

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: P529650

Luminaire Tested: **GALN-SA4D-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26715 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

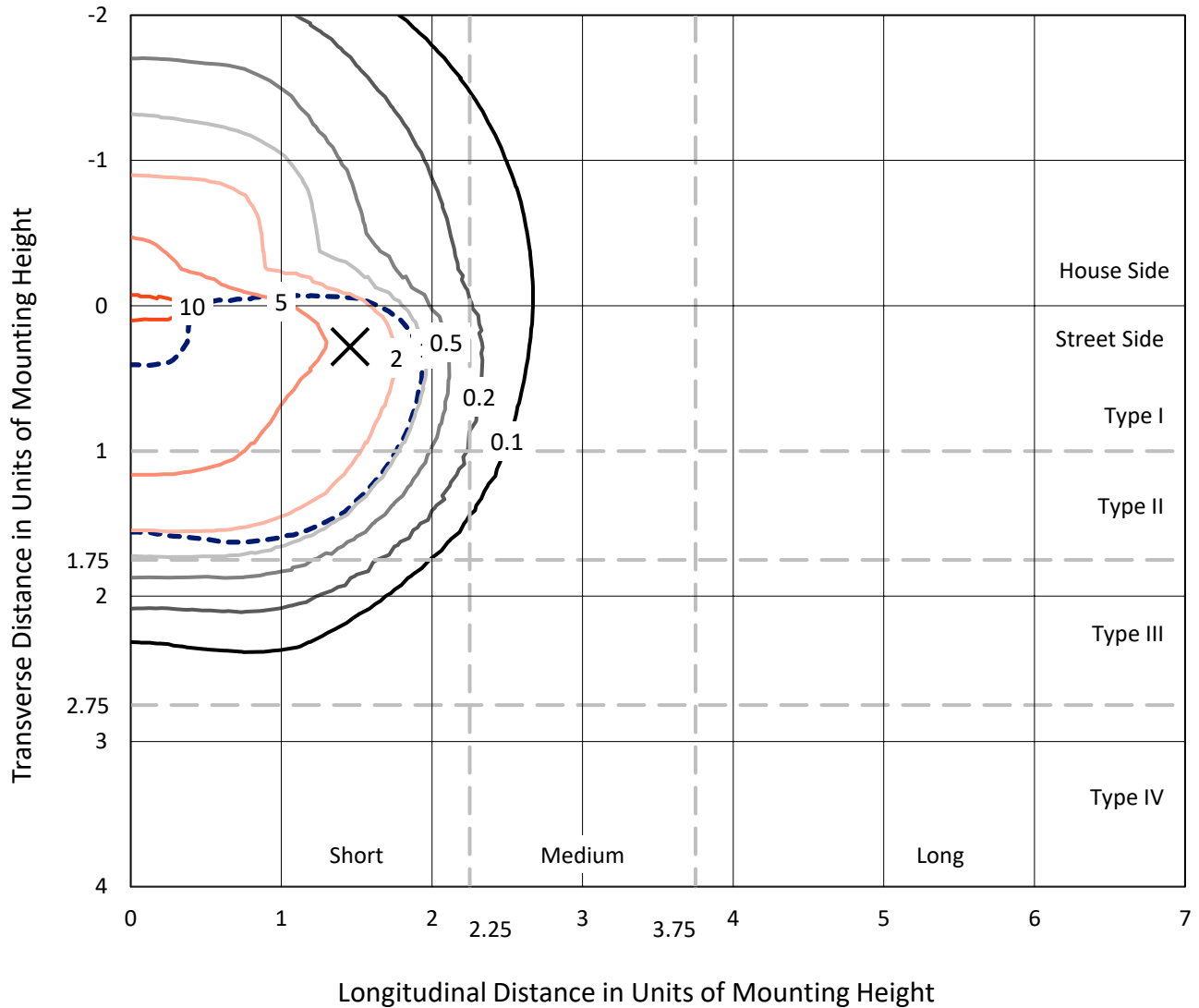
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

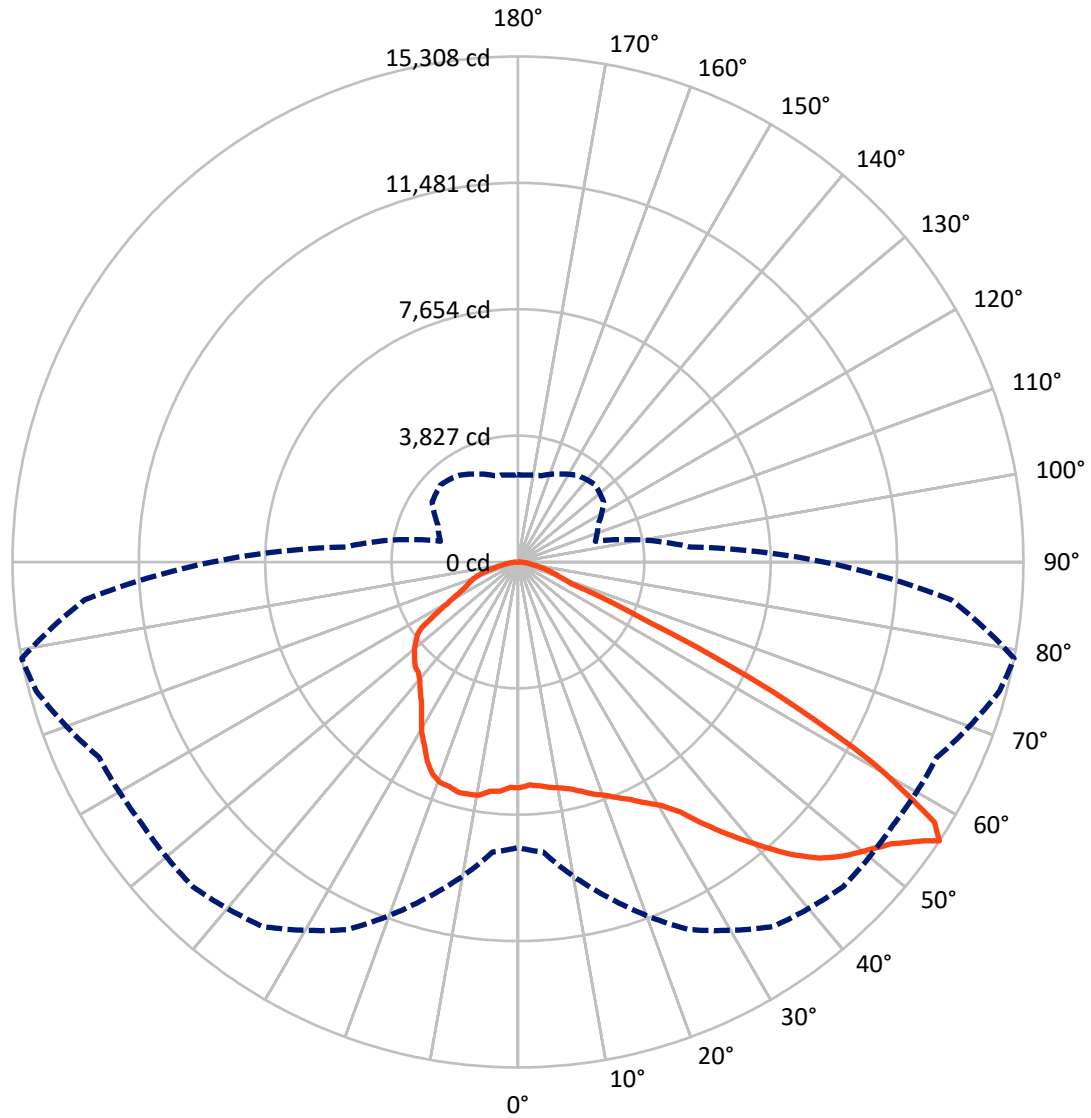
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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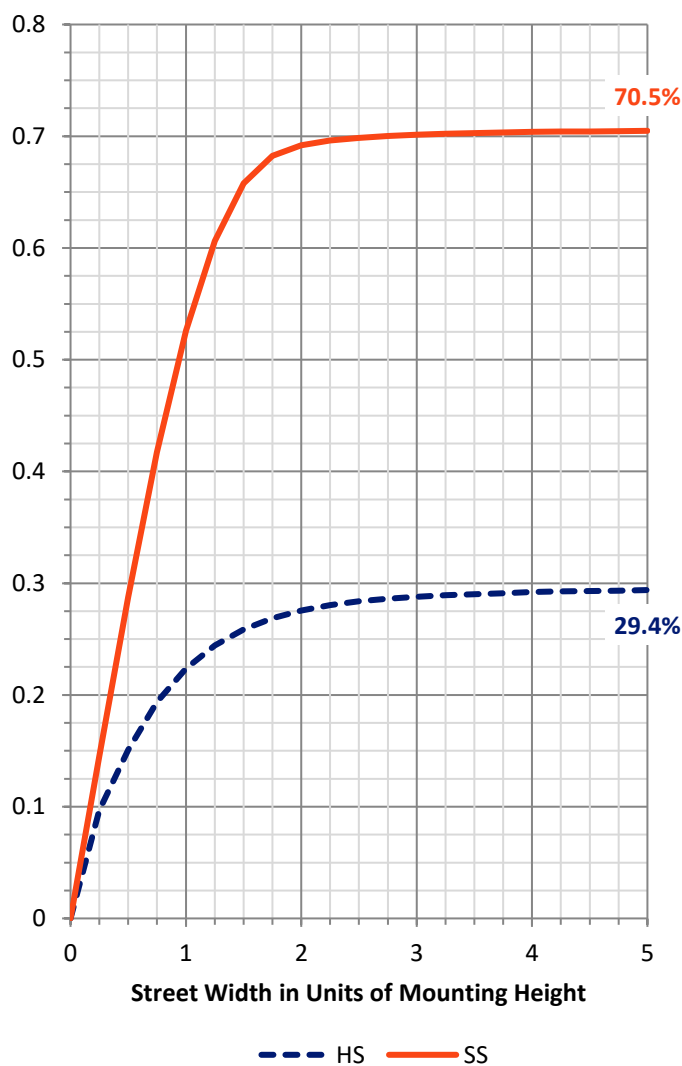
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7889.5	0.0	7889.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	18825.5	0.0	18825.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	26715.0	0.0	26715.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.5	2.3
10°-20°	1700.8	6.4
20°-30°	2909.7	10.9
30°-40°	4459.4	16.7
40°-50°	6026.9	22.6
50°-60°	6922.1	25.9
60°-70°	3155.3	11.8
70°-80°	777.9	2.9
80°-90°	141.4	0.5
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°	26715.0	100.0
0°-180°	26715.0	100.0

Coefficient of Utilization



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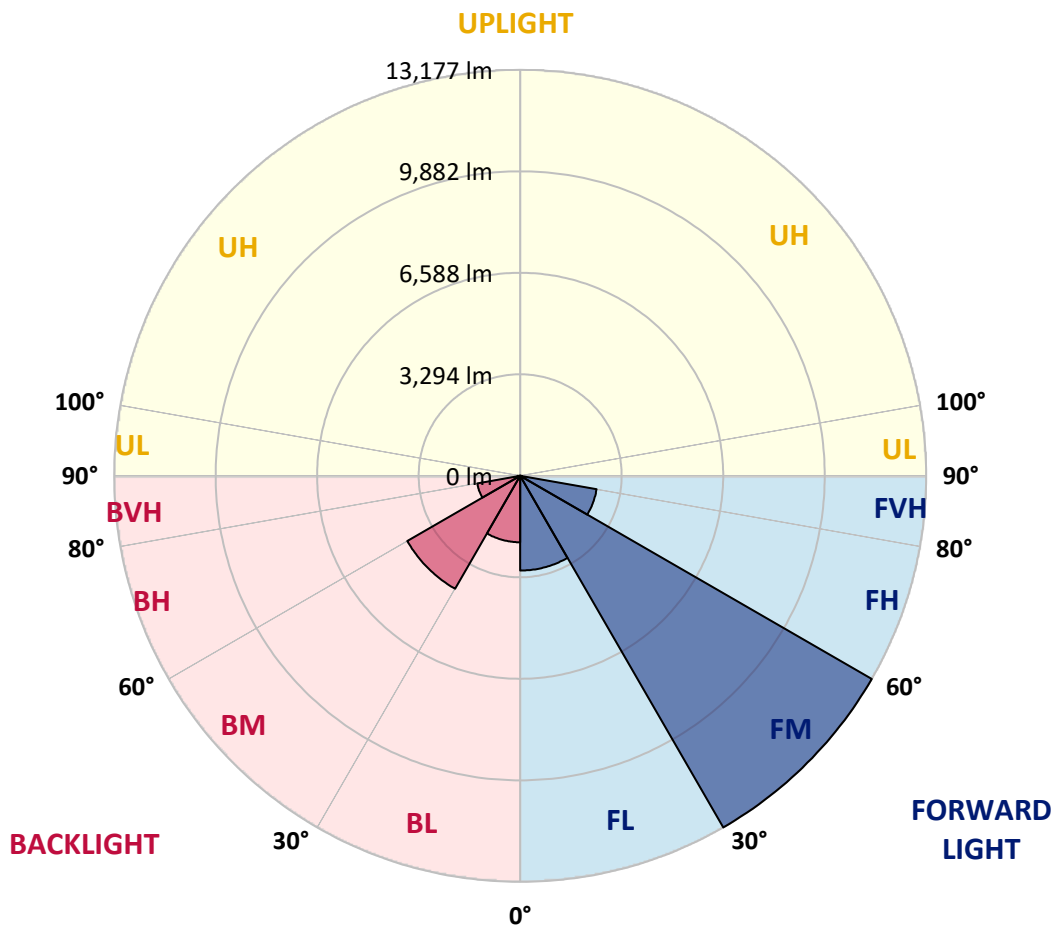
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3073.8	11.5			
FM (30°-60°)	13176.6	49.3			
FH (60°-80°)	2518.6	9.4			G2/5000
