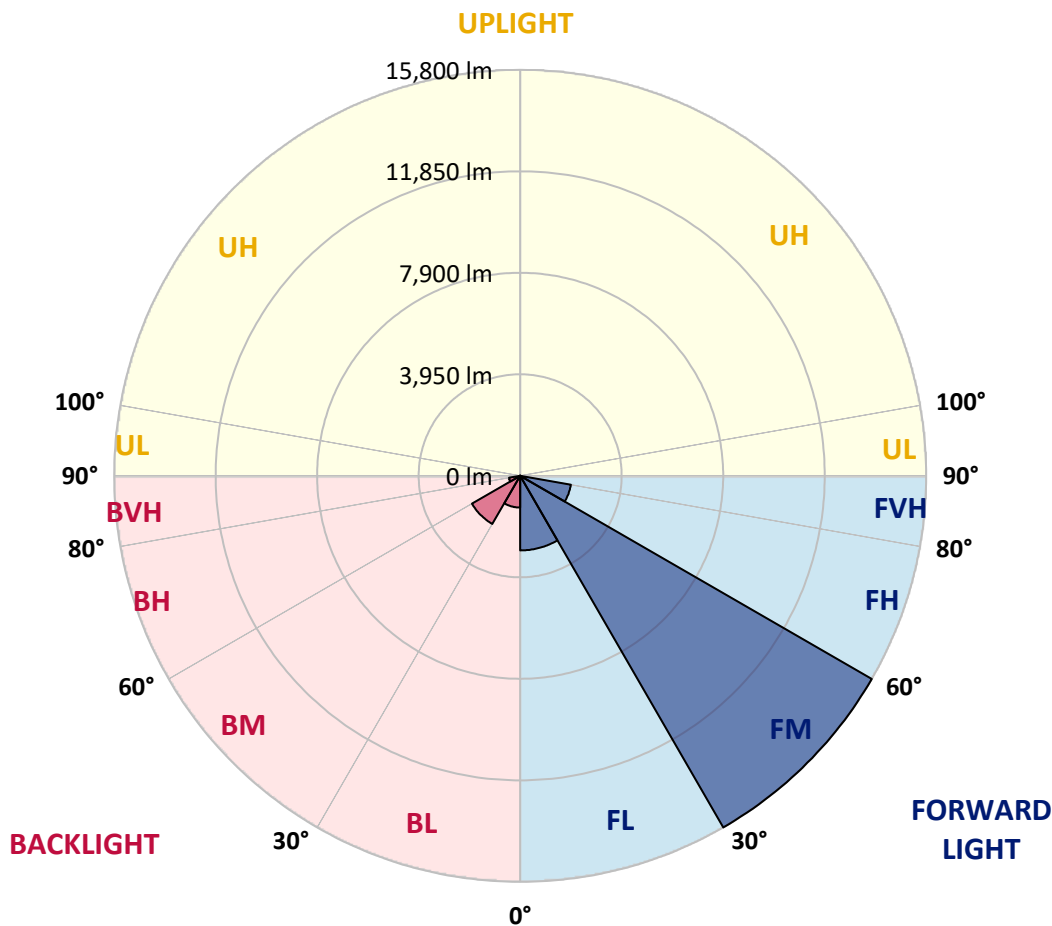


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2903.3	11.8			
FM (30°-60°)	15800.3	64.2			
FH (60°-80°)	2004.4	8.2			G2/5000
FVH (80°-90°)	20.7	0.1			G1/100
BL (0°-30°)	1235.9	5.0	B3/2500		
BM (30°-60°)	2165.1	8.8	B2/2500		
BH (60°-80°)	440.7	1.8	B1/500		G1/500
BVH (80°-90°)	21.5	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°	4093.4	4093.4	4093.4	4093.4	4093.4	4093.4	4093.4	4093.4	4093.4	4093.4	4093.4
2.5°	4714.4	4605.6	4610.1	4601.1	4587.5	4537.6	4388.0	4365.4	4265.6	4238.4	4147.8
5°	5281.0	5185.8	5240.2	5158.7	5081.6	5036.3	4791.5	4678.1	4519.5	4460.6	4333.6
7.5°	5634.6	5589.3	5571.2	5575.7	5503.2	5389.8	5281.0	5031.7	4818.7	4773.3	4505.9
10°	5806.9	5779.7	5806.9	5793.3	5825.0	5838.6	5648.2	5498.6	5185.8	5108.8	4691.7
12.5°	5847.7	5902.1	5924.7	5983.7	6060.7	6192.2	6178.6	5974.6	5557.6	5507.7	4977.3
15°	5947.4	5992.7	5970.1	6065.3	6210.3	6432.4	6550.3	6518.6	6069.8	5979.1	5308.2
17.5°	6038.1	5956.5	6033.5	6223.9	6369.0	6709.0	6994.5	7126.0	6627.4	6523.1	5612.0
20°	6160.5	6137.8	6124.2	6219.4	6477.8	6931.1	7497.7	7738.0	7252.9	7144.1	6047.1
22.5°	6532.2	6536.7	6527.6	6387.1	6573.0	7085.2	7937.4	8531.3	8000.9	7910.2	6541.2
25°	7021.7	6962.8	6917.5	6804.2	6781.5	7225.7	8381.7	9501.3	8898.4	8835.0	7076.1
27.5°	7538.5	7538.5	7402.5	7298.3	7153.2	7574.8	8789.7	10444.2	9981.9	9895.7	7543.1
30°	8100.6	8132.4	8114.2	7892.1	7801.4	7955.6	9206.7	11650.0	11223.9	11115.1	8313.7
32.5°	8930.2	8862.2	8939.2	8753.4	8485.9	8621.9	9864.0	12728.9	12837.7	12683.6	9324.6
35°	10027.2	9986.4	9936.5	9632.8	9315.5	9424.3	10793.3	14057.1	14864.0	14786.9	10344.5
37.5°	11010.9	10988.2	10947.4	10738.9	10371.7	10503.2	11849.5	15439.7	16840.4	16586.6	11786.0
40°	12044.4	12166.8	12035.3	11849.5	11514.0	11804.2	13091.5	16260.2	18504.1	18195.8	12887.6
42.5°	13445.1	13349.9	13408.9	13068.9	12887.6	13204.9	14338.1	17080.7	19796.0	19428.8	14057.1
45°	14936.5	14941.0	14782.4	14673.6	14202.2	14546.7	15104.2	17534.0	20825.0	20539.4	14941.0
47.5°	15893.0	15888.5	16060.7	16233.0	15747.9	15408.0	15625.5	17964.6	21355.4	21223.9	15262.9
