

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: P648613

Luminaire Tested: **GALN-SA8B-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28804.2 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

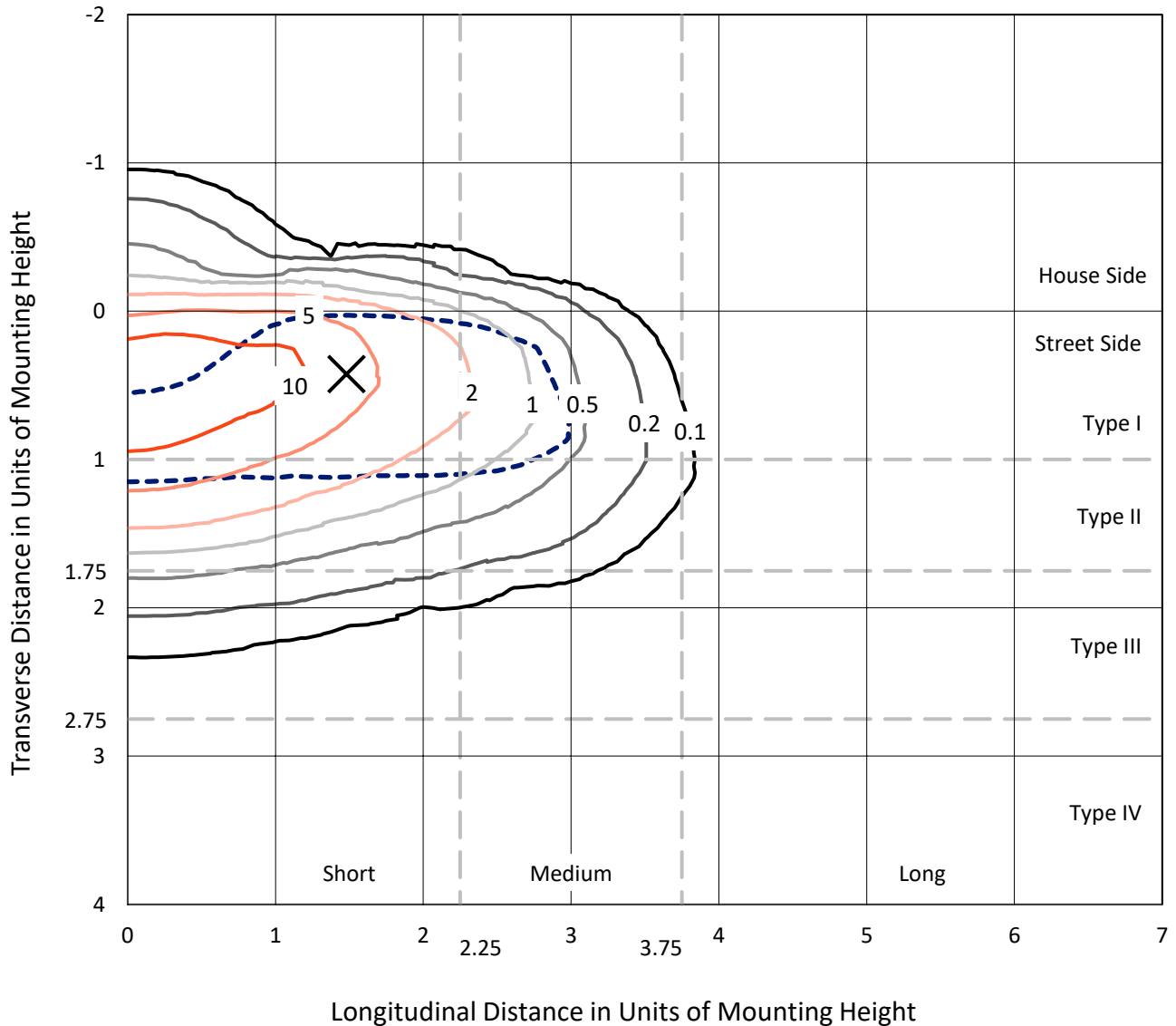
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

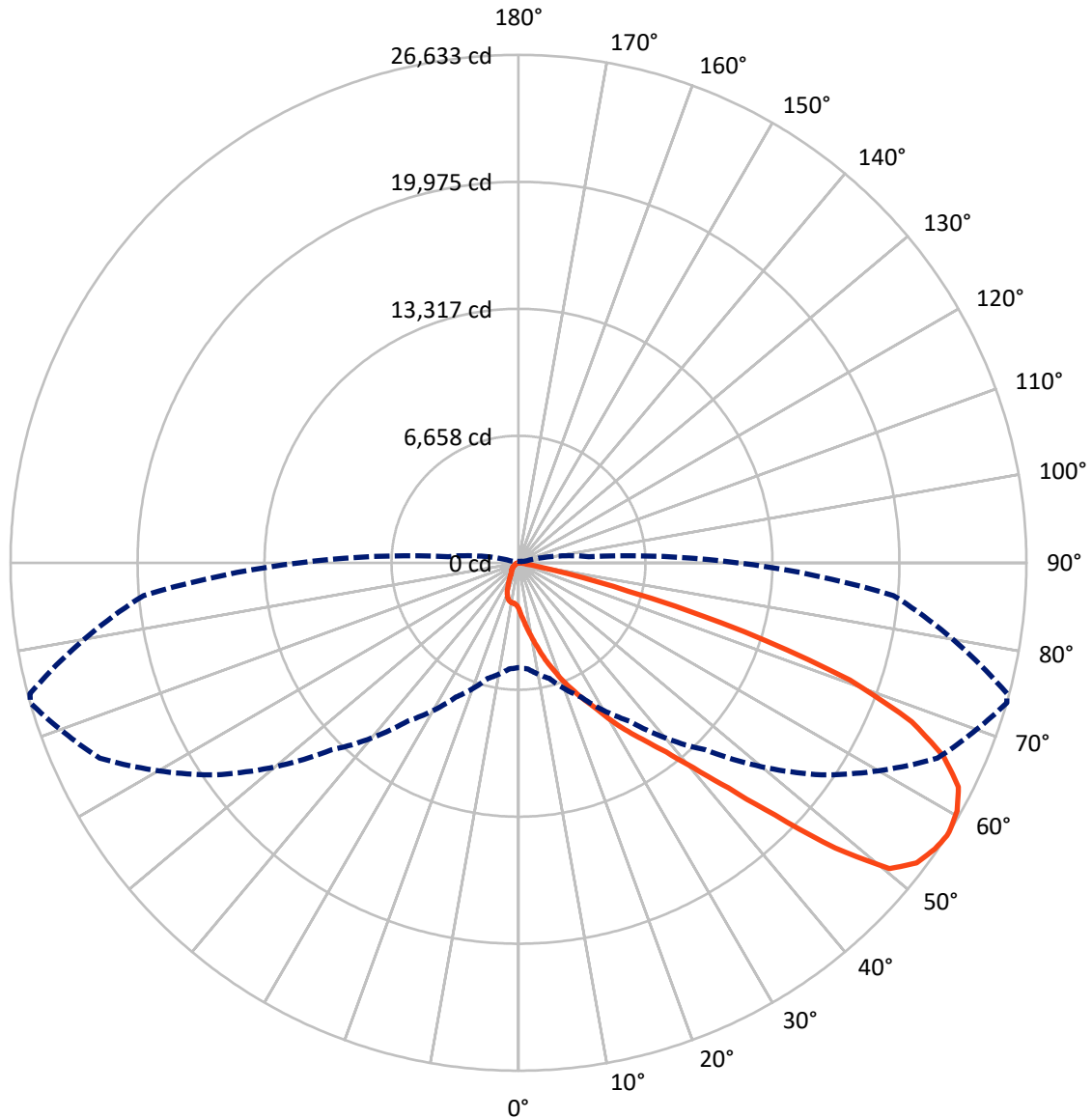
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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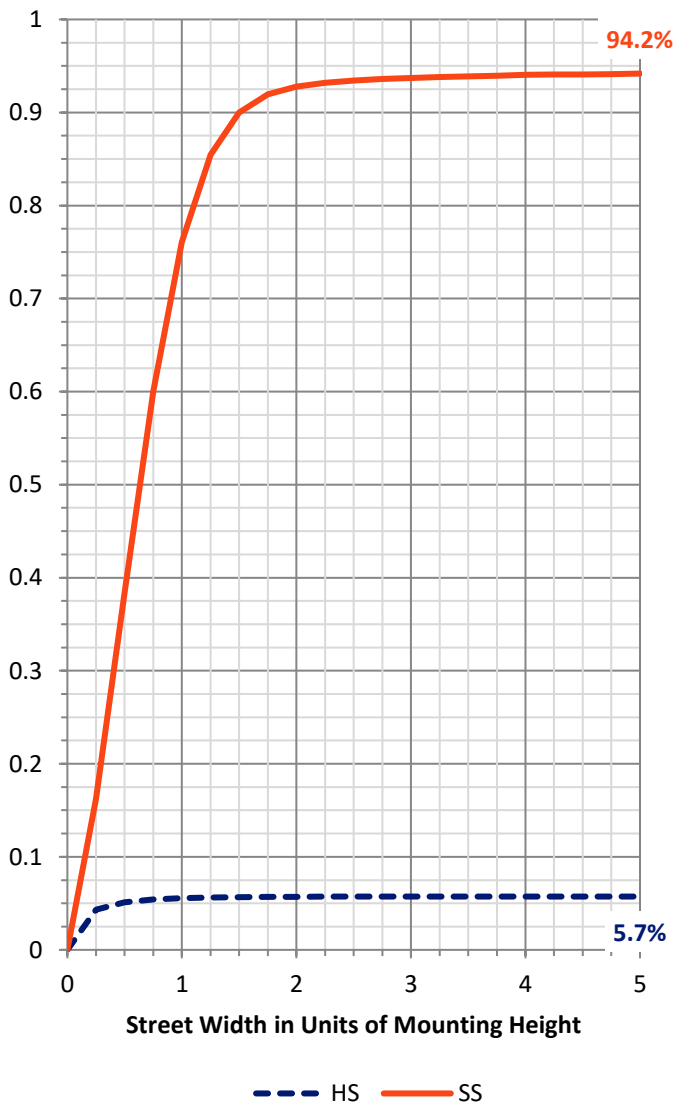
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1661.3	0.0	1661.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	27142.9	0.0	27142.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	28804.2	0.0	28804.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.2	1.0
10°-20°	1147.7	4.0
20°-30°	2455.8	8.5
30°-40°	4513.7	15.7
40°-50°	6919.5	24.0
50°-60°	7319.9	25.4
60°-70°	4780.1	16.6
70°-80°	1306.1	4.5
80°-90°	70.3	0.2
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°	28804.2	100.0
0°-180°	28804.2	100.0

Coefficient of Utilization



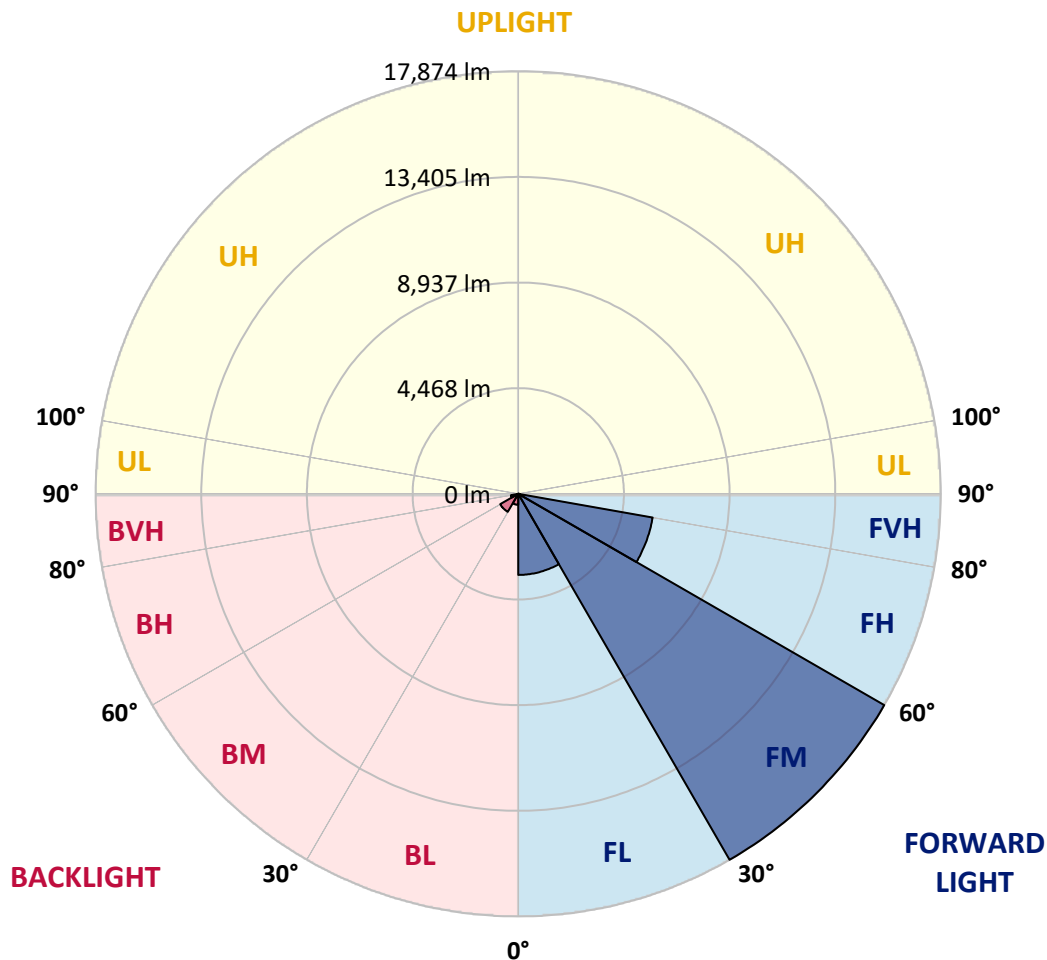
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3430.5	11.9			
FM (30°-60°)	17873.5	62.1			
