

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: P455581

Luminaire Tested: **GALN-SA6D-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41686 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

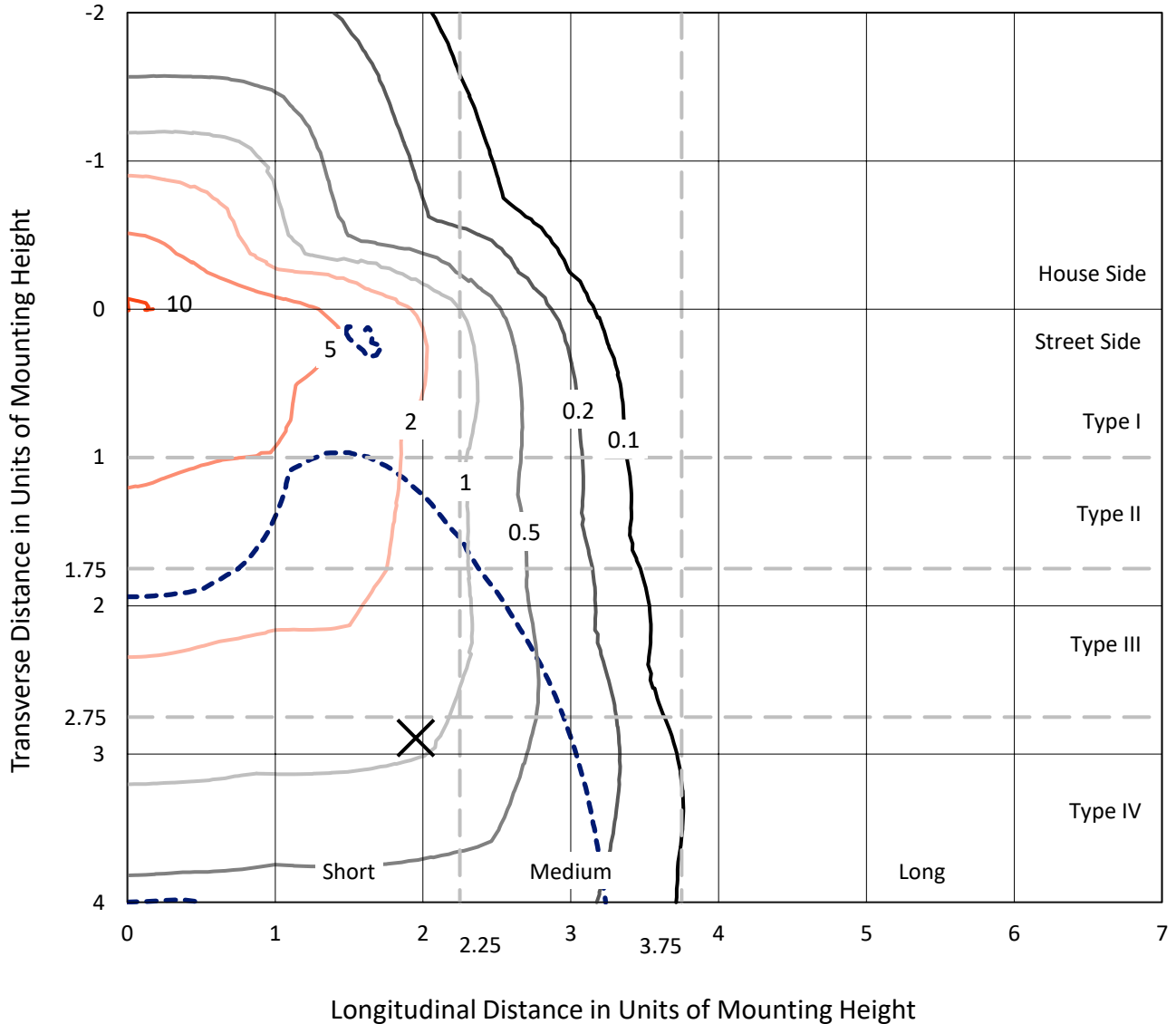
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

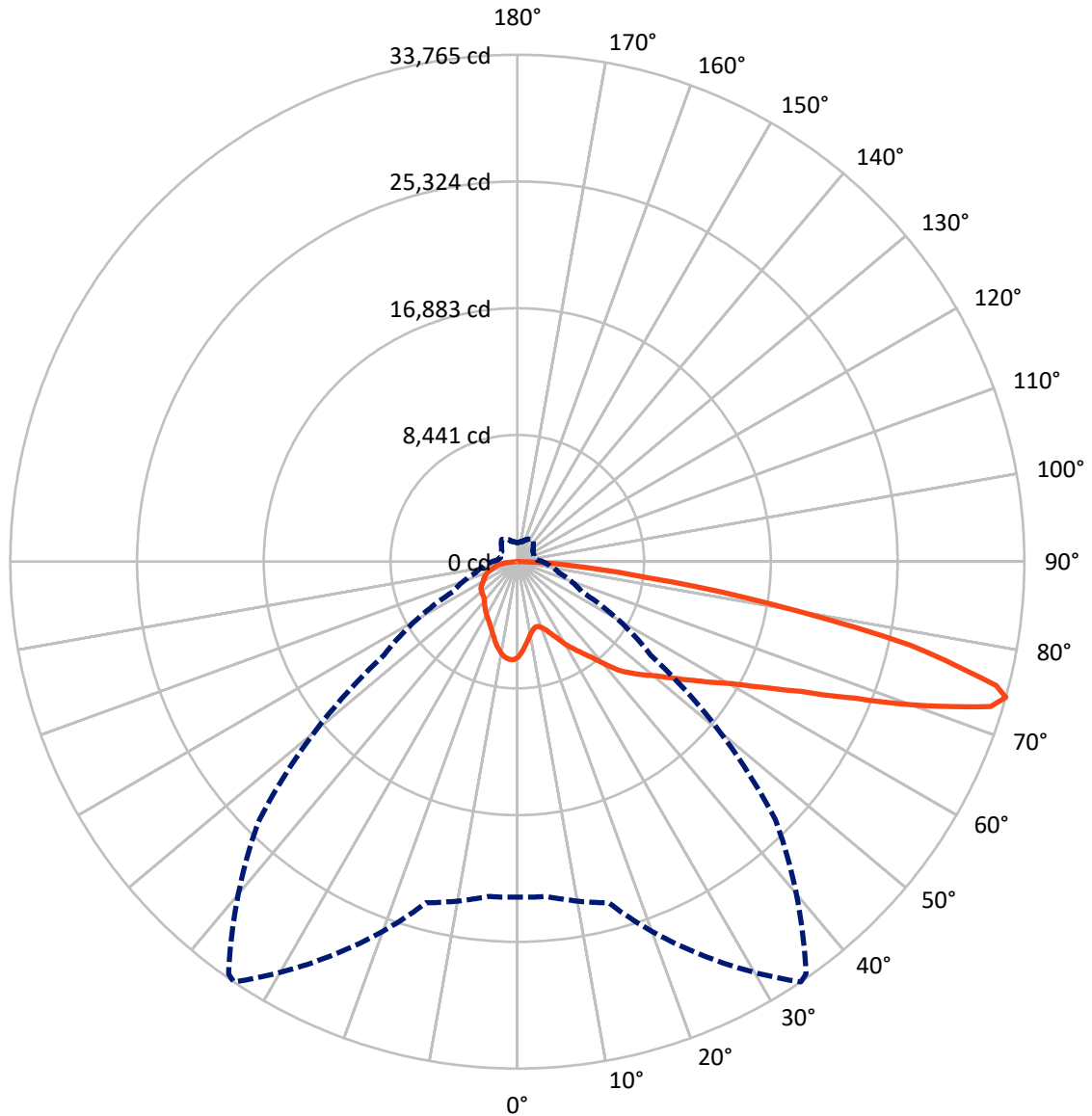
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8871.1	0.0	8871.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	32814.9	0.0	32814.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	41686.0	0.0	41686.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.8	1.4
10°-20°	1584.5	3.8
20°-30°	2612.5	6.3
30°-40°	3913.2	9.4
40°-50°	5688.8	13.6
50°-60°	7945.8	19.1
60°-70°	9947.8	23.9
70°-80°	8226.0	19.7
80°-90°	1188.6	2.9
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°	41686.0	100.0
0°-180°	41686.0	100.0

Coefficient of Utilization



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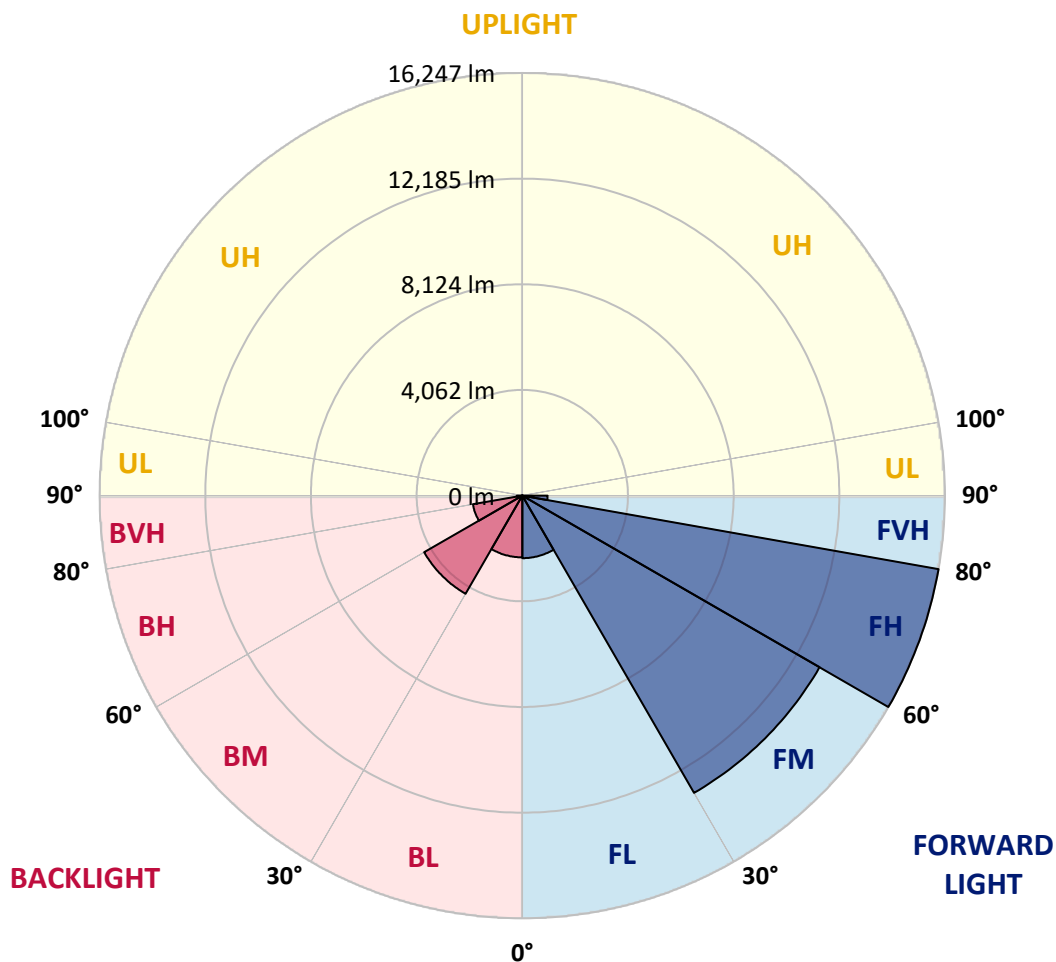
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2403.0	5.8			
FM (30°-60°)	13191.2	31.6			
FH (60°-80°)	16247.0	39.0			G5
FVH (80°-90°)	973.7	2.3			G5
BL (0°-30°)	2372.9	5.7	B3/2500		
BM (30°-60°)	4356.6	10.5	B3/5000		
BH (60°-80°)	1926.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	214.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6364.6	6364.6	6364.6	6364.6	6364.6	6364.6	6364.6	6364.6	6364.6	6364.6	6364.6
2.5°	5882.0	5912.0	5928.2	5985.9	5999.7	6018.2	6066.7	6131.4	6214.5	6288.4	6353.1
