

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: P530215

Luminaire Tested: **GALN-SA5B-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530215
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-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 13358 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

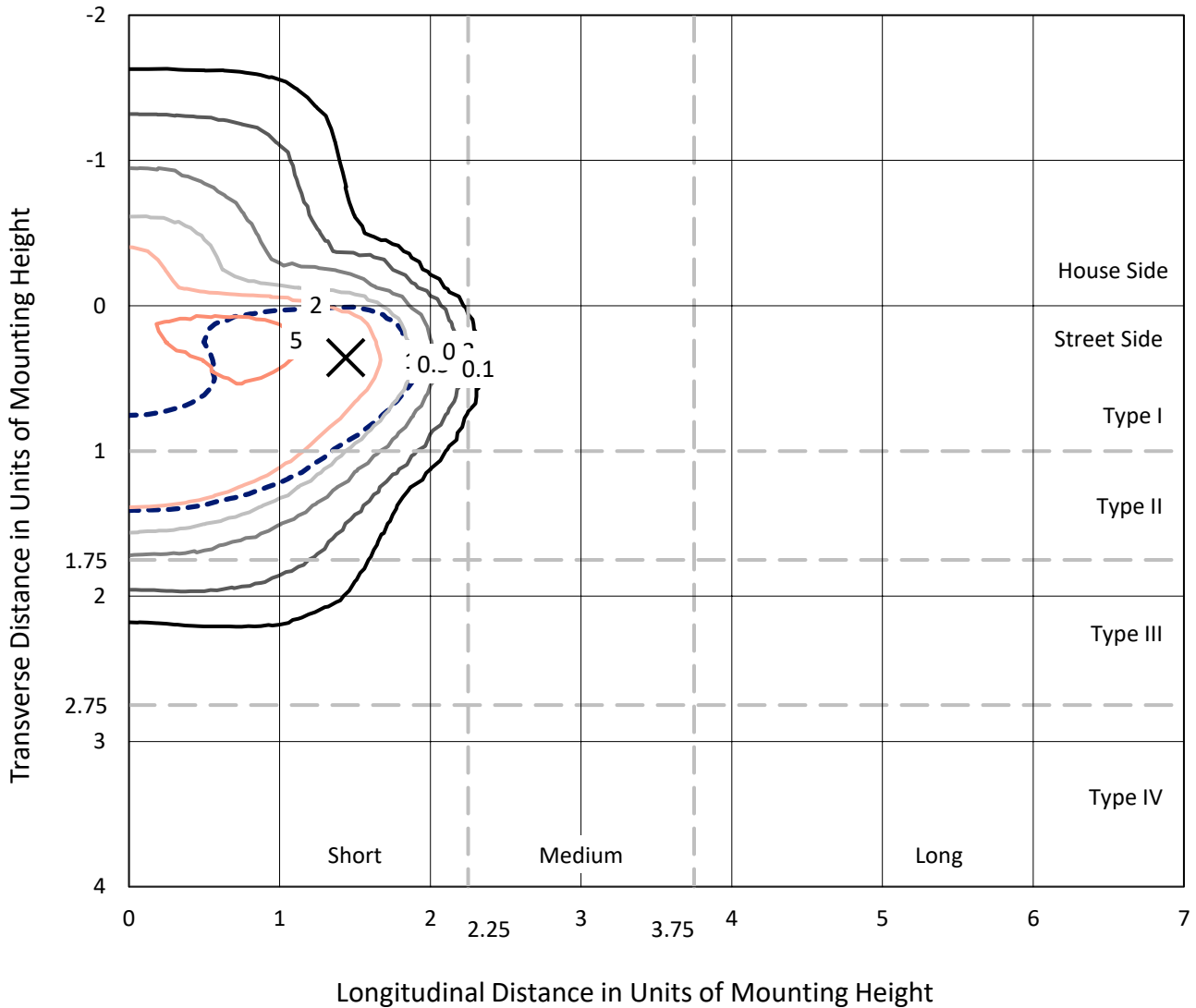
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

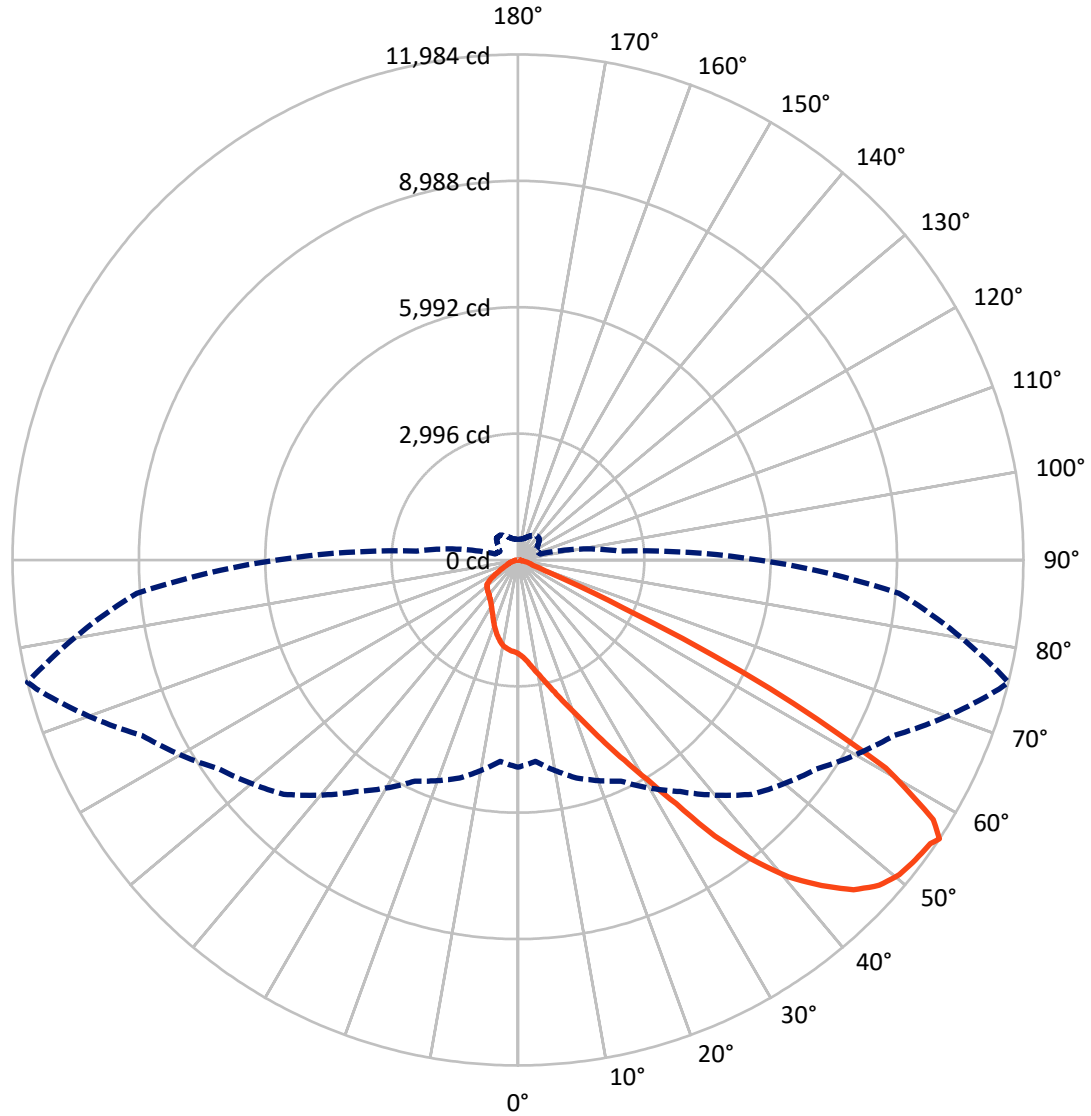
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	2098.5	0.0	2098.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	11259.5	0.0	11259.5
	% Fixture	84.3	0.0	84.3
Total	Lumens	13358.0	0.0	13358.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.0	1.7
10°-20°	719.6	5.4
20°-30°	1304.8	9.8
30°-40°	2250.2	16.8
40°-50°	3655.4	27.4
50°-60°	3853.0	28.8
60°-70°	1177.2	8.8
70°-80°	150.9	1.1
80°-90°	22.9	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°	13358.0	100.0
0°-180°	13358.0	100.0

Coefficient of Utilization

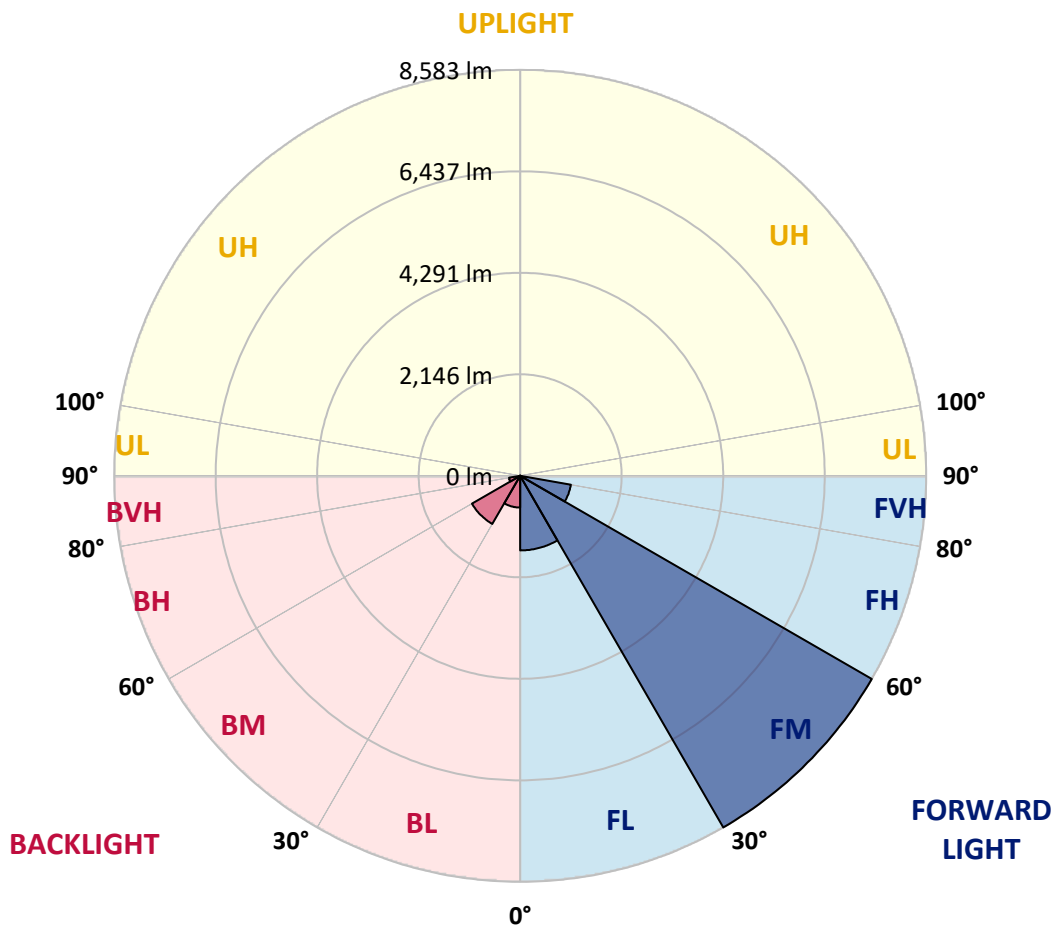


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1577.0	11.8			
FM (30°-60°)	8582.5	64.2			
FH (60°-80°)	1088.8	8.2			G1/1800
FVH (80°-90°)	11.2	0.1			G1/100
BL (0°-30°)	671.3	5.0	B2/1000		
BM (30°-60°)	1176.1	8.8	B2/2500		
BH (60°-80°)	239.4	1.8	B1/500		G1/500
BVH (80°-90°)	11.7	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°	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5
