

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: P455573

Luminaire Tested: **GALN-SA6D-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455573
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-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42016 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

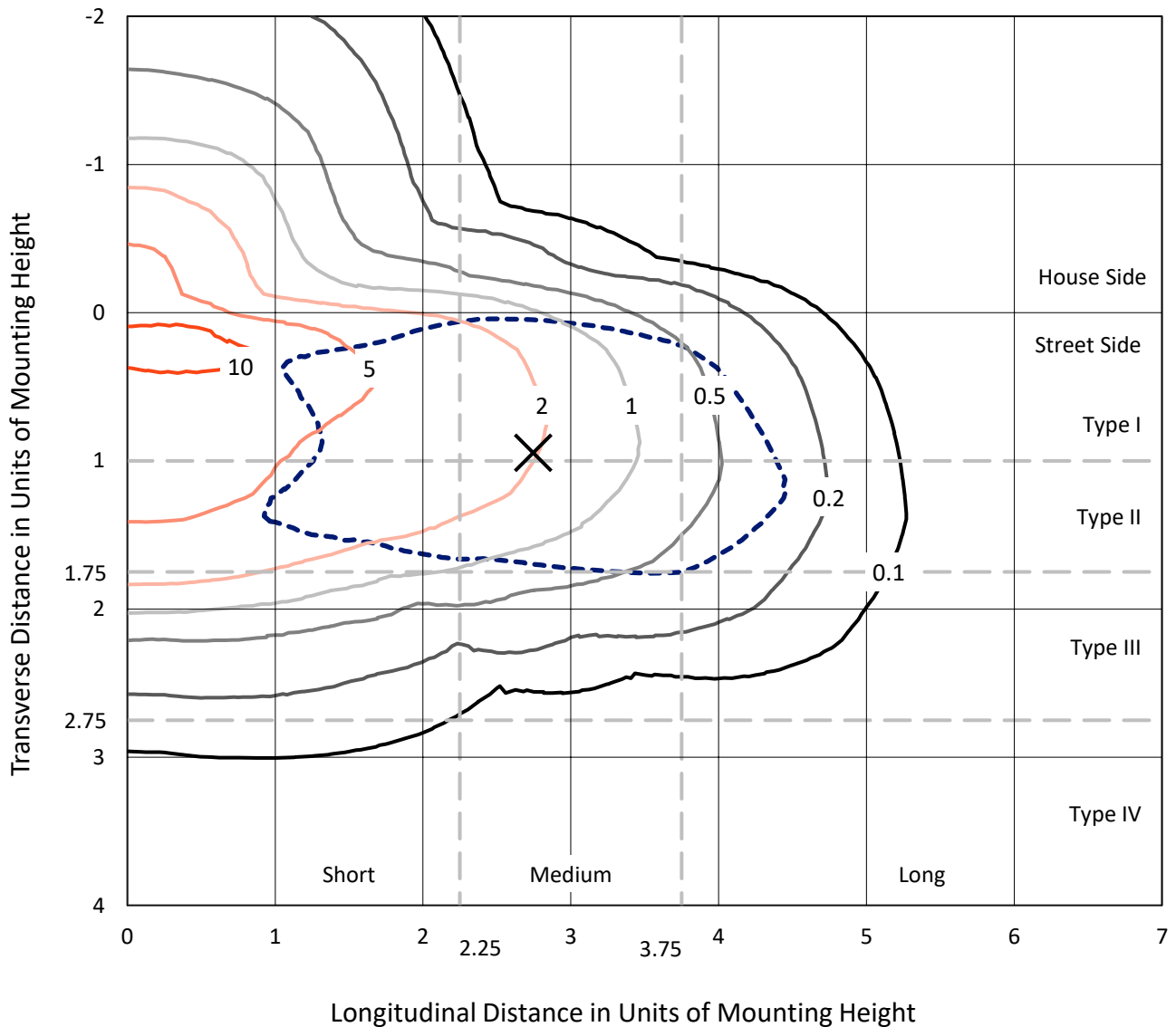
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

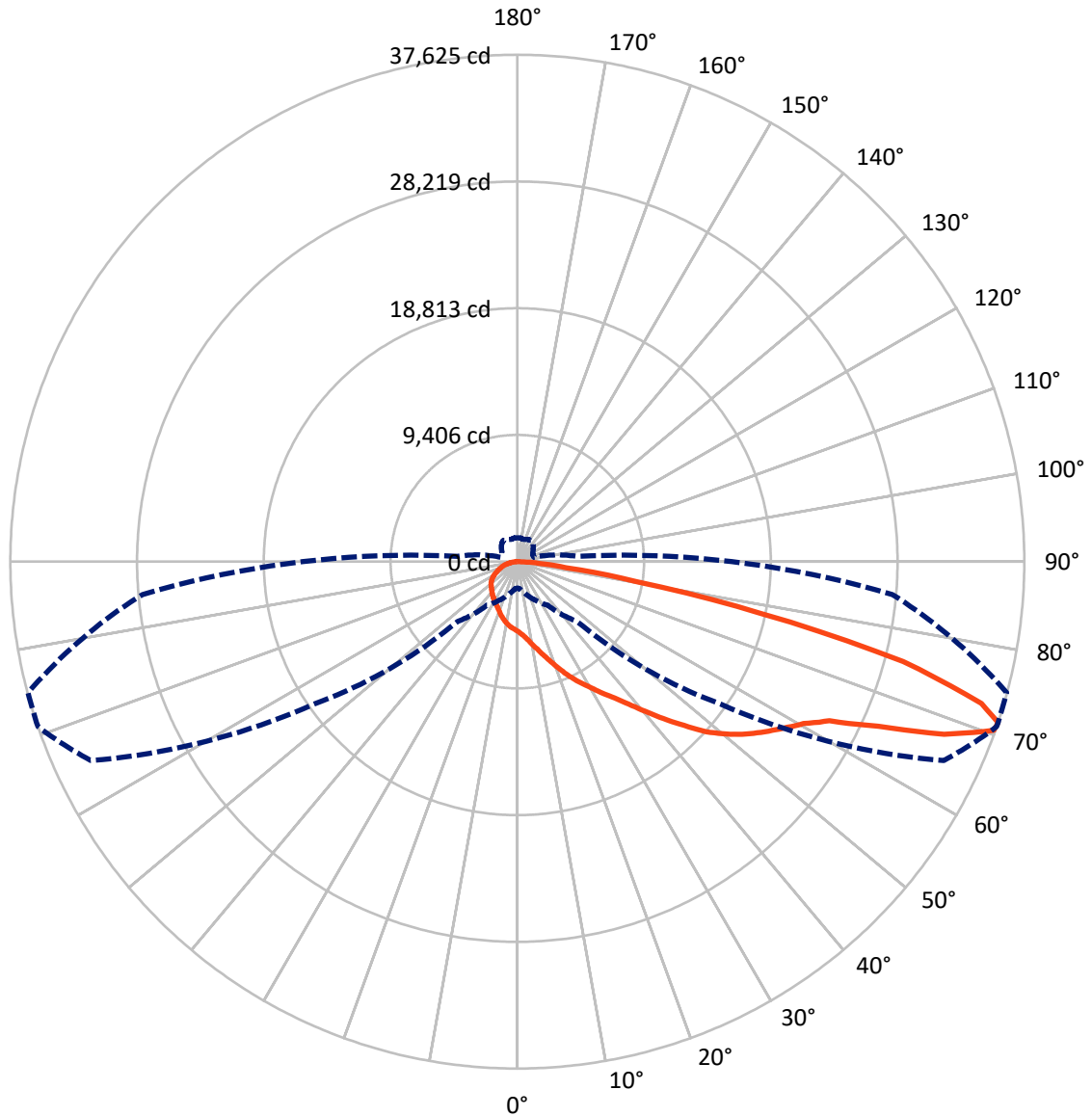
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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
House Side	Lumens	7556.5	0.0	7556.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	34459.5	0.0	34459.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	42016.0	0.0	42016.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.8	1.2
10°-20°	1682.2	4.0
20°-30°	2939.7	7.0
30°-40°	4372.5	10.4
40°-50°	6442.3	15.3
50°-60°	9019.3	21.5
60°-70°	10087.7	24.0
70°-80°	6162.0	14.7
80°-90°	792.7	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°	42016.0	100.0
0°-180°	42016.0	100.0

Coefficient of Utilization



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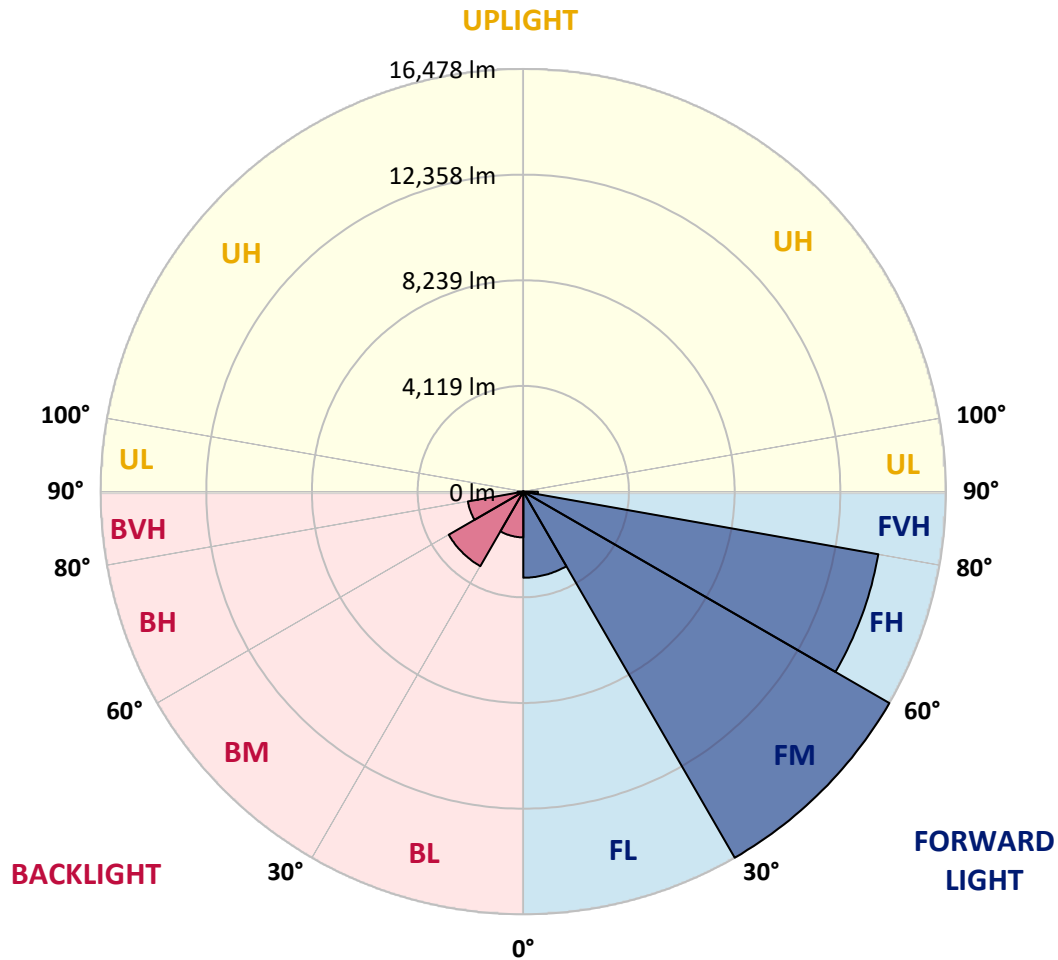
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3357.1	8.0			
FM	(30°-60°)	16477.9	39.2			
FH	(60°-80°)	14054.2	33.4			G5
FVH	(80°-90°)	570.4	1.4			G4/750
BL	(0°-30°)	1782.5	4.2	B3/2500		
BM	(30°-60°)	3356.1	8.0	B3/5000		
BH	(60°-80°)	2195.5	5.2	B3/2500		G3/2500
BVH	(80°-90°)	222.3	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°	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6