5°	5392.4	5438.6	5466.3	5517.1	5616.4	5625.6	5755.0	5902.8	6071.3	6228.4	6357.7
7.5°	4928.2	4979.0	5002.1	5094.5	5226.1	5246.9	5436.3	5669.5	5951.3	6189.1	6387.7
10°	4579.5	4604.9	4655.7	4725.0	4882.0	4895.9	5143.0	5454.7	5819.6	6170.6	6438.5
12.5°	4390.1	4404.0	4415.5	4489.4	4644.1	4664.9	4923.6	5276.9	5715.7	6184.5	6521.7
15°	4417.8	4422.4	4371.6	4385.5	4510.2	4540.2	4796.6	5159.1	5651.0	6219.1	6646.4
17.5°	4651.1	4634.9	4510.2	4445.5	4533.3	4547.2	4771.2	5112.9	5621.0	6283.8	6775.7
20°	5018.3	4995.2	4780.4	4637.2	4688.0	4699.6	4854.3	5147.6	5651.0	6390.0	6976.6
22.5°	5475.5	5466.3	5140.7	4967.5	4965.1	4965.1	5046.0	5272.3	5741.1	6535.5	7186.8
25°	6115.2	6066.7	5641.8	5417.8	5355.4	5350.8	5341.6	5477.8	5856.6	6690.2	7436.2
27.5°	6771.1	6687.9	6309.2	5965.1	5831.2	5815.0	5755.0	5768.8	6004.4	6865.8	7720.2
30°	7360.0	7306.9	6951.2	6570.2	6410.8	6373.9	6207.6	6131.4	6251.5	7182.1	8172.9
32.5°	7810.3	7778.0	7500.8	7154.4	6918.9	6911.9	6669.5	6607.1	6637.1	7565.5	8690.2
35°	8175.2	8186.7	8045.9	7745.6	7475.4	7436.2	7274.5	7196.0	7108.2	8119.8	9341.4
37.5°	8674.0	8699.4	8690.2	8431.5	8101.3	8110.5	8073.6	7944.2	7711.0	8738.7	10064.2
40°	9223.6	9242.1	9239.8	9140.5	8967.3	8976.5	8962.7	8814.9	8466.2	9526.2	10867.9
42.5°	9983.4	9895.7	9667.0	9766.3	9867.9	9911.8	10006.5	9865.6	9387.6	10366.8	11623.1
45°	10833.3	10667.0	10149.7	10195.9	10572.3	10655.4	11177.4	10983.4	10387.6	11332.1	12512.2
47.5°	11369.0	11205.1	10768.6	10759.4	11258.2	11339.0	12262.8	12191.2	11297.4	12373.6	13597.6
