

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: P651475

Luminaire Tested: **GALN-SA6D-840-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651475  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-840-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38799.5 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

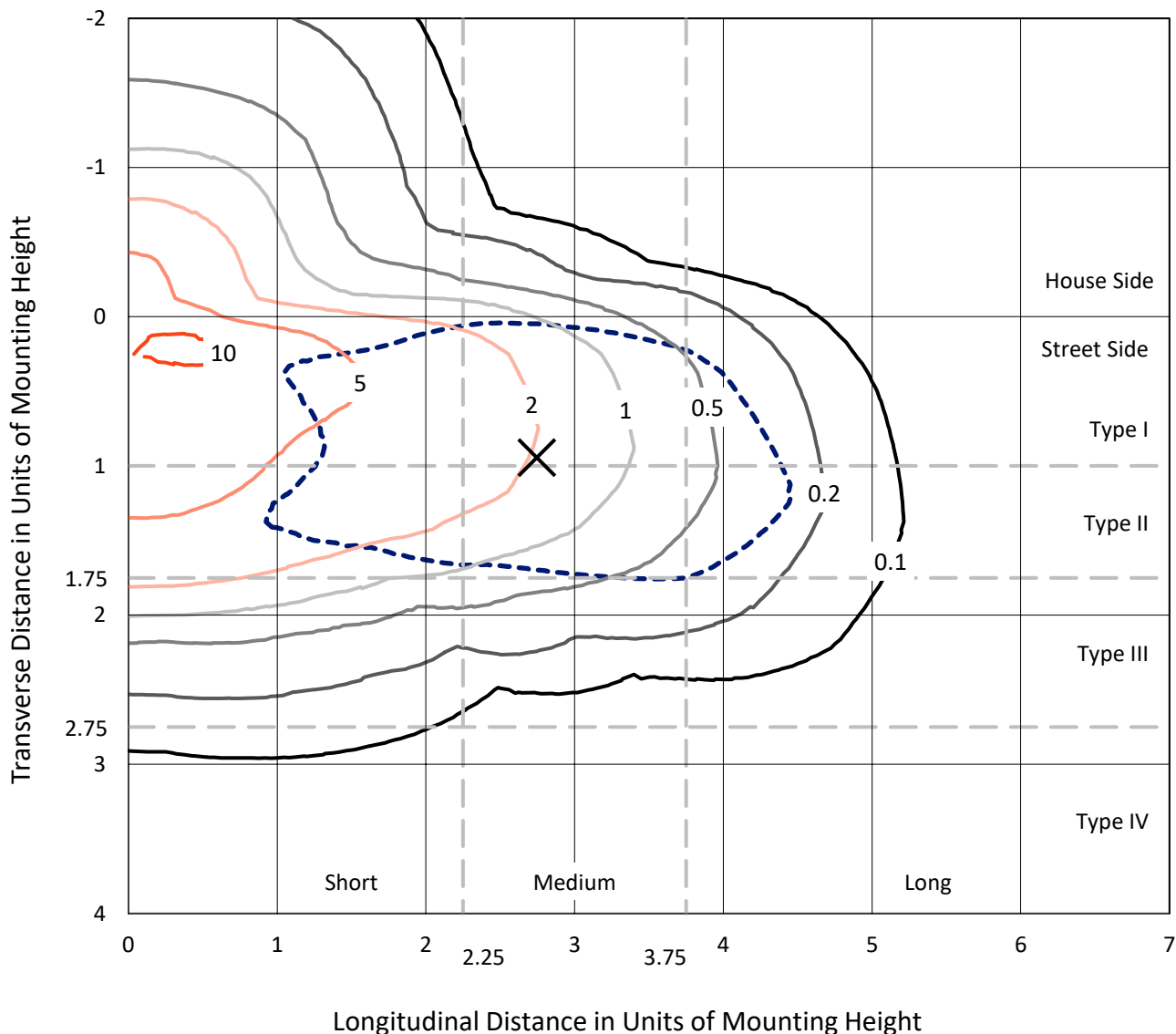
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

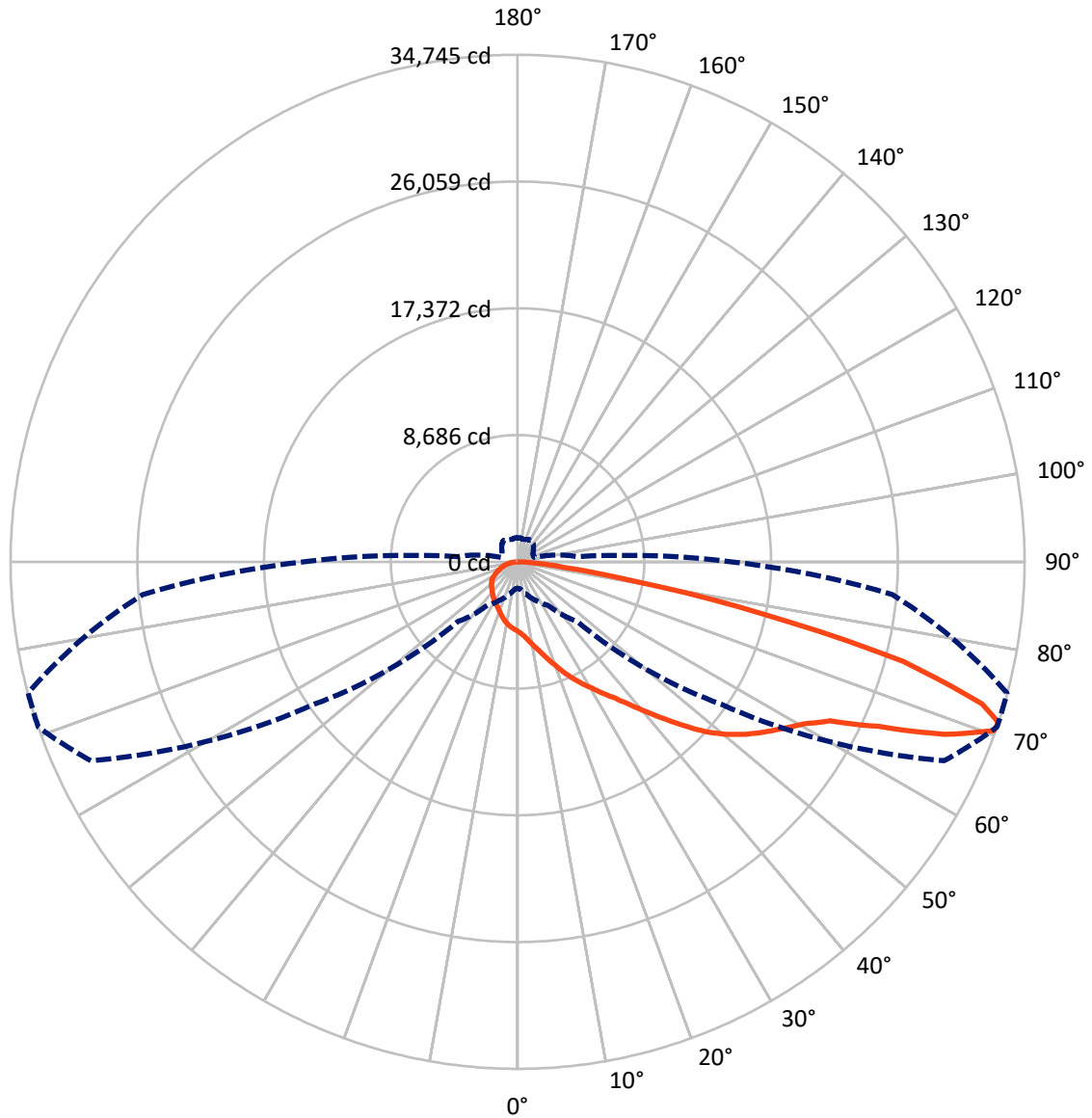
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6978.0	0.0	6978.0
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	31821.5	0.0	31821.5
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	38799.5	0.0	38799.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.1	1.2
10°-20°	1553.4	4.0
20°-30°	2714.7	7.0
30°-40°	4037.7	10.4
40°-50°	5949.1	15.3
50°-60°	8328.8	21.5
60°-70°	9315.5	24.0
70°-80°	5690.3	14.7
80°-90°	732.0	1.9
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°	38799.5	100.0
0°-180°	38799.5	100.0

**Coefficient of Utilization**

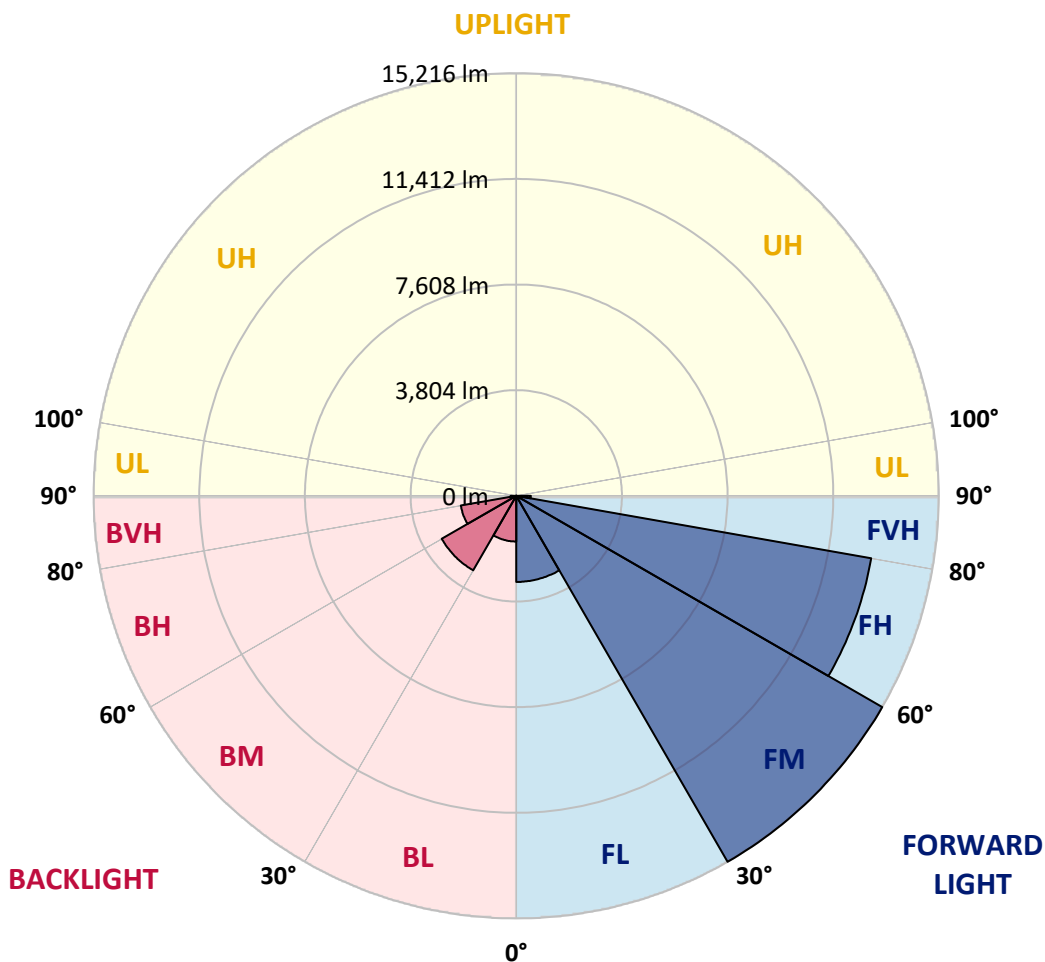


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3100.1	8.0			
FM (30°-60°)	15216.4	39.2			
FH (60°-80°)	12978.3	33.4			G5
FVH (80°-90°)	526.7	1.4			G4/750
BL (0°-30°)	1646.1	4.2	B3/2500		
BM (30°-60°)	3099.2	8.0	B3/5000		
BH (60°-80°)	2027.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	205.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4761.9	4761.9	4761.9	4761.9	4761.9	4761.9	4761.9	4761.9	4761.9	4761.9	4761.9
