

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: P532665

Luminaire Tested: **GALN-SA8A-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
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-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20921 lumens
Efficiency: N/A
Efficacy: 85.7 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

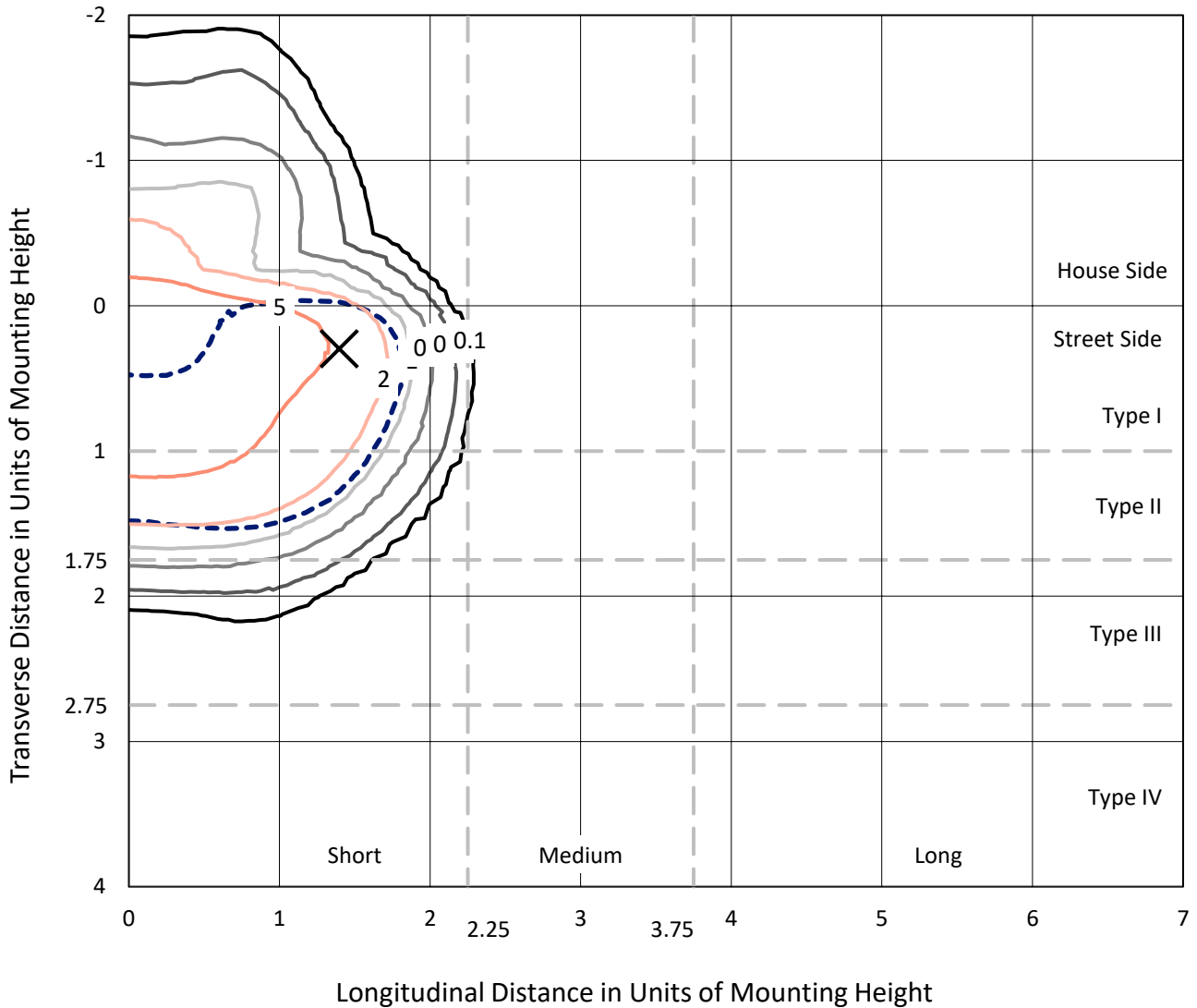
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

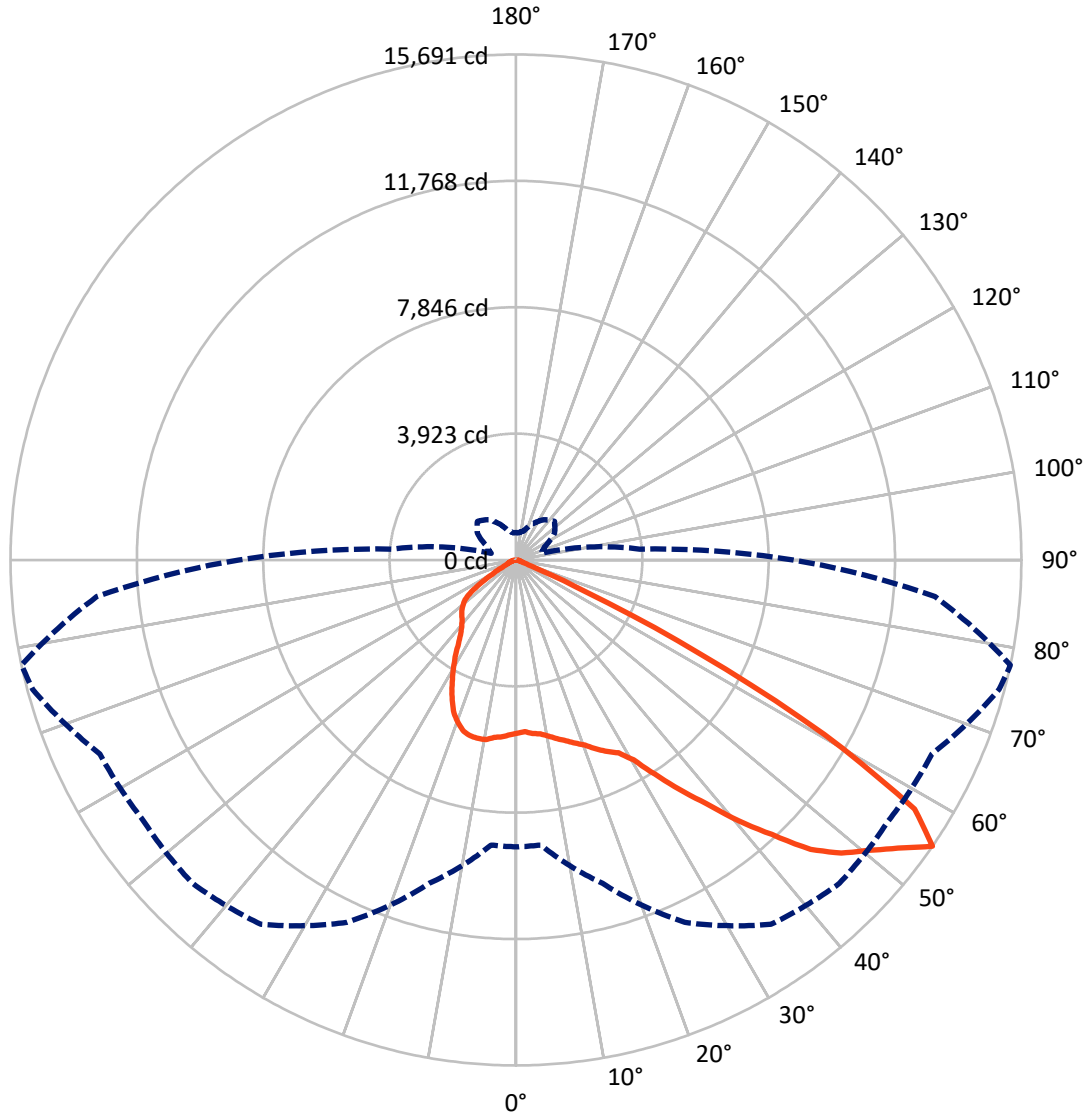
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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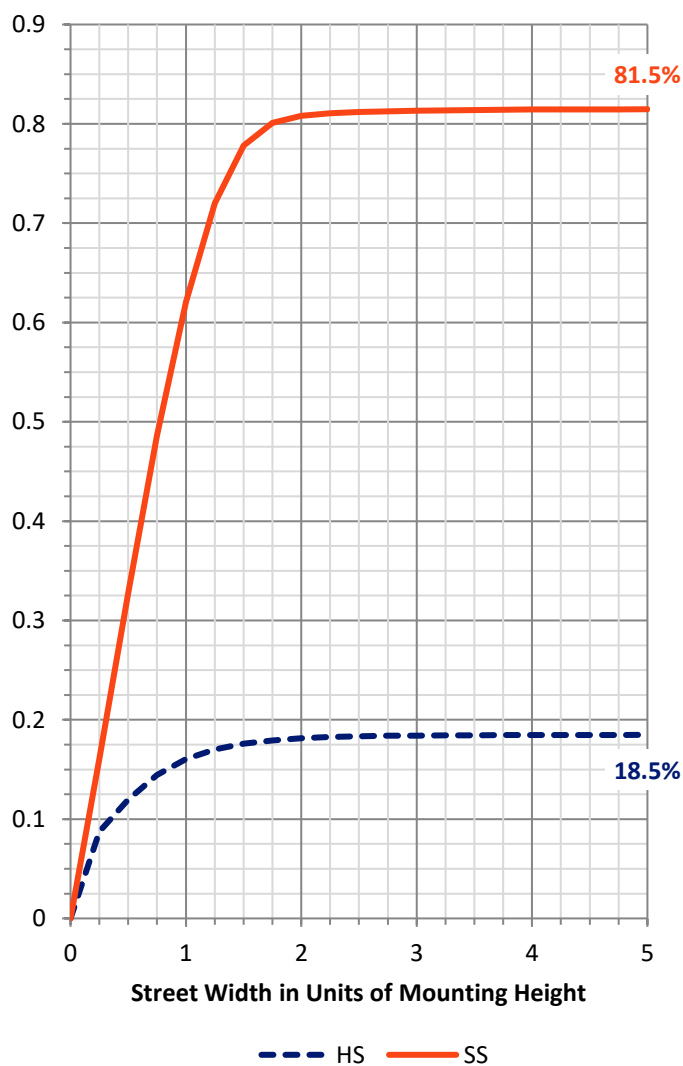