FVH (80°-90°)	56.5	0.2			G1/100
BL (0°-30°)	2158.1	8.1	B3/2500		
BM (30°-60°)	4231.8	15.8	B3/5000		
BH (60°-80°)	1414.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	84.9	0.3			G1/100
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°	65°	75°	79°	85°
0°	6835.3	6835.3	6835.3	6835.3	6835.3	6835.3	6835.3	6835.3	6835.3	6835.3	6835.3
2.5°	6502.5	6485.9	6525.8	6555.8	6592.4	6639.0	6662.3	6675.6	6792.0	6762.1	6851.9
5°	6362.8	6319.5	6349.5	6372.7	6436.0	6492.5	6555.8	6655.6	6762.1	6808.7	6918.5
7.5°	6239.6	6216.3	6209.7	6226.3	6312.8	6386.1	6495.9	6642.3	6815.3	6891.9	6955.1
10°	6036.6	6003.4	6053.3	6163.1	6186.4	6339.5	6465.9	6675.6	6825.3	6958.4	7144.8
12.5°	5946.8	5913.5	5923.5	5986.7	6149.8	6296.2	6446.0	6682.2	6998.4	7051.6	7301.2
15°	6089.9	6056.6	6066.6	6049.9	6206.4	6282.9	6519.2	6815.3	7118.2	7208.0	7474.2
17.5°	6416.0	6419.3	6376.1	6339.5	6302.9	6465.9	6629.0	6895.2	7164.8	7391.1	7590.7
20°	7038.3	6928.5	6842.0	6635.6	6579.1	6649.0	6855.3	7111.5	7354.4	7540.8	7767.1
22.5°	7517.5	7527.5	7404.4	7064.9	6941.8	6971.8	7148.1	7357.8	7624.0	7757.1	8016.7
25°	8213.0	8143.1	8010.0	7740.5	7464.3	7487.6	7617.3	7807.0	7880.2	7973.4	8256.3
27.5°	8848.6	8868.6	8605.7	8352.8	8010.0	7943.5	8176.4	8209.7	8086.6	8262.9	8359.4
