

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: P457197

Luminaire Tested: **GALN-SA8C-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457197
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-SA8C-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51997 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

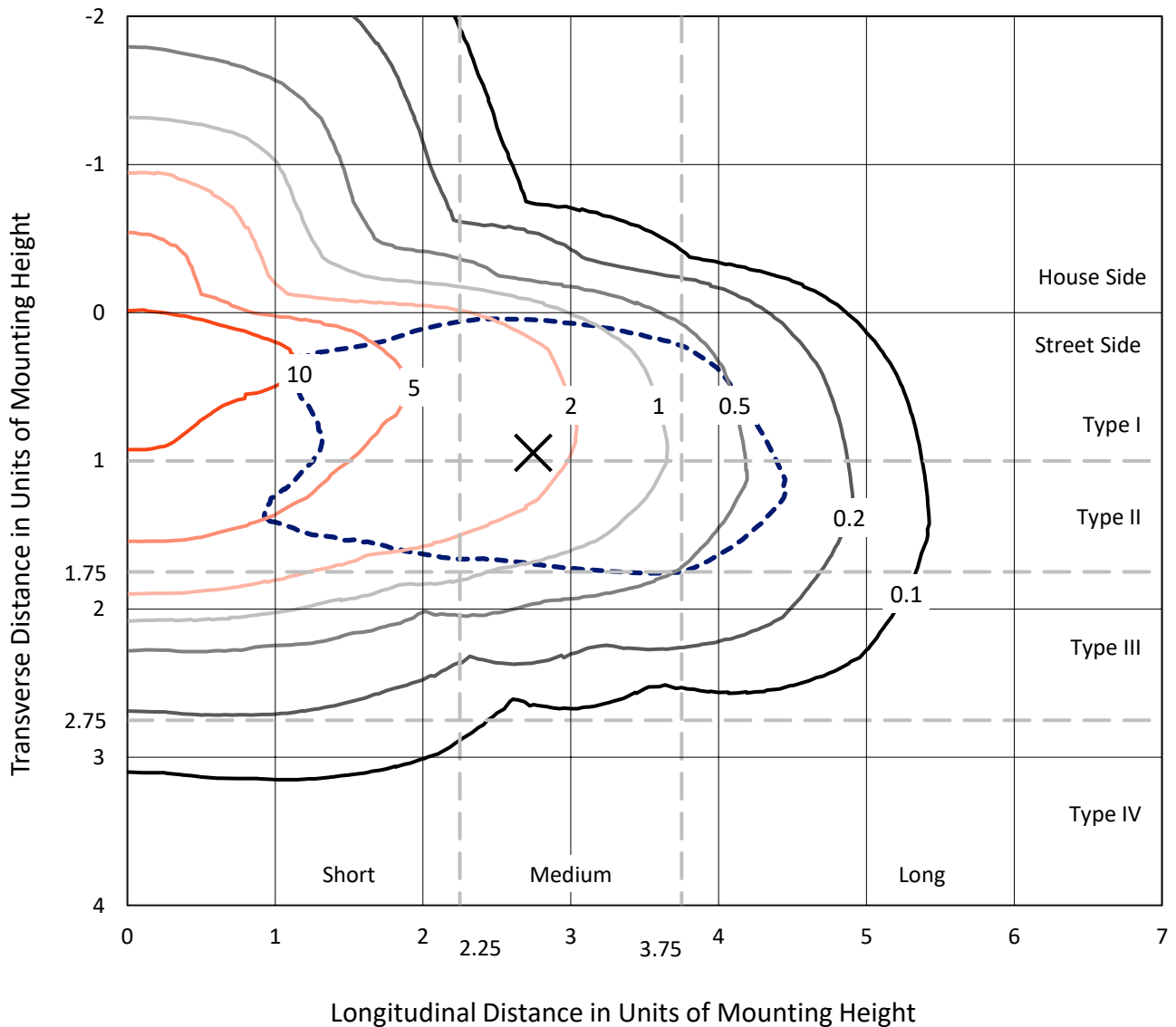
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

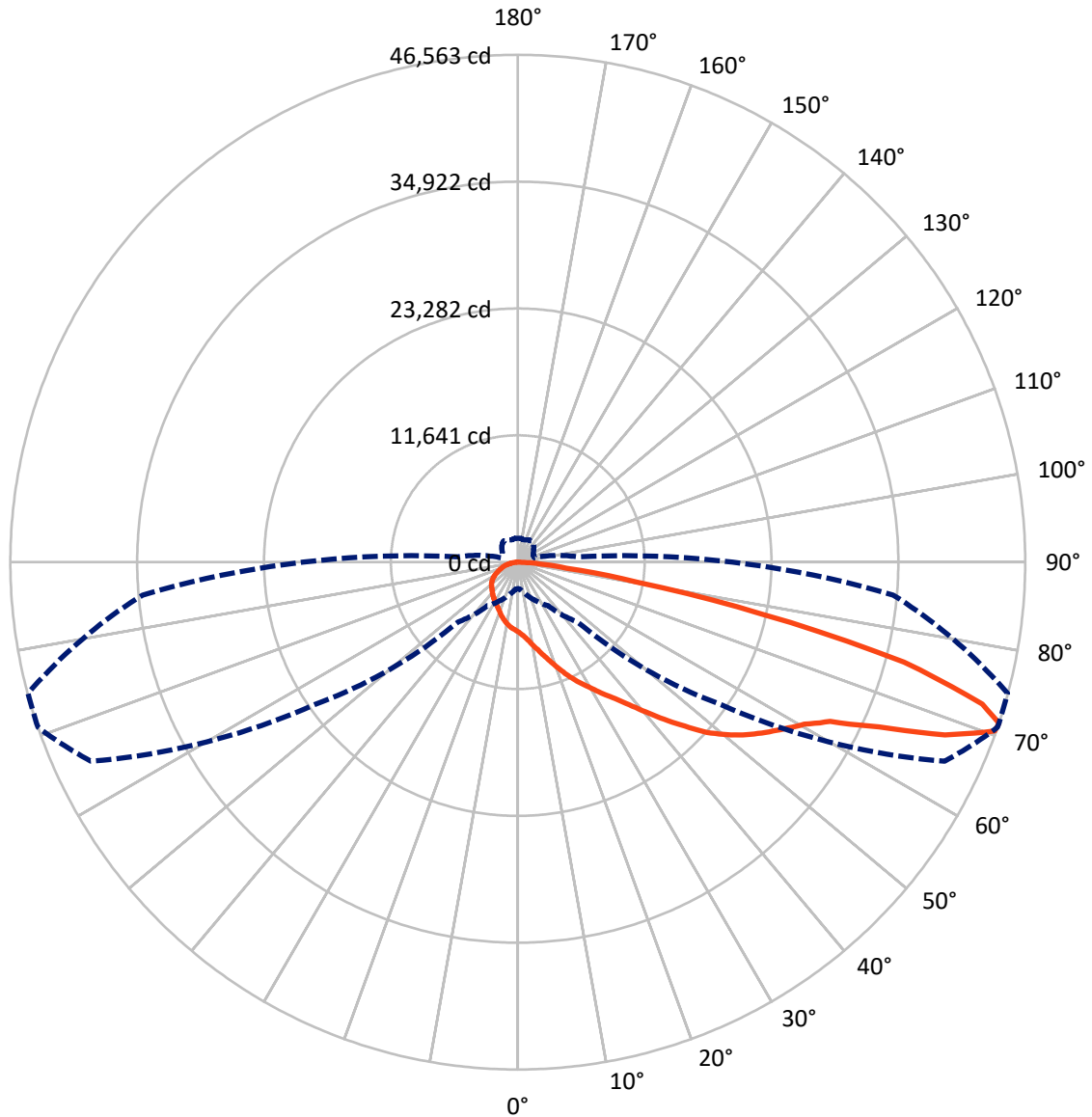
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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	9351.5	0.0	9351.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	42645.5	0.0	42645.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	51997.0	0.0	51997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.8	1.2
10°-20°	2081.8	4.0
20°-30°	3638.1	7.0
30°-40°	5411.2	10.4
40°-50°	7972.6	15.3
50°-60°	11161.8	21.5
60°-70°	12484.1	24.0
70°-80°	7625.8	14.7
80°-90°	981.0	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°	51997.0	100.0
0°-180°	51997.0	100.0

Coefficient of Utilization



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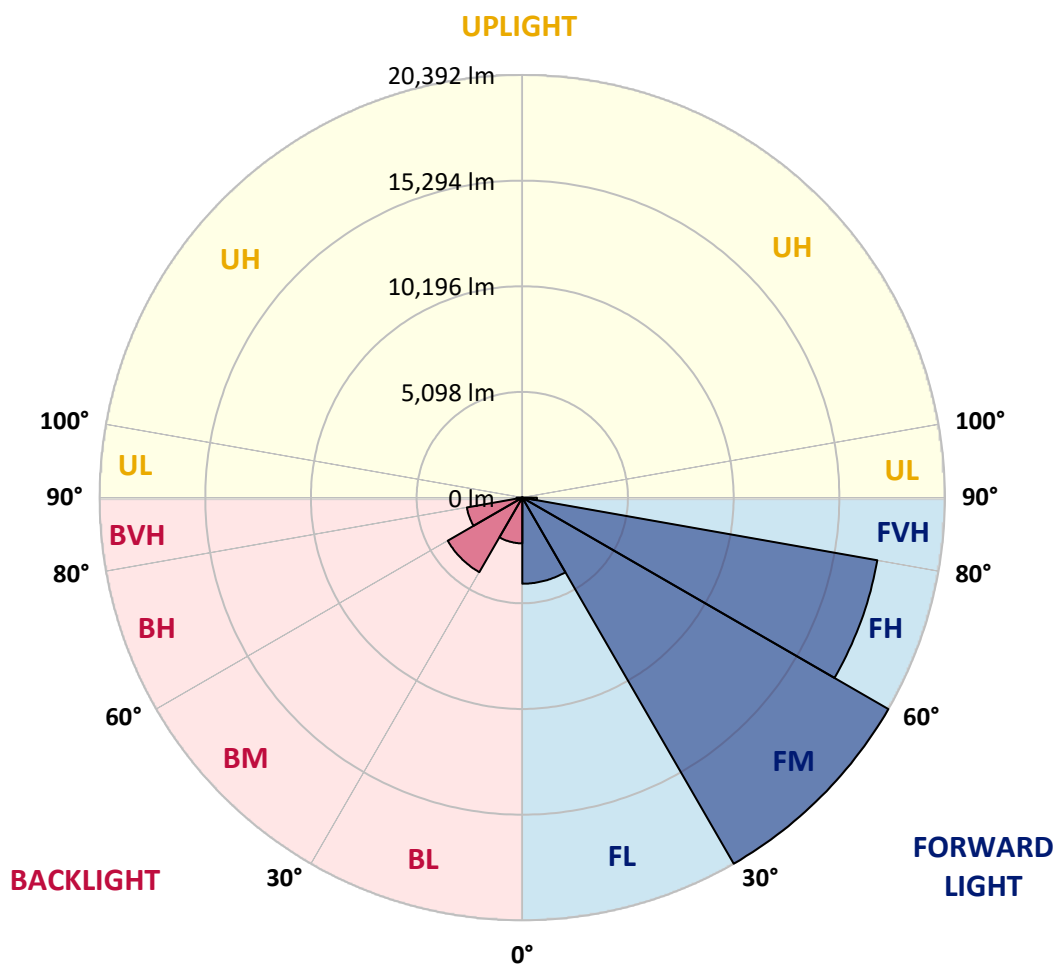
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4154.6	8.0			
FM (30°-60°)	20392.2	39.2			
FH (60°-80°)	17392.8	33.4			G5
FVH (80°-90°)	705.8	1.4			G4/750
BL (0°-30°)	2206.0	4.2	B3/2500		
BM (30°-60°)	4153.4	8.0	B3/5000		
BH (60°-80°)	2717.0	5.2	B4/5000		G4/5000
BVH (80°-90°)	275.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	6381.6	6381.6	6381.6	6381.6	6381.6	6381.6	6381.6	6381.6	6381.6	6381.6	6381.6