FH (60°-80°)	5774.3	20.0			G3/7500
FVH (80°-90°)	64.5	0.2			G1/100
BL (0°-30°)	464.1	1.6	B1/500		
BM (30°-60°)	879.6	3.1	B1/1000		
BH (60°-80°)	311.9	1.1	B1/500		G1/500
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2412.3	2412.3	2412.3	2412.3	2412.3	2412.3	2412.3	2412.3	2412.3	2412.3	2412.3
2.5°	3530.0	3498.1	3434.6	3412.6	3319.1	3174.0	3046.7	2875.7	2740.4	2726.6	2563.5
5°	4727.2	4655.6	4625.7	4482.6	4257.9	4047.0	3685.1	3410.7	3094.4	3070.6	2742.5
7.5°	5880.6	5781.2	5751.4	5616.1	5353.6	5021.5	4552.2	4053.0	3551.8	3506.1	2983.1
10°	6715.9	6729.8	6676.1	6586.7	6373.9	6035.8	5457.0	4774.9	4061.0	4003.3	3253.5
12.5°	7314.5	7312.5	7322.5	7320.5	7207.1	6950.5	6342.0	5556.5	4621.8	4508.4	3563.7
15°	7704.3	7710.3	7740.1	7843.5	7855.4	7696.3	7189.2	6304.2	5272.1	5130.9	3899.9
17.5°	8098.1	8139.8	8187.5	8285.0	8372.5	8308.9	7950.9	7083.8	5860.8	5755.4	4259.8
20°	8748.4	8806.0	8778.2	8837.9	8883.6	8889.6	8613.2	7803.8	6574.7	6397.7	4671.5
22.5°	9788.4	9786.5	9714.9	9607.5	9518.0	9514.0	9263.4	8543.5	7223.0	7052.0	5085.1
25°	11103.0	11109.0	10969.8	10663.5	10440.8	10168.4	9880.0	9191.9	7917.1	7706.3	5520.7
27.5°	12610.4	12572.7	12361.8	11940.3	11498.7	11033.4	10617.8	9945.6	8652.9	8477.9	6019.9