30°	9494.2	9477.6	9304.5	9008.4	8672.3	8685.6	8788.7	8625.7	8456.0	8552.5	8619.0
32.5°	10163.1	9973.4	9966.8	9700.6	9444.3	9321.2	9194.7	9274.6	9011.7	9031.7	8968.4
35°	10698.9	10725.5	10572.4	10382.8	10256.3	10040.0	9693.9	9837.0	9787.1	9763.8	9490.9
37.5°	11088.2	10985.1	11061.6	10998.4	10878.6	10609.0	10249.6	10386.1	10409.4	10522.5	10206.4
40°	11407.7	11364.5	11567.4	11600.7	11517.5	10935.2	10289.6	10695.6	11045.0	11291.2	10915.2
42.5°	11560.8	11654.0	11867.0	12123.2	11936.8	11314.5	10495.9	10931.8	11710.5	12099.9	11587.4
45°	11767.1	11647.3	11963.5	12432.7	12436.0	11634.0	10695.6	11251.3	12229.7	12795.4	12046.7
47.5°	11557.5	11617.4	11943.5	12539.2	12692.2	11970.1	11234.7	11703.9	12802.1	13304.6	12472.6
50°	11088.2	11208.0	11803.7	12422.7	12885.3	12326.2	11853.6	12193.1	13331.2	13713.9	12542.5
52.5°	10599.1	10665.6	11597.4	12512.5	12971.8	12785.4	12682.3	12868.6	13976.8	14176.4	12629.0
55°	9267.9	9584.1	10915.2	12472.6	13394.4	13614.0	13534.2	13807.1	14708.9	14908.6	13101.6
56°	8652.3	8818.7	10505.9	12286.3	13477.6	13916.9	13876.9	14000.1	15098.2	15307.9	13174.8
57.5°	7514.2	7527.5	8958.4	11461.0	13164.8	14006.7	13966.8	14063.3	15021.7	14878.6	12532.5
60°	4702.2	4908.5	6096.5	8815.4	11194.7	12995.1	13221.4	12446.0	12665.6	12362.8	9750.5
62.5°	2436.0	2406.0	3194.7	5154.8	7431.0	9304.5	9514.2	9477.6	9138.2	8695.6	6369.4
