

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: P651260

Luminaire Tested: **GALN-SA2D-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651260  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-840-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11420.8 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

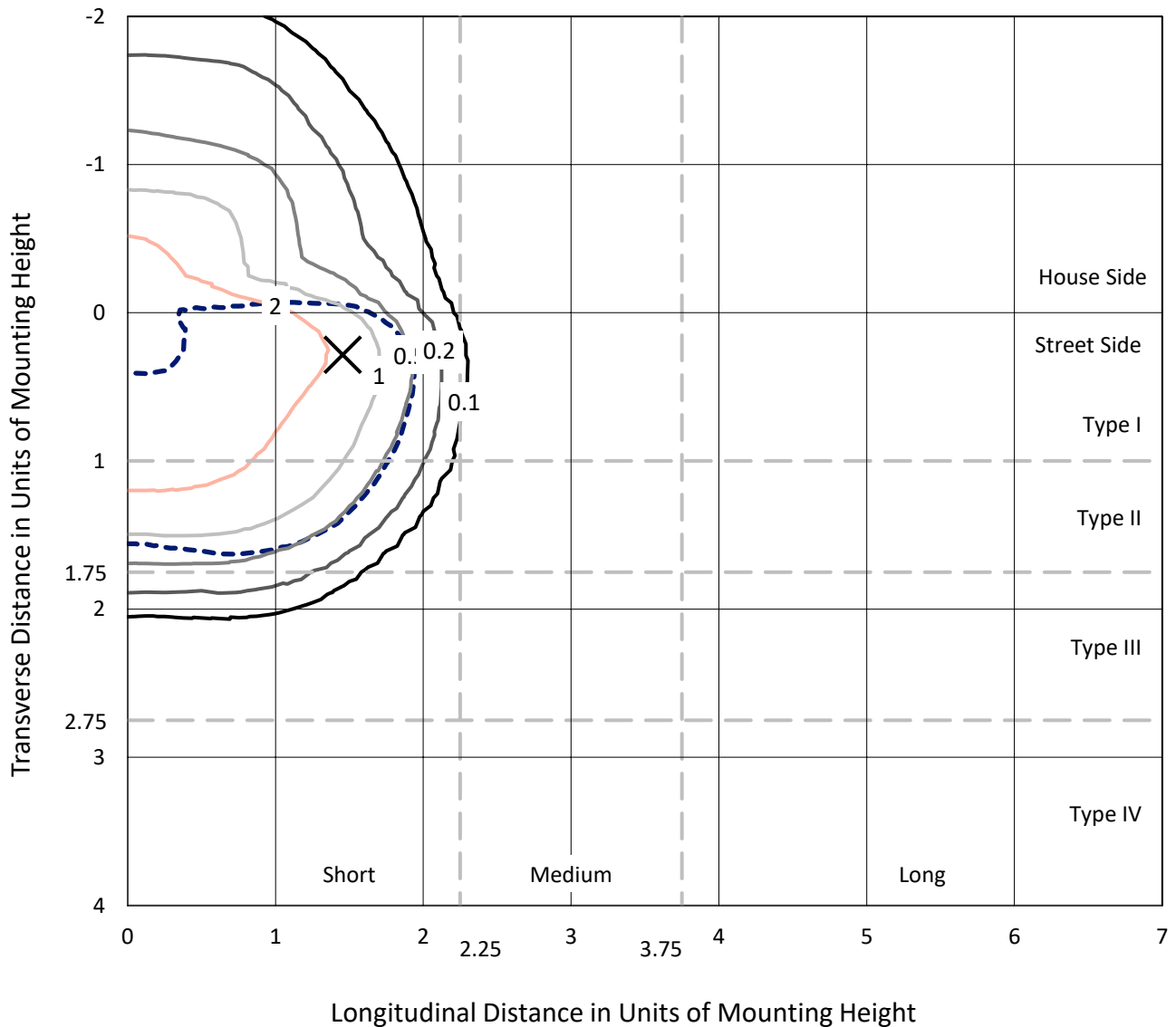
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

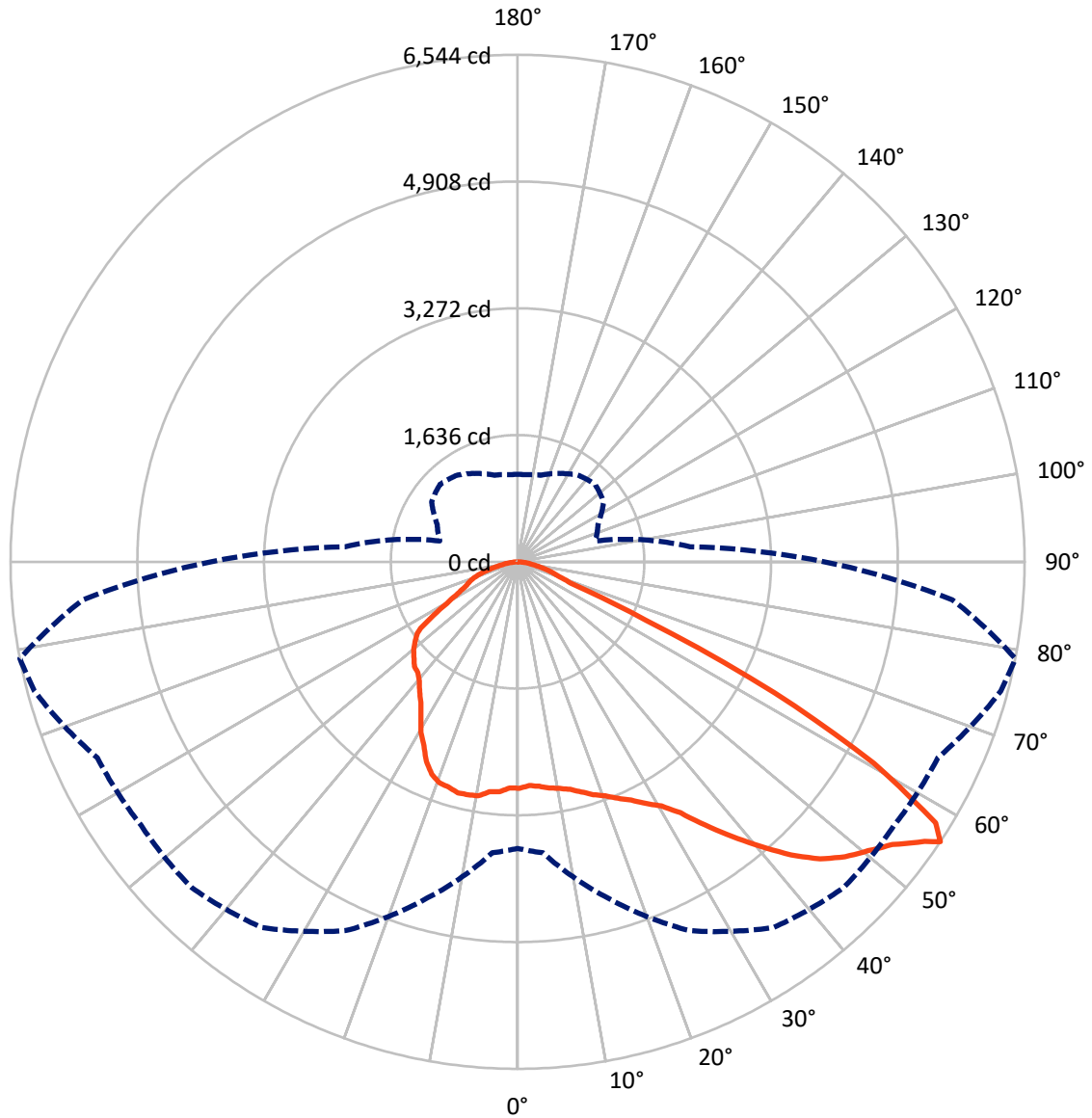
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3372.8	0.0	3372.8
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	8048.0	0.0	8048.0
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	11420.8	0.0	11420.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.7	2.3
10°-20°	727.1	6.4
20°-30°	1243.9	10.9
30°-40°	1906.4	16.7
40°-50°	2576.5	22.6
50°-60°	2959.2	25.9
60°-70°	1348.9	11.8
70°-80°	332.6	2.9
80°-90°	60.4	0.5
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°	11420.8	100.0
0°-180°	11420.8	100.0

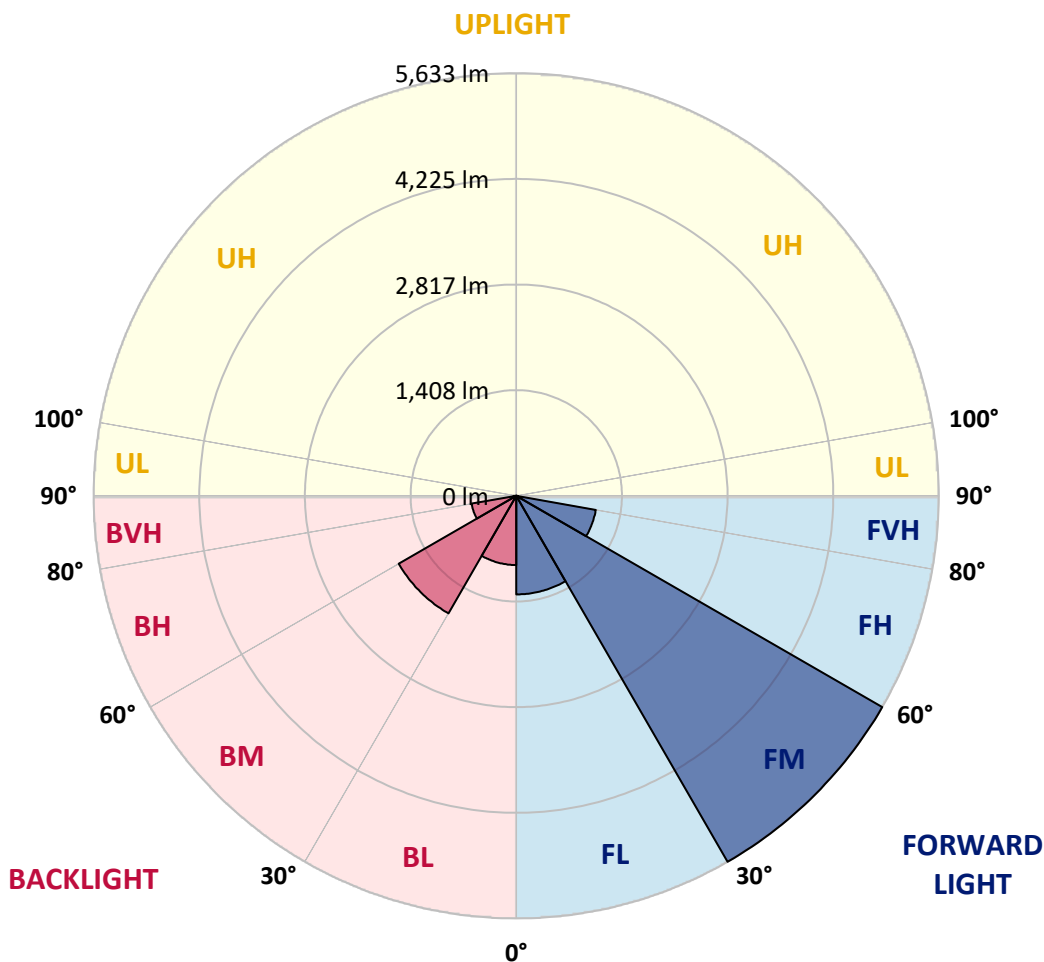


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1314.1	11.5			
FM (30°-60°)	5633.1	49.3			
FH (60°-80°)	1076.7	9.4			G1/1800
FVH (80°-90°)	24.1	0.2			G1/100
BL (0°-30°)	922.6	8.1	B2/1000		
BM (30°-60°)	1809.1	15.8	B2/2500		
BH (60°-80°)	604.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	36.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1
2.5°	2779.8	2772.8	2789.8	2802.6	2818.3	2838.2	2848.1	2853.8	2903.6	2890.9	2929.2