30°	13964.8	13950.9	13704.2	13189.2	12608.5	12141.1	11538.5	10890.2	9605.5	9390.8	6578.7
32.5°	15225.7	15245.5	14903.5	14370.5	13809.7	13270.8	12634.3	11793.1	10540.2	10235.9	7187.2
35°	16210.1	16229.9	15876.0	15432.5	14855.7	14408.3	13801.7	12755.6	11463.0	11206.5	7887.2
37.5°	16735.1	16760.9	16556.1	16222.0	15862.0	15637.3	15072.5	13994.6	12584.6	12429.5	8714.6
40°	16834.5	16864.3	16774.8	16685.3	16665.5	16826.5	16661.5	15454.3	14139.8	13897.2	9947.5
42.5°	16536.2	16576.0	16615.7	16814.6	17220.3	17811.0	18385.7	17435.1	16142.4	15816.3	11455.1
45°	15752.6	15748.6	15905.8	16420.8	17329.7	18590.5	20187.5	19915.1	18870.9	18483.2	13585.0
47.5°	14412.2	14392.3	14732.5	15466.3	16882.3	18733.7	21657.2	22925.9	22353.2	21995.3	15873.9
50°	12369.8	12467.3	13002.3	14026.4	15770.6	18300.2	22110.6	24900.7	25211.0	24831.1	17723.4
52.5°	9977.4	9973.5	10812.7	12202.7	14123.9	17345.6	21794.3	25258.7	26139.8	25849.3	18634.3
55°	7384.1	7435.8	8308.9	9710.9	11986.0	15603.5	20762.3	24890.8	26493.7	26288.9	19234.9
57°	5492.8	5584.4	6284.4	7767.9	10124.6	13879.3	19388.0	24232.5	26633.0	26521.5	19734.0
57.5°	5126.9	5130.9	5813.0	7161.4	9579.7	13217.0	18994.2	23958.1	26629.0	26567.3	19815.6