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3885.8	0.0	3885.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17035.1	0.0	17035.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	20921.0	0.0	20921.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.6	2.3
10°-20°	1269.3	6.1
20°-30°	2224.9	10.6
30°-40°	3668.6	17.5
40°-50°	5338.2	25.5
50°-60°	6048.7	28.9
60°-70°	1729.4	8.3
70°-80°	134.3	0.6
80°-90°	27.9	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°	20921.0	100.0
0°-180°	20921.0	100.0

Coefficient of Utilization



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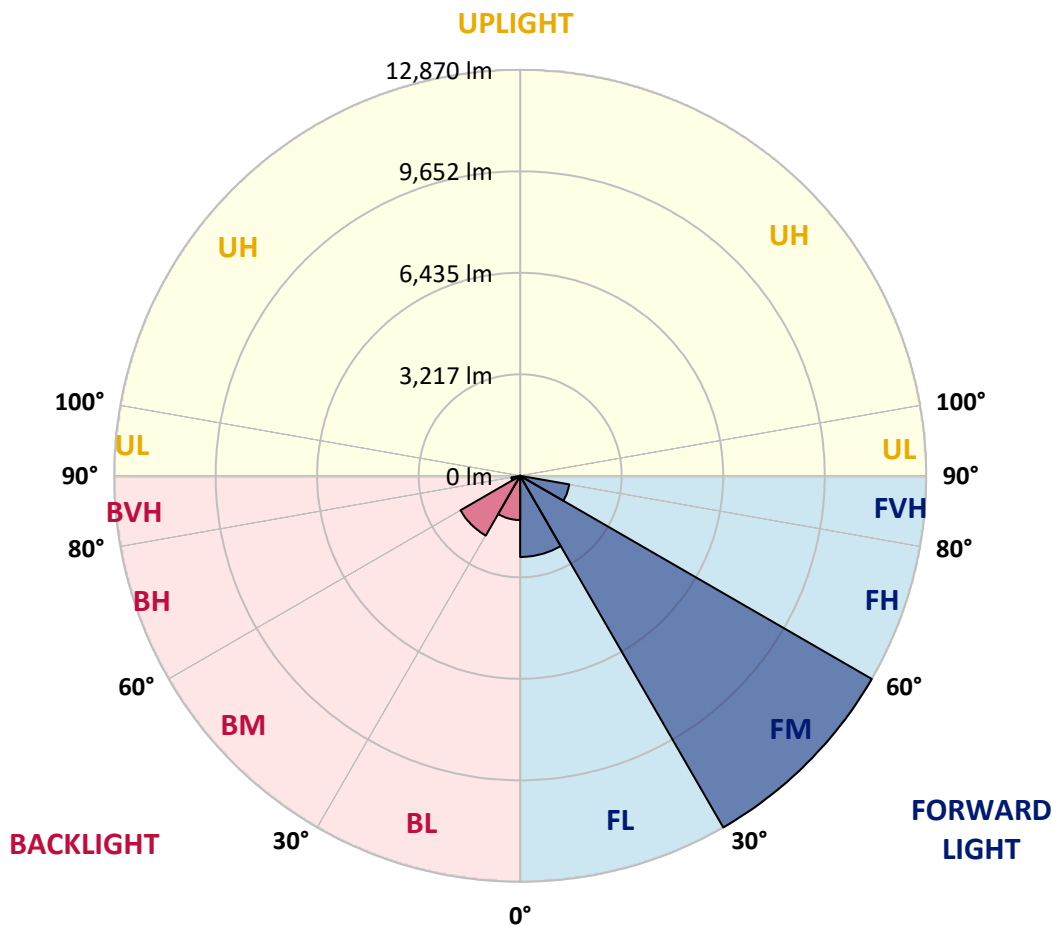
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2571.8	12.3			
