

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: P532647

Luminaire Tested: **GALN-SA8A-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25662 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

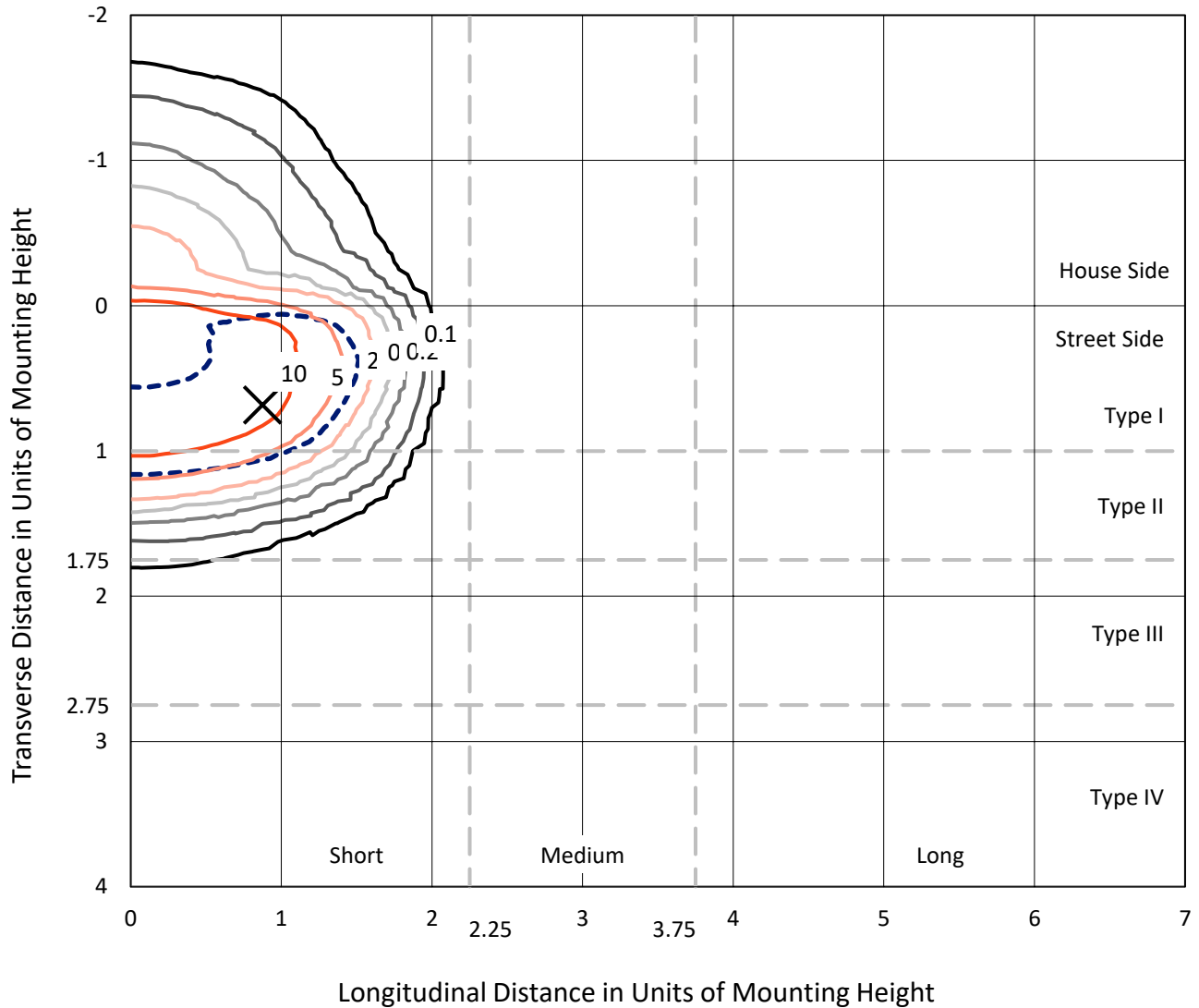
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

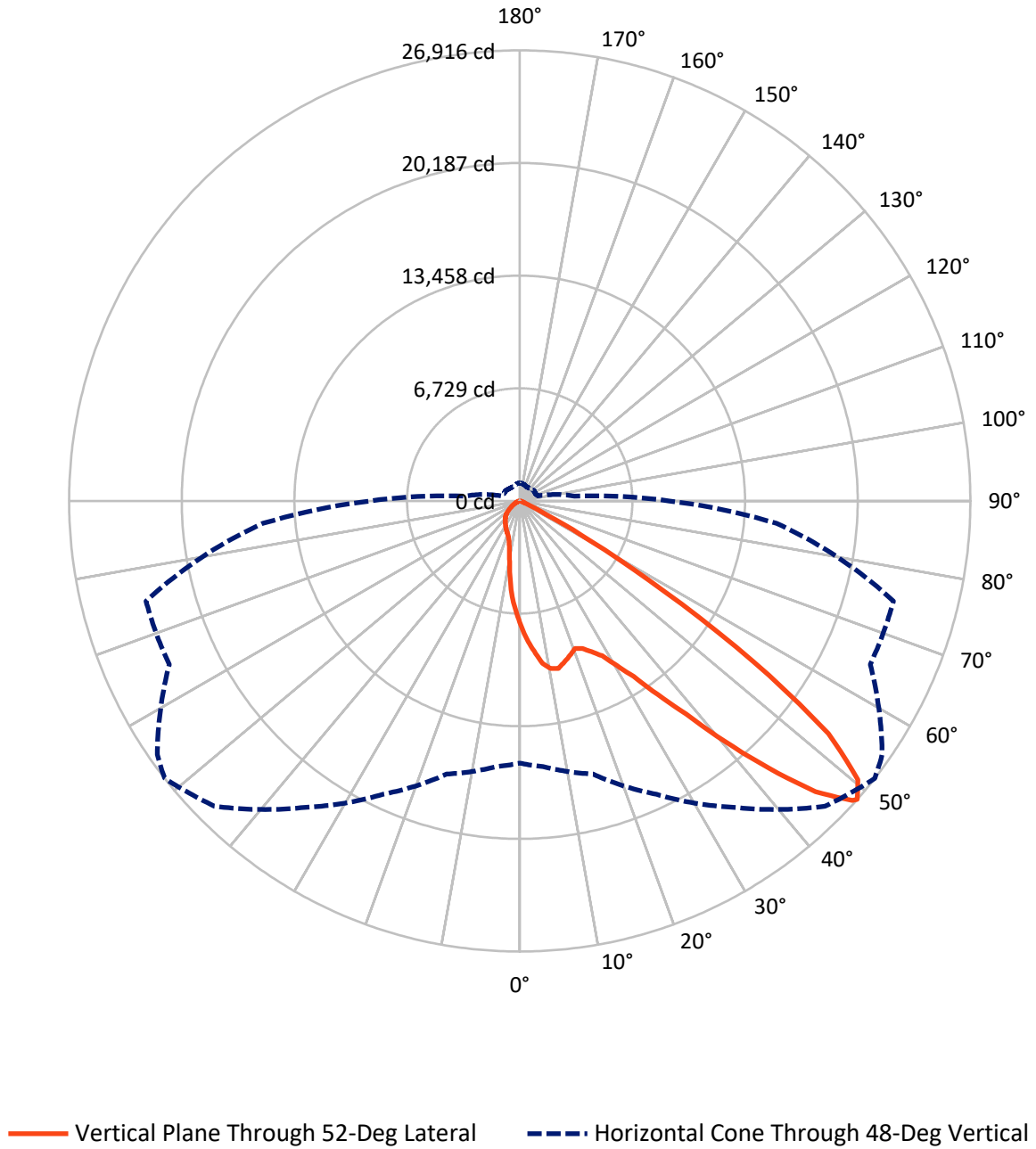
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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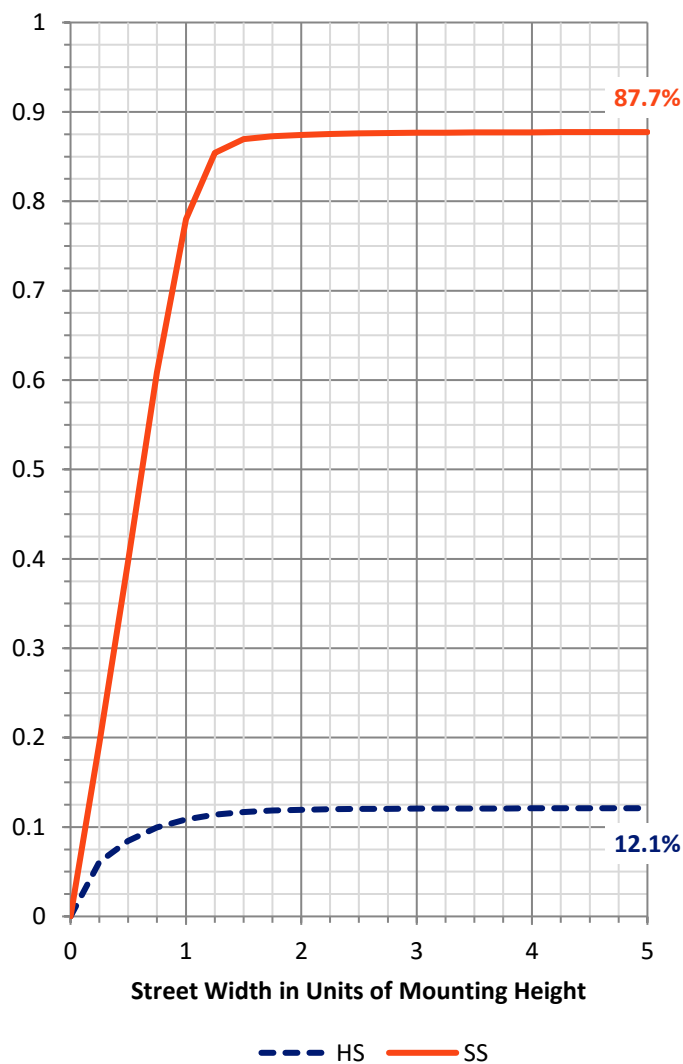
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3124.5	0.0	3124.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	22537.4	0.0	22537.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	25662.0	0.0	25662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.3	2.6
10°-20°	1772.6	6.9
20°-30°	3026.6	11.8
30°-40°	5573.5	21.7
40°-50°	8655.6	33.7
50°-60°	5209.2	20.3
60°-70°	602.5	2.3
70°-80°	116.6	0.5
80°-90°	27.0	0.1
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°	25662.0	100.0
0°-180°	25662.0	100.0

Coefficient of Utilization



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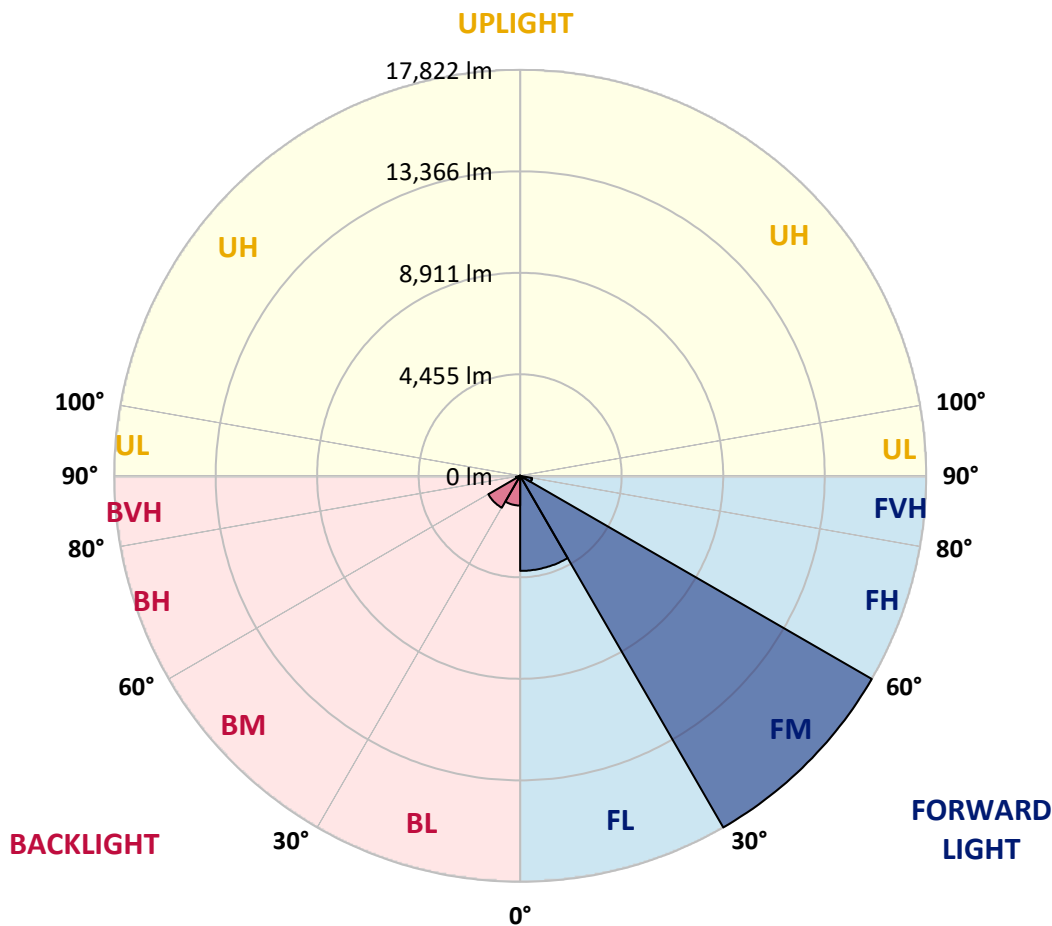
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4172.3	16.3			
FM (30°-60°)	17821.8	69.4			