5°	2720.1	2701.6	2714.4	2724.3	2751.4	2775.6	2802.6	2845.3	2890.9	2910.8	2957.7
7.5°	2667.5	2657.5	2654.7	2661.8	2698.8	2730.1	2777.0	2839.6	2913.6	2946.3	2973.4
10°	2580.7	2566.5	2587.8	2634.8	2644.7	2710.1	2764.2	2853.8	2917.8	2974.8	3054.4
12.5°	2542.3	2528.0	2532.3	2559.3	2629.1	2691.6	2755.7	2856.7	2991.9	3014.6	3121.3
15°	2603.5	2589.2	2593.5	2586.4	2653.3	2686.0	2787.0	2913.6	3043.1	3081.4	3195.3
17.5°	2742.8	2744.3	2725.8	2710.1	2694.5	2764.2	2833.9	2947.7	3063.0	3159.7	3245.1
20°	3008.9	2961.9	2925.0	2836.8	2812.6	2842.5	2930.6	3040.2	3144.1	3223.7	3320.4
22.5°	3213.8	3218.0	3165.4	3020.3	2967.6	2980.4	3055.9	3145.5	3259.3	3316.2	3427.2
25°	3511.1	3481.2	3424.3	3309.1	3191.0	3200.9	3256.4	3337.5	3368.9	3408.7	3529.6
27.5°	3782.8	3791.4	3679.0	3570.9	3424.3	3395.9	3495.4	3509.7	3457.0	3532.5	3573.7
30°	4058.8	4051.7	3977.8	3851.1	3707.5	3713.1	3757.3	3687.5	3615.0	3656.2	3684.7
32.5°	4344.8	4263.7	4260.8	4147.1	4037.5	3984.8	3930.7	3964.9	3852.5	3861.1	3834.0
35°	4573.9	4585.2	4519.8	4438.6	4384.6	4292.1	4144.2	4205.3	4184.0	4174.1	4057.4
37.5°	4740.3	4696.1	4728.9	4701.9	4650.6	4535.4	4381.8	4440.1	4450.1	4498.4	4363.3
40°	4876.9	4858.4	4945.2	4959.4	4923.8	4674.9	4398.9	4572.4	4721.8	4827.1	4666.3
42.5°	4942.3	4982.1	5073.2	5182.7	5103.0	4837.0	4487.1	4673.4	5006.3	5172.7	4953.7
45°	5030.5	4979.3	5114.5	5315.0	5316.5	4973.6	4572.4	4810.0	5228.2	5470.1	5150.0