50°	11847.1	11824.0	11332.1	11449.9	11937.1	12057.2	13445.2	13378.2	12205.0	13602.2	14780.0
52.5°	12556.1	12369.0	11976.4	12218.9	12863.2	13020.2	14618.3	14422.0	13038.7	14687.6	15927.7
55°	12874.7	12830.9	12807.8	13017.9	13902.4	14015.6	15759.2	15308.8	13750.0	15606.7	16800.7
57.5°	13726.9	13646.1	13874.7	14017.9	15126.4	15299.6	16950.8	16234.9	14373.5	16336.5	17225.6
60°	14830.8	14786.9	14997.1	15255.7	16493.5	16756.8	18308.7	17024.7	14874.7	16703.7	16992.4
62.5°	16479.7	16475.1	16435.8	16990.0	18431.1	18673.6	19867.5	17793.7	14953.2	16428.9	15786.9
65°	18844.5	18761.3	18419.5	19024.6	20842.1	21126.1	21491.0	18223.3	14479.8	15017.8	13292.7
67.5°	21317.8	21313.2	21036.1	21821.3	24303.8	24597.1	23520.9	18128.6	13165.7	12165.8	9440.7
70°	23368.5	23269.2	23622.6	25714.9	28726.3	29065.7	25296.9	17013.1	10486.9	8034.3	5609.5
72.5°	23860.4	23865.0	24599.4	28717.0	32973.2	33026.3	25936.6	13789.3	7018.2	4431.7	2805.9
74°	22345.5	22384.7	23523.3	28867.1	33765.3	33525.1	24301.5	10837.9	4745.8	2893.6	2023.0
75°	20396.4	20149.3	21795.8	27867.2	32943.2	32684.5	22387.0	8697.1	3621.1	2311.7	1771.3
77.5°	10904.9	11156.6	13696.9	20795.9	26763.3	26465.4	15179.5	4170.7	1956.0	1609.6	1274.8
80°	3882.1	4281.6	6018.2	10881.8	17158.6	17251.0	7244.5	1912.2	1376.4	1187.0	900.7
82.5°	1584.2	1628.1	2584.2	4828.9	8713.3	8796.4	2958.3	1136.2	983.8	817.5	538.1
85°	618.9	637.4	1143.1	2170.8	3718.1	3960.6	1023.1	600.4	605.1	468.8	274.8
87.5°	207.8	235.6	468.8	722.8	1263.2	1237.8	297.9	177.8	217.1	203.2	85.4