FH (60°-80°)	530.5	2.1			G0/660
FVH (80°-90°)	12.8	0.1			G1/100
BL (0°-30°)	1305.2	5.1	B3/2500		
BM (30°-60°)	1616.6	6.3	B2/2500		
BH (60°-80°)	188.6	0.7	B1/500		G1/500
BVH (80°-90°)	14.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7410.8	7410.8	7410.8	7410.8	7410.8	7410.8	7410.8	7410.8	7410.8	7410.8	7410.8
2.5°	8981.9	8776.2	8794.9	8660.2	8581.7	8454.5	8282.4	8248.7	8061.7	7807.3	7549.2
5°	9790.0	9741.4	9804.9	9610.4	9617.9	9408.4	9004.4	9011.9	8581.7	8166.4	7766.1
7.5°	9842.4	9730.1	9793.7	9965.8	10066.8	10029.4	9801.2	9602.9	9195.2	8585.4	8001.8
10°	8813.6	9026.8	9094.2	9378.5	9782.5	10209.0	10182.8	10194.0	9853.6	9056.8	8203.8
12.5°	8196.4	8054.2	8282.4	8454.5	9064.2	9891.0	10268.8	10351.1	10377.3	9513.2	8405.8
15°	7915.8	7915.8	7953.2	8001.8	8443.3	9206.4	9977.0	10216.4	10781.3	10111.7	8723.8
17.5°	8091.6	8084.1	8136.5	8035.5	8200.1	8787.4	9707.7	9980.8	11234.0	10699.0	8974.5
20°	8626.6	8652.7	8619.1	8327.3	8338.5	8779.9	9408.4	9838.6	11540.7	11207.8	9307.4
22.5°	9371.0	9386.0	9195.2	8877.2	8783.7	9000.6	9580.5	9909.7	11787.6	11817.6	9408.4
25°	10231.4	10171.6	10134.1	9685.2	9400.9	9588.0	9969.5	10160.3	11941.0	12341.3	9696.5
27.5°	11424.8	11305.1	11076.9	10676.6	10467.1	10201.5	10474.6	10788.8	12378.7	13074.5	10010.7