65°	1214.6	1221.3	1670.6	2552.4	3807.0	4871.9	5457.6	5520.8	4619.0	4249.6	3021.6
67.5°	881.9	915.1	1201.3	1560.7	1793.7	2006.7	2459.2	2412.7	1827.0	1737.1	1610.7
70°	685.5	715.5	975.0	1191.4	1081.5	1081.5	1178.0	1218.0	1301.2	1337.8	1381.0
72.5°	499.2	522.5	745.4	822.0	708.8	762.1	881.9	975.0	1061.6	1074.9	1124.8
75°	342.8	362.7	489.2	452.6	426.0	525.8	645.6	732.1	795.3	828.6	858.6
77.5°	223.0	229.6	279.5	236.3	272.9	339.4	419.3	492.5	555.7	582.4	589.0
80°	99.8	109.8	119.8	149.8	189.7	242.9	299.5	359.4	399.3	409.3	429.3
82.5°	56.6	56.6	73.2	106.5	139.8	176.4	216.3	259.6	306.2	316.1	312.8
85°	30.0	30.0	43.3	63.2	86.5	103.2	99.8	103.2	109.8	126.5	123.1
87.5°	10.0	10.0	13.3	13.3	16.6	20.0	16.6	23.3	30.0	30.0	30.0
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°	6835.3	6835.3	6835.3	6835.3	6835.3	6835.3	6835.3	6835.3	6835.3	6835.3	6835.3
2.5°	6825.3	6855.3	6815.3	6901.9	6901.9	6885.2	6802.0	6828.7	6848.6	6848.6	6865.3
5°	6955.1	6945.1	6971.8	6868.6	6805.4	6782.1	6645.6	6579.1	6522.5	6519.2	6469.3
7.5°	7028.3	7001.7	6991.7	6915.2	6635.6	6465.9	6173.1	6003.4	5966.8	5837.0	5886.9
10°	7144.8	7194.7	7144.8	6728.8	6339.5	5950.1	5663.9	5401.0	5297.9	5214.7	5164.8
12.5°	7384.4	7361.1	7071.6	6509.2	5963.4	5500.9	5074.9	4798.7	4695.5	4622.3	4615.7