47.5°	4940.9	4966.4	5105.9	5360.5	5426.0	5117.3	4802.9	5003.4	5473.0	5687.8	5332.1
50°	4740.3	4791.5	5046.2	5310.7	5508.5	5269.5	5067.4	5212.6	5699.1	5862.8	5362.0
52.5°	4531.1	4559.6	4957.9	5349.2	5545.5	5465.8	5421.8	5501.4	5975.1	6060.5	5399.0
55°	3962.1	4097.3	4666.3	5332.1	5726.2	5820.1	5785.9	5902.6	6288.2	6373.5	5601.0
56°	3698.9	3770.0	4491.3	5252.5	5761.8	5949.5	5932.4	5985.1	6454.6	6544.2	5632.3
57.5°	3212.4	3218.0	3829.7	4899.6	5628.0	5987.9	5970.8	6012.1	6421.9	6360.7	5357.7
60°	2010.2	2098.4	2606.3	3768.6	4785.8	5555.5	5652.2	5320.8	5414.6	5285.2	4168.3
62.5°	1041.4	1028.5	1365.8	2203.7	3176.8	3977.8	4067.3	4051.7	3906.6	3717.4	2723.0
65°	519.2	522.1	714.2	1091.2	1627.5	2082.7	2333.2	2360.2	1974.7	1816.7	1291.8
67.5°	377.0	391.2	513.6	667.2	766.8	857.8	1051.3	1031.4	781.0	742.6	688.5
70°	293.1	305.9	416.8	509.3	462.4	462.4	503.6	520.7	556.2	571.9	590.4
72.5°	213.4	223.4	318.7	351.4	303.0	325.8	377.0	416.8	453.8	459.5	480.9
75°	146.5	155.1	209.2	193.5	182.1	224.8	276.0	313.0	340.0	354.2	367.0
77.5°	95.3	98.1	119.5	101.0	116.6	145.1	179.2	210.6	237.6	248.9	251.8
80°	42.6	46.9	51.2	64.0	81.1	103.9	128.0	153.7	170.7	175.0	183.5
82.5°	24.2	24.2	31.3	45.5	59.7	75.4	92.5	110.9	130.9	135.1	133.7
85°	12.8	12.8	18.5	27.0	37.0	44.1	42.6	44.1	46.9	54.1	52.6
87.5°	4.3	4.3	5.7	5.7	7.1	8.5	7.1	9.9	12.8	12.8	12.8
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°	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1