2.5°	5286.4	5260.9	5263.0	5226.7	5179.9	5128.7	5056.2	4992.2	4941.0	4911.2	4823.7
5°	5858.0	5832.4	5800.4	5721.5	5687.3	5561.5	5401.7	5256.6	5145.7	5083.8	4909.0
7.5°	6320.7	6314.3	6305.8	6261.0	6173.6	5998.8	5862.3	5610.6	5446.4	5329.2	5030.6
10°	6606.5	6617.2	6623.5	6632.0	6595.8	6504.1	6316.5	5998.8	5789.8	5640.5	5188.4
12.5°	6751.5	6762.1	6798.4	6877.4	6926.4	6915.7	6762.1	6450.8	6162.9	5966.7	5356.8
15°	6841.0	6858.1	6922.1	7026.6	7190.8	7295.3	7220.7	6932.8	6617.2	6384.7	5557.3
17.5°	6939.2	6958.3	7028.7	7178.0	7393.4	7619.5	7700.4	7453.1	7109.7	6832.5	5781.2
20°	6994.6	7020.2	7120.4	7316.6	7568.2	7896.7	8165.4	8035.3	7659.9	7352.9	6039.2
22.5°	7084.2	7105.5	7190.8	7399.8	7700.4	8112.0	8630.3	8602.5	8272.0	7875.3	6322.9
25°	7327.3	7361.4	7404.1	7529.9	7819.9	8331.7	9016.2	9208.1	8864.8	8421.3	6583.0
27.5°	7785.7	7813.5	7811.4	7828.4	7992.6	8521.5	9351.0	9807.4	9453.3	8973.6	6834.6
30°	8308.2	8318.9	8327.4	8289.1	8325.3	8715.5	9658.1	10400.2	10046.2	9540.8	7054.3
32.5°	8943.7	8965.1	8892.6	8794.4	8764.6	9003.4	9911.9	10993.0	10747.8	10116.6	7271.9
35°	9694.4	9749.8	9602.6	9430.0	9308.4	9417.1	10253.1	11598.7	11466.4	10852.3	7559.7
37.5°	10551.6	10619.9	10483.4	10144.3	9971.6	10001.4	10698.8	12347.2	12374.9	11690.4	7988.3
40°	11253.3	11342.8	11347.0	10867.2	10604.9	10639.1	11263.8	13153.2	13471.1	12726.8	8493.8
42.5°	11716.0	11803.4	11895.1	11613.6	11338.5	11532.5	11922.9	14027.6	14703.6	13985.0	9199.6
45°	12223.5	12302.4	12353.6	12225.6	12072.1	12575.4	12718.3	14957.4	16017.3	15390.3	9971.6