15°	7587.4	7470.9	7028.3	6163.1	5377.7	4885.2	4535.8	4339.5	4292.9	4299.5	4329.5
17.5°	7657.3	7577.4	6802.0	5803.7	4941.8	4362.8	4199.7	4169.7	4213.0	4262.9	4276.2
20°	7767.1	7640.6	6708.9	5314.5	4402.7	4036.6	4026.6	4133.1	4213.0	4286.2	4296.2
22.5°	7996.7	7677.2	6406.0	4851.9	4033.3	3940.1	4036.6	4126.5	4249.6	4309.5	4256.3
25°	8063.3	7597.4	5980.1	4296.2	3800.4	3880.2	3983.4	4106.5	4193.0	4226.3	4249.6
27.5°	8119.8	7474.2	5404.4	3926.8	3727.1	3876.9	3983.4	4086.5	4133.1	4163.1	4189.7
30°	8279.6	7437.6	4905.2	3680.6	3680.6	3810.3	3946.8	3973.4	4036.6	4073.2	4119.8
32.5°	8359.4	7184.7	4392.7	3524.1	3634.0	3843.6	3853.6	3903.5	3906.8	3936.8	3886.9
35°	8569.1	7005.0	3916.8	3411.0	3653.9	3810.3	3860.3	3830.3	3667.2	3587.4	3604.0
37.5°	8722.2	6915.2	3574.1	3397.7	3657.3	3846.9	3873.6	3647.3	3477.6	3344.4	3377.7
40°	9134.8	6692.2	3314.5	3374.4	3687.2	3886.9	3813.7	3567.4	3261.2	3124.8	3101.5
42.5°	9451.0	6532.5	3151.4	3347.8	3710.5	3943.4	3783.7	3407.7	3094.9	2968.4	3001.7
45°	9817.0	6495.9	3064.9	3354.4	3750.4	3973.4	3747.1	3284.5	2951.8	2901.8	2891.9
47.5°	9946.8	6233.0	2971.7	3297.9	3740.5	3963.4	3624.0	3191.4	2898.5	2905.2	2931.8
50°	9730.5	5963.4	2901.8	3181.4	3673.9	3873.6	3431.0	3068.2	2868.6	2951.8	2998.4