2.5°	2917.8	2930.6	2913.6	2950.6	2950.6	2943.5	2907.9	2919.3	2927.9	2927.9	2934.9
5°	2973.4	2969.1	2980.4	2936.4	2909.4	2899.3	2841.1	2812.6	2788.4	2787.0	2765.6
7.5°	3004.6	2993.3	2989.0	2956.3	2836.8	2764.2	2639.1	2566.5	2550.8	2495.3	2516.7
10°	3054.4	3075.8	3054.4	2876.6	2710.1	2543.7	2421.3	2309.0	2264.9	2229.3	2208.0
12.5°	3156.9	3146.9	3023.1	2782.7	2549.4	2351.6	2169.5	2051.5	2007.4	1976.1	1973.2
15°	3243.7	3193.9	3004.6	2634.8	2299.0	2088.5	1939.1	1855.2	1835.2	1838.1	1850.9
17.5°	3273.5	3239.4	2907.9	2481.1	2112.7	1865.1	1795.4	1782.6	1801.1	1822.4	1828.1
20°	3320.4	3266.4	2868.1	2272.0	1882.2	1725.6	1721.4	1766.9	1801.1	1832.4	1836.7
22.5°	3418.7	3282.1	2738.6	2074.2	1724.2	1684.4	1725.6	1764.1	1816.7	1842.3	1819.6
25°	3447.1	3247.9	2556.5	1836.7	1624.6	1658.8	1702.9	1755.6	1792.5	1806.8	1816.7
27.5°	3471.2	3195.3	2310.4	1678.7	1593.4	1657.4	1702.9	1747.0	1766.9	1779.7	1791.1
30°	3539.5	3179.7	2096.9	1573.4	1573.4	1628.9	1687.3	1698.7	1725.6	1741.3	1761.2
32.5°	3573.7	3071.5	1877.9	1506.6	1553.5	1643.1	1647.4	1668.8	1670.2	1683.0	1661.6
35°	3663.3	2994.7	1674.4	1458.2	1562.1	1628.9	1650.3	1637.5	1567.8	1533.6	1540.7
37.5°	3728.7	2956.3	1527.9	1452.5	1563.5	1644.6	1655.9	1559.2	1486.6	1429.8	1444.0
40°	3905.2	2860.9	1417.0	1442.6	1576.3	1661.6	1630.4	1525.1	1394.2	1335.8	1325.9
42.5°	4040.3	2792.6	1347.3	1431.2	1586.3	1685.9	1617.6	1456.8	1323.1	1269.0	1283.2