2.5°	5724.7	5697.0	5699.3	5660.1	5609.3	5553.8	5475.3	5406.0	5350.6	5318.3	5223.6
5°	6343.6	6315.9	6281.3	6195.8	6158.9	6022.6	5849.4	5692.4	5572.3	5505.3	5316.0
7.5°	6844.7	6837.8	6828.6	6780.1	6685.4	6496.0	6348.2	6075.7	5897.9	5770.9	5447.6
10°	7154.2	7165.7	7172.6	7181.9	7142.6	7043.3	6840.1	6496.0	6269.7	6108.1	5618.5
12.5°	7311.2	7322.7	7362.0	7447.4	7500.6	7489.0	7322.7	6985.6	6673.8	6461.4	5800.9
15°	7408.2	7426.7	7495.9	7609.1	7786.9	7900.1	7819.2	7507.5	7165.7	6914.0	6018.0
17.5°	7514.4	7535.2	7611.4	7773.1	8006.3	8251.1	8338.8	8071.0	7699.2	7399.0	6260.5
20°	7574.5	7602.2	7710.7	7923.2	8195.7	8551.3	8842.3	8701.4	8295.0	7962.4	6539.9
22.5°	7671.4	7694.5	7786.9	8013.2	8338.8	8784.5	9345.7	9315.7	8957.7	8528.2	6847.0
25°	7934.7	7971.7	8017.8	8154.1	8468.2	9022.4	9763.7	9971.5	9599.7	9119.4	7128.8
27.5°	8431.2	8461.2	8458.9	8477.4	8655.2	9227.9	10126.2	10620.4	10237.1	9717.5	7401.3
30°	8997.0	9008.5	9017.8	8976.2	9015.5	9438.1	10458.8	11262.4	10879.0	10331.7	7639.1
32.5°	9685.1	9708.2	9629.7	9523.5	9491.2	9749.8	10733.6	11904.4	11638.8	10955.3	7874.7
35°	10498.0	10558.1	10398.7	10211.7	10080.0	10197.8	11103.0	12560.2	12417.0	11752.0	8186.4
37.5°	11426.3	11500.2	11352.4	10985.3	10798.2	10830.6	11585.7	13370.8	13400.8	12659.5	8650.6
40°	12186.1	12283.1	12287.7	11768.1	11484.1	11521.0	12197.6	14243.7	14587.8	13781.8	9197.9
42.5°	12687.2	12781.9	12881.2	12576.4	12278.5	12488.6	12911.2	15190.5	15922.5	15144.3	9962.3
45°	13236.8	13322.3	13377.7	13239.1	13072.9	13617.9	13772.6	16197.3	17345.0	16666.1	10798.2