2.5°	2560.8	2501.7	2504.2	2499.2	2491.9	2464.8	2383.5	2371.2	2317.0	2302.3	2253.0
5°	2868.6	2816.9	2846.4	2802.1	2760.2	2735.6	2602.7	2541.1	2454.9	2422.9	2354.0
7.5°	3060.6	3036.0	3026.2	3028.6	2989.2	2927.7	2868.6	2733.2	2617.4	2592.8	2447.5
10°	3154.2	3139.4	3154.2	3146.8	3164.1	3171.4	3068.0	2986.8	2816.9	2775.0	2548.5
12.5°	3176.4	3205.9	3218.2	3250.2	3292.1	3363.5	3356.1	3245.3	3018.8	2991.7	2703.6
15°	3230.5	3255.2	3242.9	3294.6	3373.4	3494.0	3558.0	3540.8	3297.0	3247.8	2883.4
17.5°	3279.8	3235.5	3277.3	3380.7	3459.5	3644.2	3799.3	3870.7	3599.9	3543.3	3048.3
20°	3346.3	3334.0	3326.6	3378.3	3518.6	3764.9	4072.6	4203.2	3939.7	3880.6	3284.7
22.5°	3548.2	3550.6	3545.7	3469.4	3570.3	3848.6	4311.5	4634.1	4346.0	4296.7	3553.1
25°	3814.1	3782.1	3757.5	3695.9	3683.6	3924.9	4552.8	5161.0	4833.5	4799.0	3843.7
27.5°	4094.8	4094.8	4020.9	3964.3	3885.5	4114.5	4774.4	5673.1	5422.0	5375.2	4097.3
30°	4400.1	4417.4	4407.5	4286.9	4237.6	4321.3	5000.9	6328.1	6096.7	6037.6	4515.9
32.5°	4850.7	4813.8	4855.7	4754.7	4609.4	4683.3	5358.0	6914.1	6973.2	6889.5	5065.0
35°	5446.6	5424.5	5397.4	5232.4	5060.0	5119.1	5862.7	7635.6	8073.9	8032.0	5619.0
37.5°	5980.9	5968.6	5946.5	5833.2	5633.7	5705.2	6436.5	8386.6	9147.5	9009.6	6402.0
40°	6542.3	6608.8	6537.4	6436.5	6254.2	6411.8	7111.1	8832.3	10051.1	9883.7	7000.3
42.5°	7303.2	7251.5	7283.5	7098.8	7000.3	7172.7	7788.3	9278.0	10752.9	10553.4	7635.6