2.5°	7084.6	7050.3	7053.2	7004.6	6941.7	6873.2	6776.0	6690.3	6621.7	6581.7	6464.5
5°	7850.5	7816.3	7773.4	7667.6	7621.9	7453.3	7239.0	7044.6	6896.0	6813.1	6578.8
7.5°	8470.7	8462.1	8450.7	8390.7	8273.5	8039.2	7856.3	7519.0	7299.0	7141.8	6741.7
10°	8853.7	8867.9	8876.5	8888.0	8839.4	8716.5	8465.0	8039.2	7759.1	7559.0	6953.2
12.5°	9048.0	9062.3	9110.9	9216.6	9282.3	9268.0	9062.3	8645.0	8259.2	7996.3	7178.9
15°	9168.0	9190.9	9276.6	9416.7	9636.7	9776.7	9676.7	9290.9	8867.9	8556.4	7447.6
17.5°	9299.5	9325.2	9419.5	9619.6	9908.2	10211.1	10319.7	9988.2	9528.1	9156.6	7747.7
20°	9373.8	9408.1	9542.4	9805.3	10142.6	10582.7	10942.8	10768.4	10265.4	9853.9	8093.5
22.5°	9493.8	9522.4	9636.7	9916.8	10319.7	10871.3	11565.8	11528.6	11085.6	10554.1	8473.6
25°	9819.6	9865.3	9922.5	10091.1	10479.8	11165.7	12083.0	12340.2	11880.1	11285.7	8822.2
27.5°	10434.1	10471.2	10468.3	10491.2	10711.3	11420.0	12531.7	13143.3	12668.9	12025.9	9159.4
30°	11134.2	11148.5	11160.0	11108.5	11157.1	11680.1	12943.3	13937.8	13463.4	12786.1	9453.8
32.5°	11985.9	12014.5	11917.3	11785.8	11745.8	12065.9	13283.3	14732.3	14403.6	13557.7	9745.3
35°	12991.8	13066.1	12869.0	12637.5	12474.6	12620.3	13740.6	15543.9	15366.7	14543.7	10131.1
37.5°	14140.7	14232.2	14049.3	13594.9	13363.4	13403.4	14337.9	16547.0	16584.2	15666.8	10705.6
40°	15080.9	15201.0	15206.7	14563.7	14212.1	14257.9	15095.2	17627.3	18053.1	17055.7	11382.9
42.5°	15701.1	15818.3	15941.2	15563.9	15195.3	15455.3	15978.3	18799.0	19705.0	18741.9	12328.8
45°	16381.3	16487.0	16555.6	16384.1	16178.4	16852.8	17044.3	20045.0	21465.4	20625.2	13363.4