30°	13186.7	13082.0	12636.8	12120.6	11570.7	11308.8	11394.8	11566.9	13168.0	13923.7	10425.9
32.5°	15839.0	15618.3	14974.9	13991.0	13242.9	12520.9	12498.4	12681.7	13875.1	15098.3	10919.7
35°	18760.7	18693.4	17746.9	16733.1	15285.4	14170.6	14189.3	14286.6	15229.3	16639.6	11566.9
37.5°	20702.2	21072.6	20470.3	19381.7	18165.9	16572.3	16168.2	16201.9	17088.5	18465.2	12734.1
40°	22202.4	21888.1	21959.2	21704.8	20874.3	19789.5	18895.4	18719.6	19239.5	20485.3	13893.8
42.5°	21547.7	21562.7	22000.3	22602.6	22808.4	22729.8	21817.0	21484.1	21080.1	22138.8	14997.3
45°	19699.7	20085.0	20653.6	22247.2	23646.3	24959.4	24779.8	24226.2	22352.0	23448.1	15633.3
47.5°	16751.8	16736.9	17668.4	19740.8	22849.5	25924.6	26740.1	26351.0	23253.5	23302.2	15502.4
48°	15663.2	15932.6	16894.0	19333.1	22344.5	25782.4	26915.9	26425.8	23100.2	23107.7	15390.1
50°	11578.1	11529.5	12726.6	15719.3	19957.8	24226.2	26175.2	26556.8	23096.4	22123.8	14604.5
52.5°	6116.4	6325.9	7197.5	9883.5	14110.7	19826.9	23088.9	23683.8	22280.9	20515.2	13474.8
55°	2599.9	2349.3	3018.9	4462.9	7938.2	13246.6	16938.9	18263.2	18839.3	18154.7	11787.6
57.5°	927.7	1013.8	1167.2	1679.7	3336.9	7249.9	10100.5	11129.2	13052.1	13321.4	8031.8
