

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: P652600

Luminaire Tested: **GALN-SA9B-840-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652600  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-840-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43807.7 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

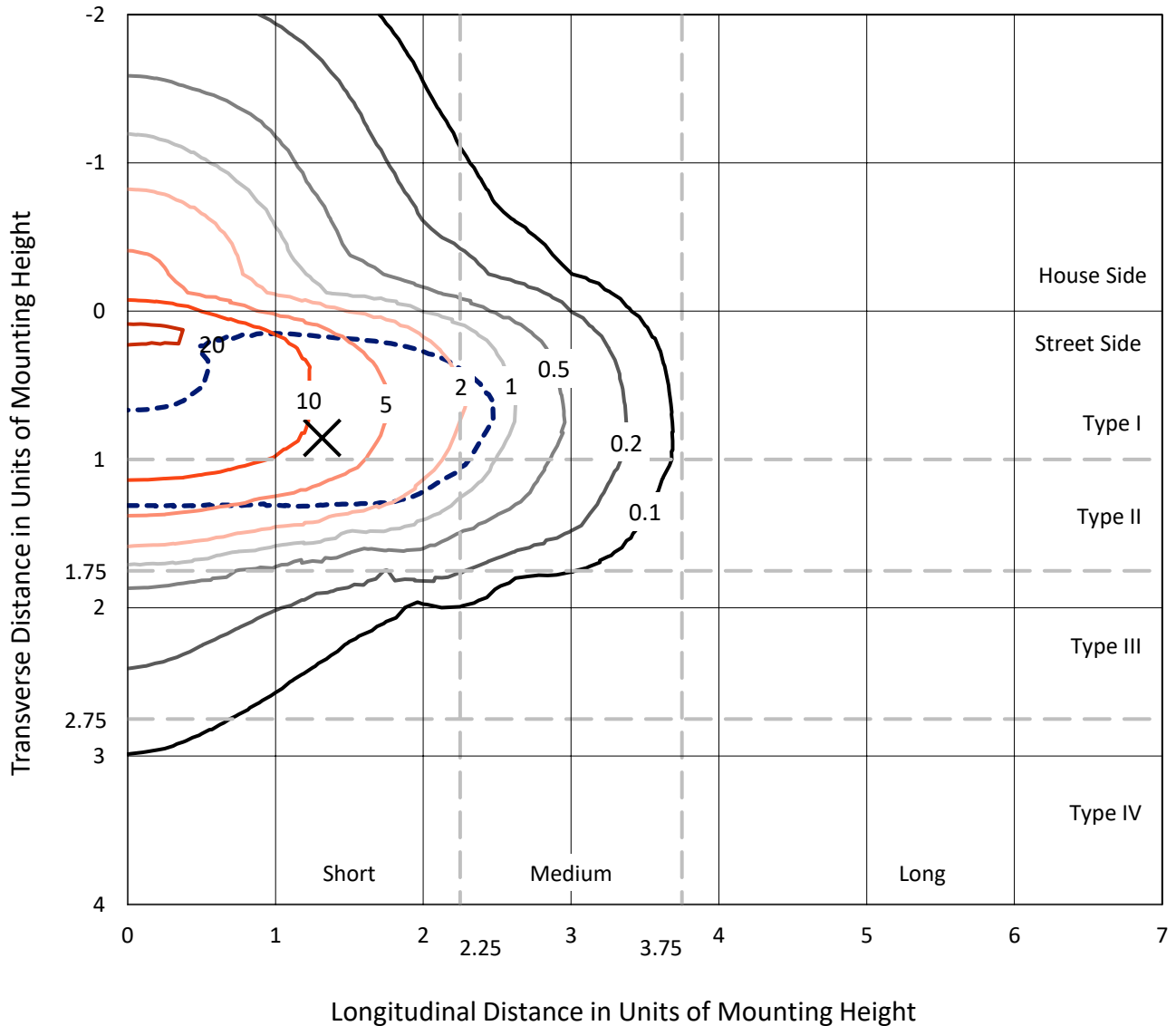
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

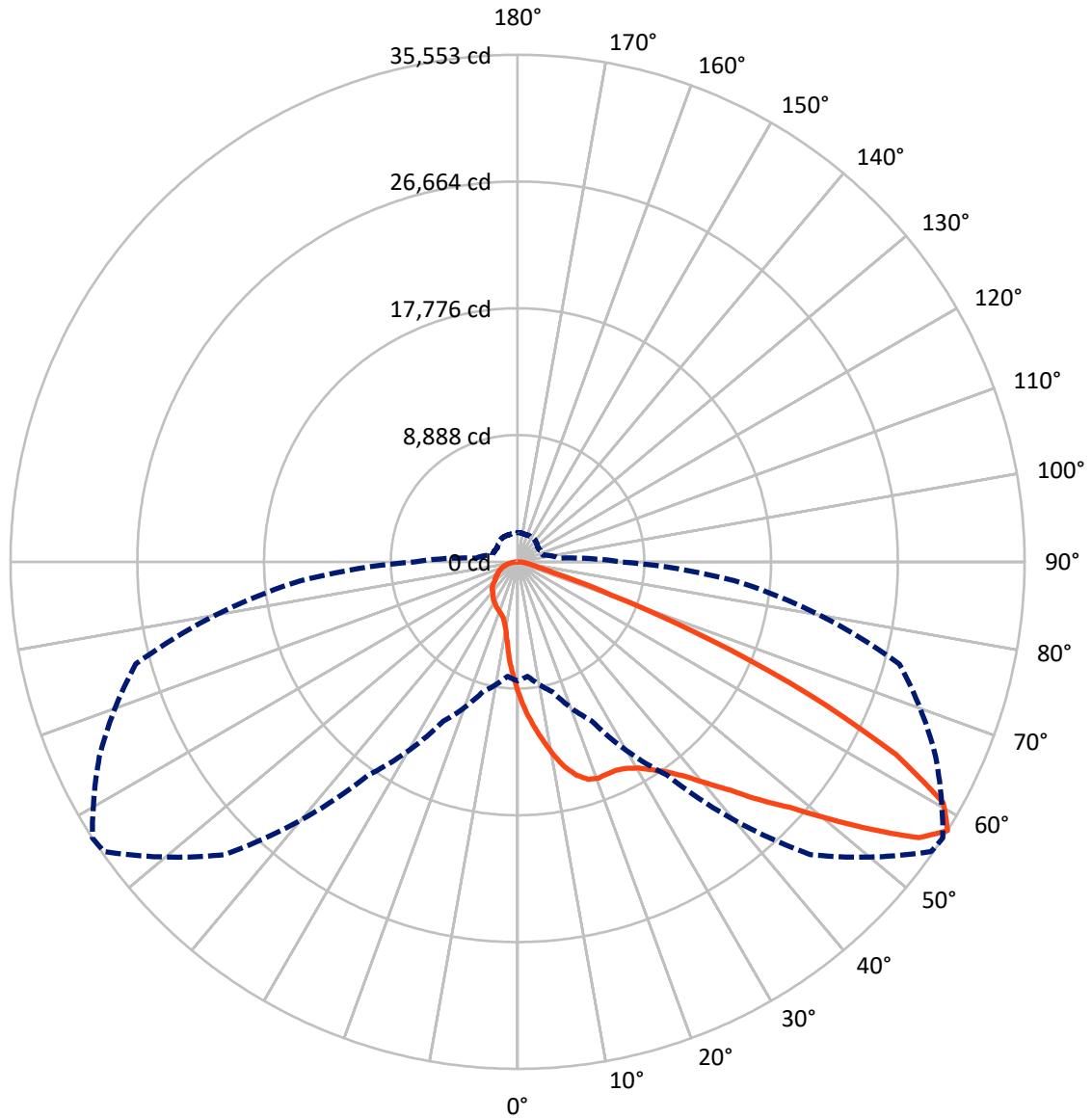
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6661.9	0.0	6661.9
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	37145.8	0.0	37145.8
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	43807.7	0.0	43807.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	884.5	2.0
10°-20°	2606.8	6.0
20°-30°	4328.6	9.9
30°-40°	6520.2	14.9
40°-50°	9789.5	22.3
50°-60°	10972.8	25.0
60°-70°	6421.8	14.7
70°-80°	1899.5	4.3
80°-90°	383.9	0.9
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°	43807.7	100.0
0°-180°	43807.7	100.0

**Coefficient of Utilization**



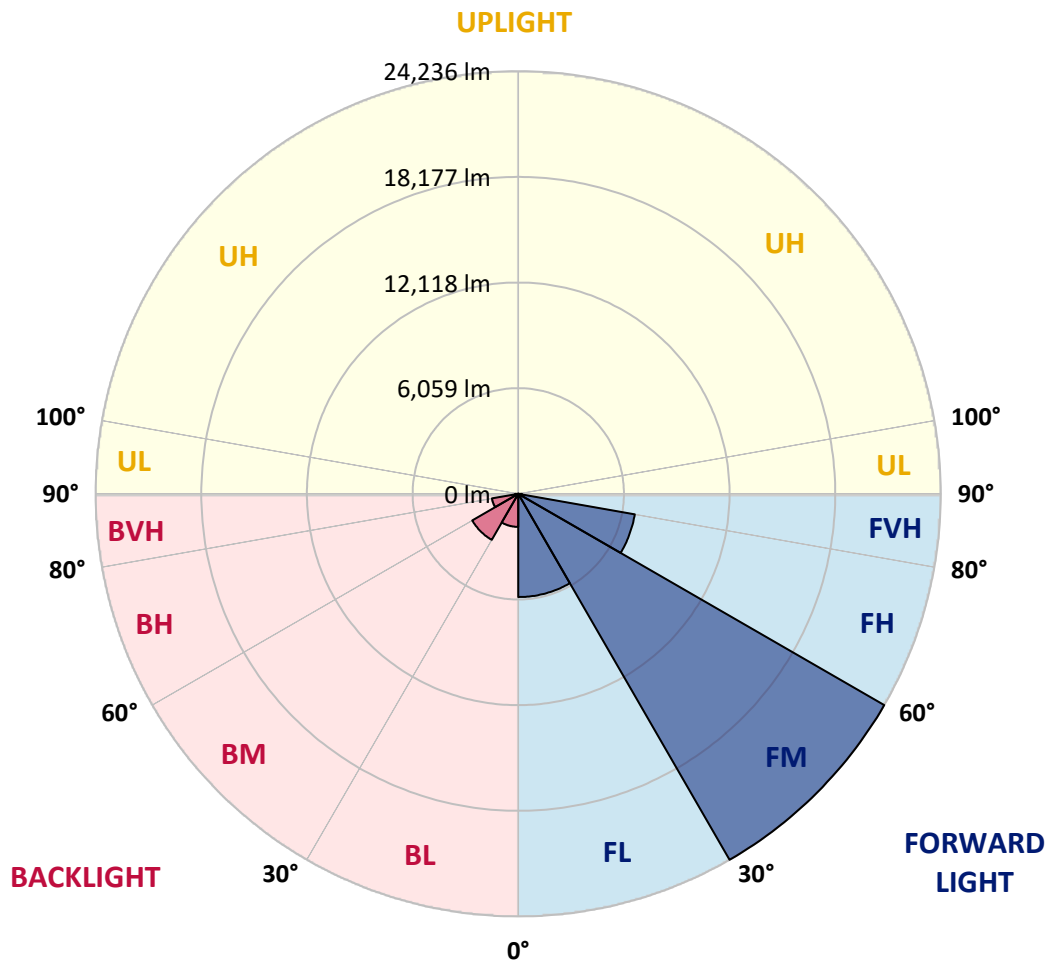
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5921.8	13.5			
FM (30°-60°)	24236.3	55.3			
FH (60°-80°)	6788.4	15.5			G3/7500
FVH (80°-90°)	199.2	0.5			G2/225
BL (0°-30°)	1898.2	4.3	B3/2500		
BM (30°-60°)	3046.1	7.0	B3/5000		
BH (60°-80°)	1532.9	3.5	B3/2500		G3/2500
BVH (80°-90°)	184.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9203.5	9203.5	9203.5	9203.5	9203.5	9203.5	9203.5	9203.5	9203.5	9203.5	9203.5