47.5°	17170.0	17287.2	17352.9	17190.0	17112.9	18078.8	18193.2	21208.2	23345.9	22454.2	14506.5
50°	18221.7	18310.3	18276.0	18173.1	18156.0	19019.1	19296.3	22297.0	24897.7	24423.3	15692.5
52.5°	19530.6	19636.4	19673.5	19527.8	19462.0	19690.7	20185.1	23288.7	26309.5	26115.1	16958.6
55°	20322.3	20490.9	21056.7	21285.4	21442.5	20559.5	21142.5	24383.3	27575.5	27898.4	18318.9
57.5°	19307.7	19524.9	20790.9	21934.1	23411.6	22731.4	22499.9	25526.4	28841.5	29627.5	19947.9
60°	16832.8	16881.4	18513.2	20619.5	23591.7	25523.6	25332.1	27344.0	30213.3	31370.8	22094.1
62.5°	11677.2	11780.1	13709.2	17070.0	21368.2	26529.5	30150.4	30482.0	32179.5	33980.0	25240.6
65°	6021.5	5887.2	7644.8	10728.4	16109.8	24140.4	34054.3	36252.0	36443.5	38061.0	29670.3
67.5°	3706.6	3766.7	4589.7	6264.4	9525.3	17544.4	33645.6	43302.3	42293.5	43070.8	33782.8
70°	2783.6	2857.9	3423.7	4286.8	5807.2	10031.1	27058.2	45011.3	46420.3	46220.2	35034.5
71°	2420.6	2497.8	3086.5	3901.0	4878.4	7741.9	22797.2	43222.3	46563.1	46528.9	34563.0
72.5°	2063.4	2112.0	2572.1	3303.7	4112.5	5427.1	17127.2	38764.0	44576.9	45717.2	32879.7
75°	1620.4	1657.6	1863.3	2520.6	3238.0	3332.3	9190.9	29061.6	36612.1	38784.0	27372.6
77.5°	1320.3	1346.1	1451.8	1871.9	2497.8	2360.6	4821.2	18916.2	22937.2	25123.5	16124.1
80°	1048.8	1077.4	1140.3	1268.9	1871.9	1683.3	2300.6	9585.3	11079.9	11057.1	6435.9
82.5°	814.5	823.1	897.4	931.7	1280.3	1194.6	1246.0	4058.2	4495.4	4644.0	2323.4
85°	514.4	540.1	794.5	714.5	765.9	700.2	614.4	1611.8	1986.2	1957.6	928.8
87.5°	157.2	165.8	268.6	302.9	340.1	305.8	225.8	474.4	580.1	628.7	231.5