47.5°	12812.0	12899.5	12948.5	12827.0	12769.4	13490.2	13575.5	15825.3	17420.4	16755.1	10824.6
50°	13596.9	13663.0	13637.3	13560.6	13547.8	14191.8	14398.7	16637.8	18578.4	18224.4	11709.6
52.5°	14573.5	14652.4	14680.2	14571.4	14522.3	14692.9	15061.9	17377.8	19631.8	19486.8	12654.3
55°	15164.2	15290.1	15712.2	15882.9	16000.2	15341.2	15776.2	18194.5	20576.5	20817.5	13669.4
57.5°	14407.2	14569.2	15513.9	16367.0	17469.4	16962.0	16789.2	19047.5	21521.2	22107.6	14884.9
60°	12560.4	12596.7	13814.4	15386.0	17603.8	19045.4	18902.5	20403.8	22544.9	23408.5	16486.4
62.5°	8713.4	8790.2	10229.6	12737.4	15944.7	19796.0	22497.9	22745.3	24012.0	25355.5	18834.3
65°	4493.2	4393.0	5704.4	8005.4	12020.9	18013.2	25410.9	27050.8	27193.7	28400.7	22139.7
67.5°	2765.9	2810.6	3424.8	4674.4	7107.6	13091.4	25106.0	32311.6	31558.9	32139.0	25208.3
70°	2077.0	2132.5	2554.7	3198.7	4333.3	7485.1	20190.6	33586.9	34638.3	34489.0	26142.3
71°	1806.2	1863.8	2303.1	2910.9	3640.2	5776.9	17011.0	32251.9	34744.8	34719.3	25790.4
72.5°	1539.7	1575.9	1919.2	2465.1	3068.6	4049.6	12780.1	28925.3	33262.8	34113.7	24534.4
75°	1209.1	1236.9	1390.4	1880.9	2416.1	2486.5	6858.1	21685.4	27319.5	28940.2	20425.1
77.5°	985.2	1004.4	1083.3	1396.8	1863.8	1761.5	3597.5	14115.0	17115.4	18746.8	12031.6
80°	782.6	803.9	850.8	946.8	1396.8	1256.0	1716.6	7152.5	8267.7	8250.6	4802.4
82.5°	607.8	614.2	669.6	695.2	955.4	891.4	929.8	3028.2	3354.4	3465.3	1733.7
85°	383.8	403.0	592.8	533.1	571.5	522.4	458.5	1202.7	1482.1	1460.7	693.1
87.5°	117.3	123.7	200.5	226.1	253.7	228.2	168.5	354.0	432.9	469.1	172.7