60°	3156.1	3255.6	3726.8	4840.5	7012.2	10315.5	16355.2	22381.0	26422.1	26511.6	20163.7
62.5°	1889.3	1931.0	2237.3	2917.5	4520.3	7529.3	13384.1	20362.5	25883.2	26155.6	20139.8
65°	1215.1	1225.1	1364.3	1766.0	2826.0	5089.1	10313.5	17695.6	24489.1	24990.2	19352.2
67.5°	938.7	954.6	1010.3	1159.4	1638.7	3170.1	7294.6	14849.8	22233.9	22880.2	17443.0
70°	833.3	841.3	861.1	908.8	1083.8	1789.9	4538.3	11600.2	18437.4	18620.4	13650.6
72.5°	680.1	702.0	763.7	779.6	859.1	1117.7	2525.6	7785.8	12387.8	12433.5	7636.7
75°	527.0	531.0	622.5	668.2	723.9	769.6	1127.6	3925.7	5950.3	5632.0	2943.3
77.5°	393.8	411.7	453.4	511.1	590.6	550.8	505.1	1479.6	1847.5	1813.7	855.1
80°	252.6	262.5	316.2	383.8	459.4	359.9	284.4	433.5	405.7	417.7	204.8
82.5°	127.3	129.3	202.9	312.3	292.4	181.0	179.0	177.0	151.1	149.2	95.4
85°	13.9	29.8	131.2	179.0	131.2	59.7	83.5	81.5	79.6	81.5	55.7
87.5°	2.0	2.0	21.8	25.8	17.9	19.9	23.9	25.8	31.8	29.8	23.9
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°	2412.3	2412.3	2412.3	2412.3	2412.3	2412.3	2412.3	2412.3	2412.3	2412.3	2412.3
2.5°	2483.9	2404.4	2257.2	2116.0	2010.6	1943.0	1855.5	1823.7	1777.9	1771.9	1750.1
5°	2591.3	2440.1	2183.6	1980.8	1817.7	1694.4	1587.0	1497.5	1425.9	1410.0	1417.9