45°	8113.3	8115.7	8029.6	7970.5	7714.4	7901.5	8204.4	9524.2	11311.8	11156.7	8115.7
47.5°	8632.8	8630.4	8723.9	8817.5	8554.0	8369.4	8487.6	9758.1	11599.9	11528.5	8290.6
50°	8551.6	8576.2	8696.9	9046.5	9184.4	8935.7	8753.5	9689.2	11730.4	11723.0	8440.8
52.5°	7438.6	7519.9	7721.8	8226.6	8920.9	9228.7	9031.7	9817.2	11794.4	11806.7	8664.8
55°	5663.3	5707.6	6091.7	6704.8	7473.1	8527.0	8920.9	9918.2	11843.7	11865.8	8935.7
56°	4912.3	4794.1	5348.1	5783.9	6702.4	7854.7	8640.2	9839.4	11814.1	11984.0	9071.1
57.5°	3708.2	3629.4	4077.6	4621.7	5505.7	6722.1	7768.6	9467.6	11614.7	11612.2	8876.6
60°	2255.5	2176.7	2521.4	2841.5	3336.4	4139.1	5249.6	7539.6	9819.7	10026.5	7187.5
62.5°	1342.0	1391.2	1731.0	1925.5	2085.6	2169.3	2715.9	4481.4	6552.2	6699.9	4459.2
65°	893.8	911.1	1167.1	1487.2	1558.6	1241.0	1105.6	1814.7	2841.5	2750.4	1839.3
67.5°	551.6	591.0	783.0	1117.9	1238.5	906.1	524.5	677.1	783.0	783.0	531.9
70°	334.9	354.6	522.0	760.9	849.5	583.6	381.7	381.7	376.7	369.3	317.6
72.5°	160.0	172.4	265.9	391.5	398.9	307.8	295.5	322.6	315.2	312.7	263.5
75°	68.9	73.9	93.6	123.1	140.4	130.5	179.7	231.5	238.8	231.5	189.6
77.5°	22.2	24.6	34.5	44.3	46.8	56.6	76.3	96.0	110.8	103.4	93.6
80°	2.5	4.9	9.8	22.2	34.5	44.3	56.6	64.0	71.4	71.4	66.5
82.5°	2.5	2.5	9.8	19.7	32.0	41.9	54.2	61.6	71.4	73.9	68.9
85°	0.0	2.5	7.4	17.2	27.1	27.1	24.6	24.6	17.2	17.2	17.2
87.5°	0.0	0.0	2.5	2.5	2.5	4.9	4.9	4.9	4.9	4.9	4.9