45°	4196.8	2777.0	1310.3	1434.1	1603.4	1698.7	1601.9	1404.1	1261.9	1240.6	1236.3
47.5°	4252.3	2664.6	1270.4	1409.9	1599.1	1694.4	1549.3	1364.4	1239.1	1242.0	1253.3
50°	4159.8	2549.4	1240.6	1360.1	1570.6	1655.9	1466.8	1311.7	1226.3	1261.9	1281.8
52.5°	4041.8	2431.3	1179.4	1293.2	1512.3	1596.2	1428.4	1308.8	1213.6	1202.1	1206.4
55°	4077.3	2334.5	1094.1	1202.1	1418.3	1485.2	1385.6	1281.8	1182.2	1139.6	1153.8
56°	3962.1	2235.0	1038.6	1145.3	1354.3	1414.1	1364.4	1257.6	1156.6	1128.2	1128.2
57.5°	3636.3	1900.7	966.0	1054.2	1219.2	1290.3	1323.1	1243.4	1128.2	1078.3	1079.8
60°	2681.7	1351.5	866.4	929.0	1010.0	1067.0	1219.2	1203.6	1057.1	1022.9	1010.0
62.5°	1653.2	987.3	795.2	819.5	860.7	907.7	1064.1	1089.8	981.6	944.6	936.1
65°	926.1	755.4	741.2	751.2	771.1	795.2	883.5	940.4	866.4	809.5	806.6
67.5°	677.2	675.7	687.2	695.7	704.3	704.3	725.5	748.3	738.3	692.8	688.5
70°	601.8	606.0	614.6	616.0	618.9	608.9	591.8	584.7	596.1	567.7	562.0
72.5°	496.5	510.7	520.7	522.1	506.5	493.7	470.9	446.7	438.2	432.5	431.1
75°	381.3	391.2	395.5	394.1	388.4	369.9	342.9	318.7	303.0	285.9	294.5
77.5°	257.5	271.7	278.9	278.9	270.3	241.9	229.1	210.6	194.9	176.4	179.2
80°	180.6	190.7	202.0	200.6	186.4	172.2	153.7	136.6	123.8	109.6	108.2
82.5°	135.1	140.9	146.5	143.7	133.7	119.5	106.7	91.1	76.8	66.9	66.9
85°	48.4	52.6	64.0	66.9	72.6	72.6	61.1	51.2	41.3	34.1	34.1
87.5°	14.2	14.2	15.6	15.6	14.2	15.6	12.8	14.2	15.6	9.9	9.9
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)