2.5°	11436.0	11311.4	11213.1	11126.7	11014.0	10709.5	10404.9	10400.1	10157.9	9783.8	9400.1
5°	13299.2	13131.4	13153.0	12884.4	12615.8	12174.6	11529.5	11496.0	10980.4	10280.2	9568.0
7.5°	14512.6	14515.1	14447.9	14294.4	14004.2	13503.1	12771.7	12606.3	11889.2	10826.9	9759.8
10°	14450.3	14515.1	14627.8	14759.6	14848.4	14601.4	13934.7	13733.3	12800.5	11488.8	9973.3
12.5°	13620.6	13721.3	13882.0	14212.9	14747.7	15155.3	14927.5	14764.4	13855.6	12148.2	10208.2
15°	13102.6	13162.6	13251.3	13474.3	14049.8	15025.8	15615.7	15529.4	14850.8	12894.0	10472.0
17.5°	12944.3	13004.3	13033.1	13169.8	13579.8	14579.8	15886.7	16040.1	15733.3	13579.8	10738.2
20°	13102.6	13131.4	13131.4	13213.0	13534.3	14318.4	15874.7	16184.0	16457.4	14402.4	10987.6
22.5°	13517.5	13529.5	13512.7	13541.4	13781.3	14390.4	15762.0	16145.7	17042.5	15100.2	11181.9
25°	14191.3	14210.5	14100.2	14033.0	14208.1	14706.9	15824.3	16176.9	17500.5	15766.8	11311.4
27.5°	14956.3	14980.2	14846.0	14690.1	14771.7	15097.8	16069.0	16385.5	17843.5	16423.9	11392.9
30°	15893.9	15903.5	15678.1	15491.1	15438.2	15680.4	16486.2	16781.1	18270.3	17198.4	11515.1
32.5°	16853.1	16925.0	16634.9	16371.1	16282.3	16356.7	17102.5	17387.8	18778.7	18030.5	11711.8
35°	18157.6	18169.6	17821.9	17500.5	17208.0	17303.9	17891.4	18097.6	19481.3	18992.1	11990.0
37.5°	19785.9	19896.1	19416.5	18817.0	18457.3	18318.2	18845.8	19071.3	20466.8	20171.9	12409.6
40°	21593.9	21634.7	21224.7	20850.6	20193.5	19790.7	20155.2	20399.7	21682.7	21579.6	12896.4
42.5°	22730.5	22819.3	22850.5	22812.1	22318.1	21641.9	21781.0	21896.1	23121.4	22900.9	13395.2