47.5°	13874.2	13968.9	14022.0	13890.4	13828.0	14608.5	14700.9	17137.2	18864.6	18144.1	11721.9
50°	14724.0	14795.6	14767.9	14684.7	14670.9	15368.3	15592.3	18017.0	20118.5	19735.2	12680.3
52.5°	15781.7	15867.1	15897.1	15779.3	15726.2	15911.0	16310.5	18818.4	21259.3	21102.3	13703.3
55°	16421.3	16557.6	17014.8	17199.6	17326.6	16613.0	17084.1	19702.8	22282.3	22543.2	14802.5
57.5°	15601.5	15777.0	16800.1	17723.8	18917.7	18368.1	18181.0	20626.5	23305.3	23940.4	16118.8
60°	13601.7	13641.0	14959.6	16661.5	19063.2	20624.2	20469.5	22095.2	24413.8	25349.0	17853.1
62.5°	9435.7	9518.9	11077.6	13793.4	17266.5	21437.1	24363.0	24630.8	26002.6	27457.4	20395.6
65°	4865.7	4757.1	6177.3	8669.1	13017.4	19506.5	27517.4	29293.3	29448.0	30755.1	23975.0
67.5°	2995.1	3043.6	3708.7	5062.0	7696.8	14176.7	27187.2	34990.3	34175.1	34803.2	27298.1
70°	2249.2	2309.3	2766.5	3463.9	4692.5	8105.6	21864.3	36371.3	37509.7	37348.1	28309.5
71°	1956.0	2018.3	2494.0	3152.2	3942.0	6255.9	18421.2	34925.6	37625.2	37597.5	27928.5
72.5°	1667.3	1706.6	2078.4	2669.5	3323.1	4385.3	13839.5	31323.2	36020.2	36941.6	26568.3
75°	1309.4	1339.4	1505.7	2036.8	2616.4	2692.6	7426.7	23483.1	29584.3	31339.3	22118.3
77.5°	1066.9	1087.7	1173.1	1512.6	2018.3	1907.5	3895.8	15285.2	18534.3	20300.9	13029.0
80°	847.5	870.6	921.4	1025.3	1512.6	1360.2	1859.0	7745.3	8953.1	8934.6	5200.5
82.5°	658.1	665.1	725.1	752.8	1034.6	965.3	1006.8	3279.2	3632.5	3752.6	1877.4
85°	415.7	436.5	642.0	577.3	618.9	565.8	496.5	1302.4	1605.0	1581.9	750.5
87.5°	127.0	133.9	217.1	244.8	274.8	247.1	182.4	383.3	468.8	508.0	187.1