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°	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5
2.5°	2243.2	2238.2	2171.8	2129.9	2107.7	2063.4	2036.3	2016.6	2001.9	1984.6	1987.1
5°	2272.7	2255.5	2144.7	2068.3	1977.2	1928.0	1886.1	1851.7	1829.5	1824.6	1814.7
7.5°	2356.4	2265.3	2097.9	1960.0	1844.3	1795.0	1758.1	1735.9	1745.8	1723.6	1740.8
10°	2420.4	2285.0	2041.2	1841.8	1726.1	1689.1	1669.4	1686.7	1711.3	1701.5	1689.1
12.5°	2499.2	2304.7	1950.1	1728.5	1620.2	1593.1	1627.6	1659.6	1708.8	1728.5	1703.9
15°	2587.9	2326.9	1834.4	1598.0	1529.1	1551.3	1610.3	1667.0	1716.2	1740.8	1755.6
17.5°	2696.2	2319.5	1721.1	1494.6	1442.9	1506.9	1578.3	1630.0	1703.9	1740.8	1731.0
20°	2797.2	2294.9	1595.6	1391.2	1393.7	1452.8	1511.9	1595.6	1635.0	1684.2	1667.0
22.5°	2893.2	2250.5	1465.1	1319.8	1319.8	1410.9	1440.4	1494.6	1529.1	1553.7	1551.3
25°	3028.6	2166.8	1356.7	1250.8	1280.4	1339.5	1364.1	1381.4	1366.6	1386.3	1388.7
27.5°	3124.7	2080.6	1268.1	1189.3	1243.5	1287.8	1280.4	1270.5	1236.1	1209.0	1226.2
30°	3228.1	1979.7	1191.8	1147.4	1177.0	1216.4	1186.8	1157.3	1103.1	1058.8	1061.3
32.5°	3375.8	1932.9	1125.3	1098.2	1137.6	1142.5	1110.5	1066.2	1012.0	970.1	967.7
35°	3651.6	1903.4	1068.6	1066.2	1073.6	1076.0	1044.0	989.8	967.7	933.2	945.5
37.5°	3927.4	1888.6	1029.2	1019.4	1016.9	1019.4	982.5	930.8	972.6	970.1	975.1
40°	4279.5	1955.1	972.6	960.3	962.8	962.8	916.0	901.2	975.1	982.5	984.9