45°	23114.2	23246.2	23692.1	24637.0	24689.7	24023.1	23699.4	23809.6	24689.7	24234.1	13872.4
47.5°	22478.8	22704.2	23526.7	25464.3	26915.0	26965.4	25989.4	25747.2	26118.9	25339.6	14217.7
50°	20836.2	20884.1	22143.0	24948.7	27958.2	29778.3	28768.7	28317.9	27476.2	26157.3	14455.1
52.5°	18294.3	18349.4	19404.6	22553.1	27315.5	31744.6	32020.4	31214.6	28855.0	26792.7	14610.9
55°	13579.8	13898.8	15059.4	18102.4	24270.1	31560.0	34605.5	34147.4	30521.7	27296.3	14855.6
57.5°	8349.8	8057.3	9433.7	12316.1	18253.5	29022.9	35404.0	35552.6	32356.1	27718.4	15265.6
60°	3841.6	3899.1	4467.5	6352.2	11126.7	22704.2	33346.5	34286.5	33370.5	27704.0	15368.8
62.5°	2647.4	2594.7	2450.8	2788.8	5074.2	14359.1	28166.9	29759.1	31336.9	26843.1	14958.7
65°	2366.8	2314.1	2035.9	1942.4	2330.8	6258.7	20476.4	22486.0	26385.1	24670.6	13937.1
67.5°	2211.0	2139.0	1851.2	1669.0	1664.2	2491.5	12073.9	14493.5	19570.0	20857.7	12076.3
70°	2047.9	1990.3	1705.0	1503.5	1417.3	1565.9	5306.8	6947.0	12706.9	15030.6	9407.3
72.5°	1884.8	1817.7	1561.1	1345.3	1232.6	1172.6	2033.5	2644.9	7179.6	9011.7	5767.2
75°	1647.4	1613.9	1395.6	1218.2	1095.9	947.2	1290.1	1472.3	3433.9	4138.9	2894.4
77.5°	1441.2	1405.2	1239.8	1064.7	976.0	769.8	916.0	999.9	1448.4	1678.6	1306.9
80°	1055.1	1091.1	1045.5	940.0	870.4	604.3	616.3	685.8	860.8	952.0	798.5
82.5°	669.0	736.2	805.8	724.2	659.4	477.2	426.8	453.2	587.5	623.5	354.9
85°	280.6	285.4	467.6	441.2	376.5	283.0	256.6	271.0	314.1	328.5	165.4