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°	6381.6	6381.6	6381.6	6381.6	6381.6	6381.6	6381.6	6381.6	6381.6	6381.6	6381.6
2.5°	6418.8	6387.3	6275.9	6184.4	6098.7	6004.4	5924.3	5901.5	5881.5	5872.9	5870.0
5°	6478.8	6384.5	6164.4	5984.4	5841.5	5710.0	5627.1	5590.0	5552.8	5552.8	5564.3
7.5°	6564.5	6393.0	6053.0	5784.3	5604.3	5481.4	5421.4	5415.6	5424.2	5432.8	5435.7
10°	6658.8	6387.3	5890.1	5555.7	5395.6	5338.5	5341.3	5389.9	5435.7	5469.9	5475.7
12.5°	6750.3	6353.0	5698.6	5341.3	5238.5	5249.9	5329.9	5438.5	5527.1	5575.7	5578.5
15°	6853.2	6298.7	5467.1	5138.4	5104.1	5192.7	5341.3	5507.1	5641.4	5721.4	5730.0
17.5°	6938.9	6207.3	5224.2	4941.2	4984.1	5147.0	5352.8	5567.1	5730.0	5830.0	5847.2
20°	7036.1	6090.1	4972.7	4752.6	4875.5	5095.6	5329.9	5561.4	5730.0	5827.2	5850.0
22.5°	7113.2	5924.3	4732.6	4598.3	4778.3	5032.7	5252.8	5438.5	5575.7	5627.1	5661.4
25°	7144.7	5715.7	4506.8	4472.6	4701.2	4929.8	5078.4	5184.2	5227.0	5221.3	5235.6
27.5°	7127.5	5475.7	4312.5	4372.5	4604.0	4769.8	4844.1	4835.5	4758.3	4686.9	4721.2
30°	7056.1	5189.9	4149.6	4269.6	4478.3	4569.7	4558.3	4446.8	4301.1	4166.8	4175.3
32.5°	6927.5	4881.2	3998.1	4152.5	4301.1	4341.1	4263.9	4118.2	3909.6	3735.2	3709.5
35°	6818.9	4586.9	3863.8	4018.2	4123.9	4103.9	4029.6	3841.0	3652.3	3498.0	3472.3
37.5°	6801.7	4335.4	3735.2	3866.7	3926.7	3898.1	3806.7	3646.6	3578.0	3460.9	3446.6
40°	6893.2	4158.2	3603.8	3706.6	3735.2	3712.4	3612.3	3520.9	3583.8	3555.2	3555.2
42.5°	7141.8	4063.9	3486.6	3546.6	3569.5	3586.6	3515.2	3438.0	3515.2	3383.7	3340.8