7.5°	2744.4	2519.7	2161.7	1885.3	1658.6	1447.8	1276.8	1171.4	1095.8	1067.9	1071.9
10°	2917.5	2625.1	2157.8	1783.9	1437.8	1179.3	992.4	898.9	855.1	839.2	821.4
12.5°	3122.3	2746.5	2147.8	1626.8	1195.2	940.7	807.4	751.8	709.9	698.0	698.0
15°	3353.0	2875.7	2100.1	1431.9	970.5	777.6	688.1	644.3	630.4	618.5	618.5
17.5°	3593.6	3003.0	2000.6	1191.3	805.4	666.3	610.5	584.7	564.8	550.8	550.8
20°	3868.0	3128.2	1841.5	978.4	680.1	594.6	550.8	521.0	505.1	493.2	489.2
22.5°	4128.6	3229.7	1638.7	803.4	592.7	534.9	495.2	463.4	447.5	441.5	441.5
25°	4399.1	3291.3	1394.1	664.2	540.9	485.2	441.5	415.6	401.8	397.8	395.7
27.5°	4661.6	3327.1	1179.3	580.7	493.2	439.5	397.8	377.9	363.9	359.9	362.0
30°	4979.7	3333.1	970.5	521.0	451.5	395.7	358.0	340.1	332.1	328.2	326.1
32.5°	5301.9	3325.2	815.3	485.2	411.7	358.0	326.1	312.3	306.2	300.3	300.3
35°	5663.9	3283.4	694.1	449.4	373.9	326.1	298.3	286.3	278.4	272.5	270.4
37.5°	6113.4	3261.5	624.4	409.7	340.1	296.3	270.4	258.5	252.6	244.6	242.7
40°	6821.3	3358.9	602.6	373.9	306.2	268.5	244.6	230.7	222.8	214.8	212.8
42.5°	7704.3	3530.0	566.8	338.1	276.4	242.7	218.8	202.9	188.9	179.0	175.0
45°	8847.8	3754.7	511.1	300.3	250.6	214.8	192.9	173.0	155.1	147.2	145.2