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°	6364.6	6364.6	6364.6	6364.6	6364.6	6364.6	6364.6	6364.6	6364.6	6364.6	6364.6
2.5°	6385.4	6429.3	6459.3	6491.6	6521.7	6530.9	6524.0	6544.8	6547.1	6549.4	6551.7
5°	6422.4	6482.4	6540.1	6572.5	6586.3	6574.8	6535.5	6514.7	6496.3	6482.4	6487.0
7.5°	6473.2	6558.6	6611.7	6625.6	6588.6	6535.5	6438.5	6362.3	6313.8	6281.5	6279.2
10°	6551.7	6634.8	6678.7	6639.4	6537.8	6408.5	6256.1	6112.9	6004.4	5972.0	5969.7
12.5°	6651.0	6745.7	6743.4	6627.9	6450.1	6219.1	5972.0	5805.8	5658.0	5584.1	5614.1
15°	6780.3	6851.9	6784.9	6577.1	6295.3	5979.0	5674.1	5447.8	5281.5	5203.0	5207.6
17.5°	6930.4	6992.8	6815.0	6487.0	6078.3	5671.8	5318.5	5103.7	4972.1	4914.3	4909.7
20°	7117.5	7136.0	6815.0	6330.0	5798.8	5313.9	4976.7	4826.6	4752.7	4722.7	4731.9
22.5°	7318.4	7281.4	6778.0	6108.3	5431.6	4939.7	4713.4	4646.5	4609.5	4604.9	4609.5
25°	7544.7	7440.8	6701.8	5808.1	5048.3	4616.4	4484.8	4496.3	4503.3	4503.3	4519.4
27.5°	7821.8	7614.0	6574.8	5429.3	4600.3	4316.2	4279.3	4360.1	4397.0	4404.0	4415.5
30°	8186.7	7803.4	6364.6	4955.9	4219.2	4046.0	4110.7	4219.2	4260.8	4286.2	4281.6
32.5°	8620.9	8011.2	6080.6	4482.5	3912.1	3856.7	3935.2	4046.0	4092.2	4106.1	4087.6
35°	9131.3	8246.8	5706.5	4039.1	3644.2	3676.5	3768.9	3803.5	3845.1	3845.1	3854.3
37.5°	9680.9	8436.1	5249.2	3632.6	3436.3	3554.1	3621.1	3588.8	3570.3	3547.2	3558.7
40°	10239.8	8577.0	4655.7	3230.8	3228.5	3427.1	3445.6	3353.2	3279.3	3256.2	3244.7
42.5°	10727.0	8664.8	4119.9	2919.0	3032.2	3302.4	3316.3	3168.5	3050.7	2981.4	2958.3