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°	4761.9	4761.9	4761.9	4761.9	4761.9	4761.9	4761.9	4761.9	4761.9	4761.9	4761.9
2.5°	4789.6	4766.1	4682.9	4614.7	4550.7	4480.4	4420.7	4403.6	4388.7	4382.3	4380.2
5°	4834.4	4764.0	4599.8	4465.5	4358.8	4260.8	4198.9	4171.2	4143.4	4143.4	4152.0
7.5°	4898.3	4770.4	4516.7	4316.2	4181.9	4090.1	4045.4	4041.1	4047.5	4053.9	4056.1
10°	4968.7	4766.1	4395.1	4145.6	4026.2	3983.5	3985.7	4021.9	4056.1	4081.6	4085.9
12.5°	5037.0	4740.5	4252.2	3985.7	3908.9	3917.4	3977.1	4058.2	4124.3	4160.5	4162.6
15°	5113.7	4700.0	4079.4	3834.2	3808.6	3874.7	3985.7	4109.3	4209.5	4269.3	4275.6
17.5°	5177.7	4631.8	3898.2	3687.1	3719.1	3840.6	3994.2	4154.1	4275.6	4350.3	4363.1
20°	5250.2	4544.3	3710.6	3546.3	3638.1	3802.2	3977.1	4149.8	4275.6	4348.1	4365.2
22.5°	5307.8	4420.7	3531.4	3431.2	3565.5	3755.3	3919.6	4058.2	4160.5	4198.9	4224.5
25°	5331.3	4265.0	3363.0	3337.3	3508.0	3678.5	3789.5	3868.3	3900.3	3896.1	3906.8
27.5°	5318.5	4085.9	3217.9	3262.7	3435.5	3559.1	3614.6	3608.2	3550.6	3497.3	3522.9
30°	5265.2	3872.6	3096.4	3186.0	3341.6	3409.8	3401.3	3318.2	3209.4	3109.2	3115.6
32.5°	5169.2	3642.3	2983.4	3098.5	3209.4	3239.3	3181.7	3072.9	2917.3	2787.2	2768.0
35°	5088.1	3422.7	2883.1	2998.3	3077.2	3062.2	3006.8	2866.0	2725.3	2610.2	2591.0
37.5°	5075.4	3235.0	2787.2	2885.3	2930.0	2908.8	2840.5	2721.1	2669.9	2582.5	2571.8
40°	5143.6	3102.8	2689.1	2765.9	2787.2	2770.1	2695.5	2627.3	2674.1	2652.9	2652.9
42.5°	5329.2	3032.4	2601.6	2646.5	2663.5	2676.3	2623.0	2565.4	2623.0	2524.9	2492.9