50°	15743.4	15788.7	16010.9	16654.6	16908.4	16450.6	16115.1	17837.7	21595.6	21582.0	15539.4
52.5°	13694.4	13844.0	14215.8	15145.0	16423.4	16990.0	16627.4	18073.4	21713.5	21736.1	15951.9
55°	10426.1	10507.7	11214.9	12343.6	13757.9	15698.1	16423.4	18259.3	21804.1	21844.9	16450.6
56°	9043.5	8825.9	9845.9	10648.2	12339.1	14460.5	15906.6	18114.2	21749.7	22062.5	16699.9
57.5°	6826.8	6681.8	7506.8	8508.6	10136.0	12375.3	14301.9	17429.7	21382.6	21378.0	16341.8
60°	4152.3	4007.2	4641.9	5231.2	6142.3	7620.1	9664.5	13880.3	18077.9	18458.7	13232.1
62.5°	2470.5	2561.2	3186.8	3544.9	3839.5	3993.6	5000.0	8250.2	12062.5	12334.5	8209.4
65°	1645.5	1677.2	2148.7	2738.0	2869.4	2284.7	2035.4	3340.9	5231.2	5063.5	3386.2
67.5°	1015.4	1087.9	1441.5	2058.0	2280.1	1668.2	965.5	1246.6	1441.5	1441.5	979.1
70°	616.5	652.8	961.0	1400.7	1563.9	1074.3	702.6	702.6	693.6	680.0	584.8
72.5°	294.7	317.3	489.6	720.8	734.4	566.6	544.0	593.8	580.2	575.7	485.0
75°	126.9	136.0	172.3	226.7	258.4	240.3	330.9	426.1	439.7	426.1	349.0
77.5°	40.8	45.3	63.5	81.6	86.1	104.3	140.5	176.8	204.0	190.4	172.3
80°	4.5	9.1	18.1	40.8	63.5	81.6	104.3	117.9	131.5	131.5	122.4
82.5°	4.5	4.5	18.1	36.3	58.9	77.1	99.7	113.3	131.5	136.0	126.9
85°	0.0	4.5	13.6	31.7	49.9	49.9	45.3	45.3	31.7	31.7	31.7
87.5°	0.0	0.0	4.5	4.5	4.5	9.1	9.1	9.1	9.1	9.1	9.1
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°	4093.4	4093.4	4093.4	4093.4	4093.4	4093.4	4093.4	4093.4	4093.4	4093.4	4093.4
2.5°	4129.6	4120.6	3998.2	3921.1	3880.3	3798.7	3748.9	3712.6	3685.4	3653.7	3658.2
5°	4184.0	4152.3	3948.3	3807.8	3640.1	3549.4	3472.3	3408.9	3368.1	3359.0	3340.9
7.5°	4338.2	4170.4	3862.2	3608.3	3395.3	3304.6	3236.6	3195.8	3214.0	3173.2	3204.9
10°	4456.0	4206.7	3757.9	3390.7	3177.7	3109.7	3073.4	3105.2	3150.5	3132.4	3109.7
12.5°	4601.1	4243.0	3590.2	3182.2	2982.8	2932.9	2996.4	3055.3	3146.0	3182.2	3136.9
15°	4764.3	4283.8	3377.1	2942.0	2815.0	2855.8	2964.6	3068.9	3159.6	3204.9	3232.1
17.5°	4963.7	4270.2	3168.6	2751.6	2656.4	2774.2	2905.7	3000.9	3136.9	3204.9	3186.8
20°	5149.6	4224.8	2937.4	2561.2	2565.7	2674.5	2783.3	2937.4	3010.0	3100.6	3068.9