42.5°	4636.5	2038.8	935.7	896.3	906.1	906.1	881.5	864.3	916.0	866.7	859.3
45°	4946.8	2161.9	896.3	832.3	856.9	869.2	861.8	832.3	800.2	716.5	716.5
47.5°	5047.7	2270.2	849.5	770.7	790.4	844.6	822.4	760.9	704.2	635.3	630.3
50°	5225.0	2388.4	812.6	699.3	741.2	807.6	785.5	723.9	659.9	610.7	613.1
52.5°	5407.2	2523.9	743.6	615.6	667.3	778.1	778.1	709.1	610.7	576.2	571.3
55°	5680.5	2518.9	620.5	504.8	595.9	733.8	746.1	635.3	546.6	519.5	519.5
56°	5719.9	2405.7	558.9	472.8	563.9	721.5	723.9	615.6	522.0	492.5	492.5
57.5°	5424.5	2171.8	490.0	433.4	524.5	699.3	701.8	598.3	502.3	460.5	455.5
60°	4173.6	1470.0	408.7	386.6	475.2	630.3	642.7	544.2	440.8	408.7	406.3
62.5°	2356.4	815.0	359.5	349.6	408.7	536.8	573.7	475.2	374.3	357.0	362.0
65°	1076.0	448.1	302.9	283.2	329.9	413.7	462.9	391.5	307.8	288.1	288.1
67.5°	394.0	305.3	258.5	224.1	231.5	268.4	300.4	253.6	204.4	174.8	182.2
70°	280.7	256.1	226.5	194.5	179.7	174.8	172.4	142.8	101.0	78.8	83.7
72.5°	226.5	211.8	189.6	165.0	140.4	118.2	101.0	73.9	46.8	32.0	29.5
75°	162.5	155.1	137.9	118.2	98.5	83.7	68.9	46.8	24.6	12.3	12.3
77.5°	83.7	83.7	81.3	73.9	61.6	49.2	39.4	27.1	14.8	4.9	4.9
80°	64.0	68.9	71.4	64.0	56.6	44.3	32.0	19.7	9.8	2.5	2.5
82.5°	61.6	71.4	76.3	66.5	56.6	41.9	32.0	19.7	9.8	2.5	2.5
85°	14.8	14.8	22.2	24.6	32.0	34.5	27.1	17.2	7.4	2.5	2.5
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	2.5	2.5	2.5	2.5	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)