60°	594.8	606.0	654.7	770.6	1253.2	2794.5	4792.1	5611.4	6483.0	6692.5	3748.4
62.5°	460.1	463.9	486.3	505.0	594.8	1084.9	1799.4	2132.3	2214.6	1904.1	983.9
65°	385.3	389.1	396.5	396.5	422.7	508.8	628.5	692.1	673.4	665.9	557.4
67.5°	295.5	303.0	318.0	318.0	332.9	310.5	347.9	370.4	419.0	508.8	475.1
70°	231.9	235.7	246.9	254.4	254.4	224.5	250.6	273.1	306.8	377.8	374.1
72.5°	179.6	187.0	194.5	194.5	183.3	153.4	179.6	198.3	220.7	261.9	254.4
75°	138.4	138.4	142.2	116.0	89.8	78.6	108.5	130.9	164.6	172.1	142.2
77.5°	37.4	41.2	37.4	33.7	37.4	56.1	71.1	82.3	104.7	104.7	93.5
80°	0.0	3.7	11.2	22.4	37.4	52.4	63.6	71.1	82.3	89.8	86.0
82.5°	0.0	3.7	11.2	22.4	33.7	41.2	56.1	59.9	67.3	78.6	78.6
85°	0.0	3.7	7.5	15.0	22.4	26.2	26.2	22.4	22.4	18.7	15.0
87.5°	0.0	0.0	3.7	7.5	7.5	11.2	11.2	11.2	11.2	11.2	11.2
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°	7410.8	7410.8	7410.8	7410.8	7410.8	7410.8	7410.8	7410.8	7410.8	7410.8	7410.8
2.5°	7448.2	7332.2	7156.4	6879.5	6613.9	6441.9	6277.3	6094.0	5993.0	5985.5	5929.4
5°	7538.0	7276.1	6857.1	6382.0	5873.2	5435.6	4994.1	4706.1	4448.0	4305.8	4279.6
7.5°	7586.6	7246.2	6569.1	5772.2	4904.3	4189.8	3696.0	3333.2	3191.0	3086.3	3082.5
10°	7687.6	7193.8	6138.8	4964.2	3890.6	3168.6	2828.1	2663.5	2585.0	2555.0	2510.2