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°	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6	5156.6
2.5°	5186.7	5161.3	5071.2	4997.3	4928.0	4851.8	4787.1	4768.7	4752.5	4745.6	4743.3
5°	5235.2	5158.9	4981.1	4835.6	4720.2	4614.0	4547.0	4517.0	4486.9	4486.9	4496.2
7.5°	5304.4	5165.9	4891.1	4674.0	4528.5	4429.2	4380.7	4376.1	4383.0	4390.0	4392.3
10°	5380.6	5161.3	4759.4	4489.3	4359.9	4313.7	4316.1	4355.3	4392.3	4420.0	4424.6
12.5°	5454.5	5133.5	4604.7	4316.1	4232.9	4242.2	4306.8	4394.6	4466.2	4505.4	4507.7
15°	5537.7	5089.7	4417.7	4152.1	4124.4	4196.0	4316.1	4450.0	4558.5	4623.2	4630.1
17.5°	5606.9	5015.8	4221.4	3992.8	4027.4	4159.0	4325.3	4498.5	4630.1	4710.9	4724.8
20°	5685.5	4921.1	4018.2	3840.3	3939.6	4117.5	4306.8	4493.9	4630.1	4708.6	4727.1
22.5°	5747.8	4787.1	3824.2	3715.6	3861.1	4066.7	4244.5	4394.6	4505.4	4547.0	4574.7
25°	5773.2	4618.6	3641.7	3614.0	3798.8	3983.5	4103.6	4189.0	4223.7	4219.1	4230.6
27.5°	5759.4	4424.6	3484.7	3533.2	3720.3	3854.2	3914.2	3907.3	3845.0	3787.2	3814.9
30°	5701.6	4193.7	3353.1	3450.1	3618.7	3692.5	3683.3	3593.2	3475.5	3366.9	3373.9
32.5°	5597.7	3944.3	3230.7	3355.4	3475.5	3507.8	3445.5	3327.7	3159.1	3018.2	2997.5
35°	5510.0	3706.4	3122.2	3246.9	3332.3	3316.1	3256.1	3103.7	2951.3	2826.6	2805.8
37.5°	5496.1	3503.2	3018.2	3124.5	3173.0	3149.9	3076.0	2946.6	2891.2	2796.5	2785.0
40°	5570.0	3360.0	2912.0	2995.1	3018.2	2999.8	2918.9	2845.0	2895.8	2872.8	2872.8
42.5°	5770.9	3283.8	2817.3	2865.8	2884.3	2898.2	2840.4	2778.1	2840.4	2734.2	2699.6