45°	11302.1	8766.4	3595.7	2660.4	2849.8	3203.1	3237.7	3039.1	2865.9	2720.4	2683.5
47.5°	12089.6	8997.3	3182.3	2459.5	2718.1	3140.7	3189.2	2932.9	2704.3	2514.9	2484.9
50°	12978.7	9313.7	2861.3	2323.2	2616.5	3085.3	3145.4	2824.4	2554.2	2344.0	2320.9
52.5°	13793.9	9484.6	2584.2	2200.8	2517.2	2983.7	3087.6	2745.8	2406.4	2173.1	2152.3
55°	14239.6	9207.5	2311.7	2080.7	2381.0	2852.1	3006.8	2637.3	2263.2	2083.1	2053.0
57.5°	14299.6	8634.7	2064.6	1951.4	2237.8	2690.4	2856.7	2505.7	2170.8	2020.7	1995.3
60°	13835.4	7780.3	1872.9	1845.2	2092.3	2508.0	2688.1	2390.2	2076.1	1951.4	1926.0
62.5°	12680.8	6851.9	1739.0	1748.2	1944.5	2316.3	2563.4	2279.3	1986.1	1875.2	1852.1
65°	10694.7	5655.7	1609.6	1648.9	1812.9	2166.2	2450.2	2187.0	1896.0	1817.5	1796.7
67.5°	7429.2	4083.0	1503.4	1545.0	1688.2	2013.8	2318.6	2087.7	1794.4	1752.8	1720.5
70°	4113.0	2512.6	1378.7	1427.2	1558.8	1842.9	2170.8	1937.6	1646.6	1628.1	1581.9
72.5°	2161.6	1600.4	1237.8	1290.9	1383.3	1623.5	1944.5	1773.6	1501.1	1422.6	1362.5
74°	1688.2	1311.7	1143.1	1198.6	1260.9	1494.2	1810.5	1655.8	1397.2	1304.8	1258.6
75°	1471.1	1168.5	1062.3	1133.9	1189.3	1406.4	1706.6	1572.7	1339.4	1251.7	1210.1
77.5°	1039.2	875.3	868.3	953.8	983.8	1233.2	1538.0	1431.8	1193.9	1101.6	1062.3
80°	729.8	655.9	688.2	741.3	782.9	1090.0	1427.2	1237.8	979.2	870.6	856.8
82.5°	475.7	429.5	491.9	540.4	554.2	803.7	1152.4	939.9	713.6	579.7	538.1
85°	219.4	214.8	281.7	274.8	272.5	392.6	683.6	549.6	411.1	307.1	288.7
87.5°	55.4	53.1	69.3	57.7	69.3	60.0	62.4	16.2	2.3	0.0	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)