45°	7536.2	4066.7	3380.9	3389.4	3458.0	3518.0	3469.4	3355.1	3315.1	3052.2	3000.8
47.5°	8116.3	4163.9	3295.1	3240.8	3363.7	3463.7	3395.1	3229.4	3052.2	2877.9	2846.4
50°	8793.6	4338.2	3218.0	3086.5	3238.0	3395.1	3343.7	3149.4	2966.5	2860.7	2840.7
52.5°	9545.3	4558.3	3123.6	2915.0	3083.6	3363.7	3355.1	3137.9	2886.4	2815.0	2797.8
55°	10474.1	4775.5	3006.5	2715.0	2946.5	3338.0	3323.7	3043.6	2869.3	2817.9	2812.1
57.5°	11554.3	5089.9	2837.9	2512.1	2789.3	3232.2	3200.8	2986.5	2812.1	2775.0	2772.1
60°	13294.8	5578.5	2597.8	2326.3	2629.2	3046.5	3086.5	2889.3	2720.7	2712.1	2709.3
62.5°	15583.9	6264.4	2349.2	2134.8	2443.5	2806.4	2920.7	2757.8	2623.5	2666.4	2672.1
65°	18744.7	6841.7	2092.0	1971.9	2237.7	2574.9	2763.6	2634.9	2514.9	2597.8	2597.8
67.5°	20805.2	6853.2	1857.6	1803.3	2029.1	2380.6	2597.8	2489.2	2374.9	2514.9	2520.6
70°	20376.6	6004.4	1663.3	1626.1	1826.2	2172.0	2414.9	2329.2	2197.7	2323.4	2277.7
71°	19685.0	5532.8	1586.1	1557.5	1746.2	2072.0	2329.2	2257.7	2126.2	2209.1	2183.4
72.5°	18581.8	4804.1	1460.4	1466.1	1626.1	1946.2	2209.1	2134.8	2003.4	2049.1	2040.5
75°	15706.8	4195.3	1248.9	1274.6	1397.5	1731.9	1969.1	1911.9	1777.6	1777.6	1769.0
77.5°	9819.6	2932.2	1037.4	1051.7	1186.0	1483.2	1691.9	1643.3	1514.7	1471.8	1460.4
80°	3663.8	1514.7	811.6	828.8	911.7	1168.9	1400.4	1354.6	1223.2	1174.6	1128.9
82.5°	1386.1	760.2	597.3	583.0	671.6	891.7	1097.4	1043.1	940.2	823.1	788.8
85°	523.0	377.2	365.8	354.4	394.4	528.7	680.2	668.7	560.1	477.3	468.7
87.5°	137.2	122.9	142.9	105.7	111.5	100.0	102.9	42.9	20.0	8.6	5.7
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)