45°	6089.6	3286.1	2731.9	2738.8	2794.2	2842.7	2803.5	2711.1	2678.8	2466.3	2424.8
47.5°	6558.4	3364.6	2662.6	2618.7	2718.0	2798.9	2743.4	2609.5	2466.3	2325.5	2300.0
50°	7105.7	3505.5	2600.3	2494.0	2616.4	2743.4	2701.9	2544.8	2397.0	2311.6	2295.4
52.5°	7713.0	3683.3	2524.0	2355.5	2491.7	2718.0	2711.1	2535.6	2332.4	2274.6	2260.8
55°	8463.5	3858.8	2429.4	2193.8	2380.9	2697.2	2685.7	2459.4	2318.5	2277.0	2272.3
57.5°	9336.4	4112.8	2293.1	2029.9	2253.9	2611.8	2586.4	2413.2	2272.3	2242.3	2240.0
60°	10742.8	4507.7	2099.1	1879.8	2124.5	2461.7	2494.0	2334.7	2198.4	2191.5	2189.2
62.5°	12592.5	5062.0	1898.2	1725.0	1974.4	2267.7	2360.1	2228.5	2119.9	2154.6	2159.2
65°	15146.6	5528.4	1690.4	1593.4	1808.2	2080.7	2233.1	2129.2	2032.2	2099.1	2099.1
67.5°	16811.6	5537.7	1501.0	1457.2	1639.6	1923.6	2099.1	2011.4	1919.0	2032.2	2036.8
70°	16465.2	4851.8	1344.0	1314.0	1475.6	1755.1	1951.3	1882.1	1775.8	1877.4	1840.5
71°	15906.4	4470.8	1281.7	1258.6	1411.0	1674.2	1882.1	1824.3	1718.1	1785.1	1764.3
72.5°	15015.0	3881.9	1180.0	1184.7	1314.0	1572.6	1785.1	1725.0	1618.8	1655.8	1648.8
75°	12691.8	3390.0	1009.2	1029.9	1129.2	1399.4	1591.1	1544.9	1436.4	1436.4	1429.4
77.5°	7934.7	2369.3	838.3	849.8	958.4	1198.5	1367.1	1327.8	1223.9	1189.3	1180.0
80°	2960.5	1223.9	655.8	669.7	736.7	944.5	1131.6	1094.6	988.4	949.1	912.2
82.5°	1120.0	614.3	482.6	471.1	542.7	720.5	886.8	842.9	759.8	665.1	637.4
85°	422.6	304.8	295.6	286.4	318.7	427.2	549.6	540.4	452.6	385.7	378.7
87.5°	110.8	99.3	115.5	85.4	90.1	80.8	83.1	34.6	16.2	6.9	4.6
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)