12.5°	7762.4	7096.5	5697.4	4133.7	3075.0	2626.1	2476.5	2439.1	2442.8	2457.8	2439.1
15°	7867.2	7010.5	5102.6	3393.0	2581.2	2364.3	2364.3	2371.7	2424.1	2431.6	2427.9
17.5°	7859.7	6842.1	4489.1	2794.5	2282.0	2252.0	2263.3	2334.3	2368.0	2379.2	2353.0
20°	7949.5	6685.0	3856.9	2386.7	2113.6	2158.5	2233.3	2252.0	2293.2	2300.7	2270.7
22.5°	7923.3	6292.2	3269.6	2065.0	1986.4	2072.5	2147.3	2169.7	2158.5	2136.1	2132.3
25°	7874.6	5955.5	2730.9	1851.8	1892.9	1986.4	2057.5	2016.4	1993.9	1997.7	2001.4
27.5°	7788.6	5529.1	2285.7	1702.1	1765.7	1904.1	1900.4	1885.4	1907.9	1889.2	1907.9
30°	7773.6	5102.6	1919.1	1567.4	1672.2	1773.2	1780.7	1806.9	1833.1	1799.4	1833.1
32.5°	7796.1	4635.0	1657.2	1485.1	1616.1	1619.8	1702.1	1728.3	1709.6	1634.8	1642.3
35°	7968.2	4275.9	1466.4	1440.3	1526.3	1530.0	1608.6	1574.9	1492.6	1447.7	1473.9
37.5°	8331.0	3976.6	1376.7	1399.1	1406.6	1455.2	1459.0	1391.6	1399.1	1395.4	1410.3
40°	8794.9	3748.4	1313.1	1361.7	1354.2	1387.9	1253.2	1290.6	1324.3	1335.5	1343.0
42.5°	9112.9	3583.8	1271.9	1301.8	1286.9	1227.0	1152.2	1189.6	1215.8	1256.9	1264.4
45°	9255.0	3452.9	1223.3	1197.1	1197.1	1088.6	1058.7	1066.2	1126.0	1170.9	1163.4
47.5°	9023.1	3325.7	1137.2	1058.7	1084.9	995.1	961.4	961.4	1025.0	1081.1	1069.9