87.5°	107.9	105.5	165.4	153.5	117.5	81.5	81.5	91.2	124.7	115.1	52.7
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°	9203.5	9203.5	9203.5	9203.5	9203.5	9203.5	9203.5	9203.5	9203.5	9203.5	9203.5
2.5°	9234.7	9064.4	8726.3	8306.6	7999.7	7654.4	7349.8	7131.6	7050.1	7011.8	6939.8
5°	9227.5	8891.7	8191.5	7457.7	6867.9	6263.5	5752.8	5421.8	5393.1	5172.5	5150.9
7.5°	9229.9	8716.7	7601.6	6522.5	5623.3	5004.6	4582.5	4472.3	4340.4	4306.8	4323.6
10°	9237.0	8493.7	6968.5	5596.9	4726.4	4321.1	4163.0	4119.7	4124.5	4138.9	4141.3
12.5°	9246.6	8277.9	6311.5	4894.3	4222.8	4055.0	4038.2	4076.6	4117.4	4148.5	4155.7
15°	9258.7	8030.9	5671.3	4328.4	3971.0	3956.7	4011.8	4076.6	4134.1	4179.7	4186.9
17.5°	9244.3	7743.1	5134.1	3980.7	3832.0	3901.6	3992.6	4074.2	4127.0	4170.1	4174.9
20°	9210.7	7421.8	4616.2	3736.1	3745.6	3858.3	3956.7	4033.4	4091.0	4112.6	4129.3
22.5°	9081.2	7038.1	4165.3	3546.7	3642.5	3798.5	3915.9	3961.4	3896.8	3851.2	3863.1
25°	8860.6	6539.4	3745.6	3393.2	3549.0	3714.5	3834.4	3724.1	3671.3	3652.1	3661.7
27.5°	8584.8	5992.5	3429.1	3232.5	3429.1	3621.0	3587.4	3568.2	3544.2	3513.0	3520.3
30°	8287.5	5457.8	3160.6	3107.8	3299.7	3409.9	3424.3	3455.5	3429.1	3381.2	3400.3
32.5°	8011.7	4954.2	2956.7	3002.3	3208.5	3191.8	3299.7	3335.6	3213.3	3052.7	3059.8
35°	7776.7	4486.7	2803.2	2899.2	3052.7	3059.8	3167.7	3043.1	2911.1	2834.4	2839.2
37.5°	7599.3	4122.2	2702.6	2810.5	2853.6	2944.8	2887.2	2822.4	2805.7	2752.9	2755.3
40°	7493.7	3803.3	2637.8	2740.9	2733.7	2796.1	2611.4	2676.1	2700.1	2683.4	2685.7