52.5°	9454.3	5687.2	2758.7	3025.0	3537.5	3733.8	3341.1	3061.6	2838.6	2812.0	2822.0
55°	9537.5	5460.9	2559.1	2812.0	3317.8	3474.2	3241.3	2998.4	2765.4	2665.6	2698.8
56°	9267.9	5228.0	2429.3	2678.9	3168.1	3307.8	3191.4	2941.8	2705.5	2638.9	2638.9
57.5°	8505.9	4445.9	2259.6	2465.9	2851.9	3018.3	3094.9	2908.5	2638.9	2522.5	2525.8
60°	6272.9	3161.4	2026.6	2173.1	2362.7	2495.9	2851.9	2815.3	2472.6	2392.7	2362.7
62.5°	3866.9	2309.5	1860.2	1916.8	2013.3	2123.1	2489.2	2549.1	2296.2	2209.7	2189.7
65°	2166.4	1767.1	1733.8	1757.1	1803.7	1860.2	2066.6	2199.7	2026.6	1893.5	1886.9
67.5°	1584.0	1580.7	1607.3	1627.3	1647.3	1647.3	1697.2	1750.4	1727.1	1620.6	1610.7
70°	1407.7	1417.6	1437.6	1440.9	1447.6	1424.3	1384.4	1367.7	1394.4	1327.8	1314.5
72.5°	1161.4	1194.7	1218.0	1221.3	1184.7	1154.7	1101.5	1044.9	1025.0	1011.7	1008.3
75°	891.9	915.1	925.1	921.8	908.5	865.2	802.0	745.4	708.8	668.9	688.9
77.5°	602.3	635.6	652.2	652.2	632.3	565.7	535.8	492.5	455.9	412.6	419.3
80°	422.6	445.9	472.5	469.2	435.9	402.7	359.4	319.5	289.5	256.2	252.9
82.5°	316.1	329.5	342.8	336.1	312.8	279.5	249.6	213.0	179.7	156.4	156.4
85°	113.1	123.1	149.8	156.4	169.7	169.7	143.1	119.8	96.5	79.9	79.9
87.5°	33.3	33.3	36.6	36.6	33.3	36.6	30.0	33.3	36.6	23.3	23.3
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)