48°	8933.3	3273.3	1141.0	1028.8	1047.5	980.1	946.5	939.0	1010.0	1062.4	1062.4
50°	8488.1	3078.8	1043.7	946.5	909.0	901.6	879.1	886.6	931.5	980.1	980.1
52.5°	7620.3	2659.8	882.9	811.8	744.4	789.3	800.6	785.6	808.0	852.9	849.2
55°	6359.6	2042.5	707.0	673.4	621.0	669.6	692.1	673.4	650.9	684.6	684.6
57.5°	4073.9	1099.8	564.9	572.4	520.0	568.6	587.3	542.4	501.3	527.5	523.7
60°	1836.8	658.4	463.9	452.7	419.0	475.1	505.0	452.7	396.5	415.2	433.9
62.5°	688.3	467.6	351.6	344.2	336.7	389.1	404.0	362.9	306.8	318.0	321.7
65°	505.0	411.5	280.6	254.4	269.3	306.8	299.3	258.1	220.7	220.7	228.2
67.5°	430.2	359.1	228.2	198.3	198.3	202.0	187.0	164.6	153.4	160.9	168.3
70°	336.7	284.3	179.6	153.4	138.4	123.5	108.5	104.7	93.5	104.7	101.0
72.5°	217.0	190.8	138.4	116.0	104.7	86.0	71.1	67.3	56.1	52.4	52.4
75°	116.0	116.0	108.5	93.5	82.3	67.3	56.1	44.9	29.9	22.4	22.4
77.5°	82.3	89.8	97.3	89.8	74.8	56.1	44.9	29.9	15.0	7.5	7.5
80°	78.6	89.8	97.3	86.0	74.8	56.1	41.2	22.4	11.2	3.7	3.7
82.5°	71.1	82.3	89.8	78.6	67.3	48.6	37.4	22.4	11.2	3.7	3.7
85°	15.0	18.7	22.4	22.4	26.2	33.7	26.2	18.7	7.5	3.7	3.7
87.5°	11.2	11.2	11.2	11.2	11.2	11.2	7.5	7.5	3.7	3.7	3.7
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)