45°	5623.4	3034.6	2522.7	2529.1	2580.4	2625.1	2588.9	2503.6	2473.7	2277.5	2239.2
47.5°	6056.3	3107.1	2458.7	2418.3	2510.0	2584.6	2533.4	2409.7	2277.5	2147.4	2123.9
50°	6561.7	3237.2	2401.2	2303.1	2416.1	2533.4	2495.0	2350.0	2213.5	2134.6	2119.7
52.5°	7122.6	3401.3	2330.8	2175.2	2301.0	2510.0	2503.6	2341.5	2153.8	2100.5	2087.7
55°	7815.6	3563.4	2243.4	2025.9	2198.6	2490.8	2480.1	2271.1	2141.0	2102.7	2098.4
57.5°	8621.7	3798.0	2117.6	1874.5	2081.3	2411.8	2388.4	2228.5	2098.4	2070.6	2068.5
60°	9920.4	4162.6	1938.4	1735.8	1961.9	2273.2	2303.1	2156.0	2030.2	2023.8	2021.6
62.5°	11628.5	4674.4	1752.9	1592.9	1823.3	2094.1	2179.5	2057.8	1957.6	1989.6	1993.9
65°	13987.1	5105.2	1561.0	1471.4	1669.7	1921.3	2062.1	1966.2	1876.6	1938.4	1938.4
67.5°	15524.6	5113.7	1386.1	1345.6	1514.1	1776.4	1938.4	1857.4	1772.1	1876.6	1880.9
70°	15204.8	4480.4	1241.1	1213.4	1362.7	1620.7	1801.9	1738.0	1639.9	1733.7	1699.6
71°	14688.7	4128.6	1183.5	1162.2	1303.0	1546.1	1738.0	1684.7	1586.5	1648.4	1629.3
72.5°	13865.6	3584.8	1089.7	1094.0	1213.4	1452.2	1648.4	1592.9	1494.9	1529.0	1522.6
75°	11720.3	3130.5	931.9	951.1	1042.8	1292.3	1469.3	1426.7	1326.4	1326.4	1320.0
77.5°	7327.3	2187.9	774.1	784.7	885.0	1106.8	1262.4	1226.2	1130.2	1098.3	1089.7
80°	2733.8	1130.2	605.6	618.4	680.3	872.2	1044.9	1010.8	912.7	876.5	842.3
82.5°	1034.3	567.3	445.7	435.0	501.2	665.3	818.9	778.3	701.6	614.2	588.5
85°	390.2	281.5	273.0	264.4	294.3	394.5	507.5	499.0	418.0	356.2	349.8
87.5°	102.3	91.7	106.6	78.9	83.2	74.6	76.8	32.0	14.9	6.4	4.3
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)