47.5°	10047.0	3971.5	461.4	270.4	222.8	190.9	167.0	145.2	129.3	123.3	121.3
50°	10782.8	4015.2	429.6	236.6	194.9	165.1	141.2	121.3	111.3	105.4	105.4
52.5°	11118.9	3945.6	385.8	206.8	169.0	145.2	121.3	105.4	99.4	95.4	93.5
55°	11353.6	3838.3	328.2	179.0	145.2	123.3	107.4	95.4	87.5	83.5	81.5
57°	11490.8	3693.0	284.4	157.1	125.3	107.4	95.4	85.5	77.6	69.6	69.6
57.5°	11496.8	3637.3	272.5	155.1	119.3	103.4	93.5	83.5	73.6	65.6	63.7
60°	11319.8	3255.6	218.8	131.2	95.4	87.5	77.6	65.6	51.7	43.8	41.7
62.5°	10751.0	2770.3	181.0	111.3	77.6	67.7	55.7	49.7	35.8	25.8	25.8
65°	9889.9	2247.3	155.1	89.5	63.7	49.7	37.8	35.8	21.8	11.9	9.9
67.5°	8644.9	1750.1	131.2	73.6	53.7	35.8	25.8	23.9	11.9	4.0	0.0
70°	6586.7	1193.2	109.4	59.7	39.8	25.8	17.9	13.9	8.0	2.0	0.0
72.5°	3796.5	656.3	91.5	45.7	29.8	19.9	13.9	8.0	8.0	0.0	0.0
75°	1356.3	282.4	69.6	33.8	23.9	15.9	9.9	4.0	6.0	2.0	0.0
77.5°	431.6	151.1	45.7	25.8	19.9	11.9	8.0	4.0	4.0	2.0	0.0
80°	127.3	79.6	27.9	21.8	13.9	9.9	6.0	2.0	4.0	2.0	0.0
82.5°	69.6	39.8	21.8	15.9	13.9	8.0	6.0	2.0	2.0	2.0	0.0
85°	35.8	23.9	17.9	15.9	13.9	8.0	6.0	2.0	0.0	2.0	2.0
87.5°	19.9	17.9	17.9	15.9	13.9	9.9	6.0	2.0	0.0	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)