22.5°	5326.4	4143.2	2697.2	2429.7	2429.7	2597.5	2651.9	2751.6	2815.0	2860.4	2855.8
25°	5575.7	3989.1	2497.7	2302.8	2357.2	2466.0	2511.3	2543.1	2515.9	2552.1	2556.7
27.5°	5752.5	3830.5	2334.5	2189.5	2289.2	2370.8	2357.2	2339.1	2275.6	2225.7	2257.5
30°	5942.9	3644.6	2194.0	2112.4	2166.8	2239.3	2184.9	2130.5	2030.8	1949.2	1953.8
32.5°	6214.9	3558.5	2071.6	2021.8	2094.3	2103.4	2044.4	1962.8	1863.1	1786.0	1781.5
35°	6722.6	3504.1	1967.4	1962.8	1976.4	1981.0	1922.0	1822.3	1781.5	1718.0	1740.7
37.5°	7230.3	3476.9	1894.8	1876.7	1872.2	1876.7	1808.7	1713.5	1790.6	1786.0	1795.1
40°	7878.5	3599.3	1790.6	1767.9	1772.4	1772.4	1686.3	1659.1	1795.1	1808.7	1813.2
42.5°	8535.8	3753.4	1722.6	1650.0	1668.2	1668.2	1622.8	1591.1	1686.3	1595.6	1582.0
45°	9107.0	3980.0	1650.0	1532.2	1577.5	1600.2	1586.6	1532.2	1473.3	1319.1	1319.1
47.5°	9292.8	4179.5	1563.9	1418.9	1455.1	1554.8	1514.1	1400.7	1296.5	1169.5	1160.5
50°	9619.2	4397.1	1495.9	1287.4	1364.5	1486.9	1446.1	1332.7	1214.9	1124.2	1128.7
52.5°	9954.7	4646.4	1369.0	1133.3	1228.5	1432.5	1432.5	1305.5	1124.2	1060.7	1051.7
55°	10457.8	4637.3	1142.3	929.3	1097.0	1350.9	1373.5	1169.5	1006.3	956.5	956.5
56°	10530.4	4428.8	1029.0	870.4	1038.1	1328.2	1332.7	1133.3	961.0	906.6	906.6
57.5°	9986.4	3998.2	902.1	797.8	965.5	1287.4	1291.9	1101.5	924.7	847.7	838.6
60°	7683.6	2706.3	752.5	711.7	874.9	1160.5	1183.1	1001.8	811.4	752.5	748.0
62.5°	4338.2	1500.5	661.8	643.7	752.5	988.2	1056.2	874.9	689.0	657.3	666.4
65°	1981.0	825.0	557.6	521.3	607.4	761.6	852.2	720.8	566.6	530.4	530.4
67.5°	725.3	562.1	476.0	412.5	426.1	494.1	553.0	466.9	376.2	321.8	335.4
70°	516.8	471.4	417.0	358.1	330.9	321.8	317.3	262.9	185.9	145.1	154.1
72.5°	417.0	389.8	349.0	303.7	258.4	217.6	185.9	136.0	86.1	58.9	54.4
75°	299.2	285.6	253.9	217.6	181.3	154.1	126.9	86.1	45.3	22.7	22.7
77.5°	154.1	154.1	149.6	136.0	113.3	90.7	72.5	49.9	27.2	9.1	9.1
80°	117.9	126.9	131.5	117.9	104.3	81.6	58.9	36.3	18.1	4.5	4.5
82.5°	113.3	131.5	140.5	122.4	104.3	77.1	58.9	36.3	18.1	4.5	4.5
85°	27.2	27.2	40.8	45.3	58.9	63.5	49.9	31.7	13.6	4.5	4.5
87.5°	9.1	9.1	9.1	9.1	9.1	9.1	4.5	4.5	4.5	4.5	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)