42.5°	7388.2	3577.8	2570.7	2644.9	2642.6	2520.3	2479.5	2534.7	2597.0	2604.2	2599.4
45°	7304.3	3402.8	2501.1	2498.7	2546.6	2354.8	2342.9	2376.4	2465.1	2508.3	2505.9
47.5°	7210.7	3256.4	2395.6	2328.5	2342.9	2251.7	2232.5	2246.9	2354.8	2424.4	2443.5
50°	7093.2	3110.2	2263.7	2172.6	2112.6	2155.8	2160.6	2163.0	2270.9	2350.0	2366.8
52.5°	6999.7	2999.8	2112.6	2045.5	1973.6	2069.4	2105.4	2110.2	2175.0	2239.8	2251.7
55°	7054.9	2937.5	1964.0	1916.0	1851.2	1980.7	2050.3	2059.9	2074.2	2122.3	2129.4
57.5°	7220.3	2951.9	1844.1	1781.7	1733.7	1875.3	1992.7	1999.9	1990.3	2047.9	2057.5
60°	7270.7	2944.8	1755.3	1633.1	1604.3	1762.5	1908.8	1923.2	1920.8	2004.7	2021.5
62.5°	7059.7	2853.6	1666.6	1508.3	1489.2	1647.4	1791.3	1848.9	1860.9	1980.7	2002.3
65°	6563.3	2666.6	1549.1	1376.5	1376.5	1525.2	1678.6	1757.7	1791.3	1952.0	1975.9
67.5°	5908.6	2446.0	1429.2	1263.8	1259.0	1407.6	1558.7	1640.2	1693.0	1911.2	1925.6
70°	4903.9	2148.6	1280.5	1141.4	1141.4	1275.7	1412.4	1510.8	1587.5	1834.5	1834.5
72.5°	3359.6	1786.5	1100.7	1002.4	1004.7	1129.5	1268.6	1378.8	1470.0	1681.0	1685.8
75°	2124.6	1395.6	904.1	853.7	863.3	980.8	1124.7	1239.8	1422.0	1661.8	1669.0
77.5°	1129.5	980.8	719.4	707.4	719.4	827.3	988.0	1146.2	1426.8	1441.2	1417.3
80°	731.4	695.4	568.3	544.4	549.2	666.7	880.0	1088.7	1146.2	1160.7	1107.8
82.5°	398.0	441.2	402.8	378.9	378.9	520.3	750.6	865.6	822.5	683.4	652.3
85°	170.2	206.2	208.7	182.2	175.0	321.3	503.6	472.4	438.8	419.7	414.9
87.5°	47.9	67.1	67.1	50.4	38.3	88.7	100.8	28.8	0.0	2.4	4.8
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)