FM (30°-60°)	12869.7	61.5			
FH (60°-80°)	1580.1	7.6			G1/1800
FVH (80°-90°)	13.6	0.1			G1/100
BL (0°-30°)	1402.0	6.7	B3/2500		
BM (30°-60°)	2185.8	10.4	B2/2500		
BH (60°-80°)	283.6	1.4	B1/500		G1/500
BVH (80°-90°)	14.3	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°	55°	65°	75°	78°	85°
0°	5378.8	5378.8	5378.8	5378.8	5378.8	5378.8	5378.8	5378.8	5378.8	5378.8	5378.8
2.5°	5057.1	5105.7	5113.2	5173.1	5169.3	5270.3	5300.3	5304.0	5371.3	5337.7	5423.7
5°	4915.0	4888.8	4877.6	4982.3	5012.2	5102.0	5176.8	5221.7	5360.1	5408.7	5498.5
7.5°	4787.8	4787.8	4795.3	4888.8	4877.6	4993.5	5072.1	5210.5	5412.5	5453.6	5562.1
10°	4664.4	4619.5	4675.6	4772.8	4855.1	4907.5	5072.1	5203.0	5438.6	5558.3	5708.0
12.5°	4600.8	4623.2	4630.7	4701.8	4791.5	4948.6	5038.4	5255.4	5625.7	5696.7	5857.6
15°	5001.0	4956.1	4847.7	4784.1	4858.9	4933.7	5158.1	5378.8	5722.9	5823.9	6003.5
17.5°	5464.8	5427.4	5337.7	5165.6	4997.3	5135.7	5311.5	5513.5	5827.7	5977.3	6242.9
20°	6070.8	6010.9	5921.2	5584.5	5438.6	5289.0	5476.1	5715.4	5999.7	6134.4	6407.4
22.5°	6792.7	6792.7	6590.7	6183.0	5880.0	5737.9	5816.4	5954.8	6190.5	6373.8	6643.1
25°	7544.5	7522.1	7338.8	6916.1	6403.7	6235.4	6325.1	6422.4	6486.0	6587.0	6766.5
27.5°	8404.8	8273.9	8042.0	7574.5	7121.9	6796.4	6893.7	6807.7	6729.1	6781.5	7039.6
30°	8988.4	9070.6	8775.2	8326.3	7899.9	7537.1	7555.8	7480.9	7121.9	7196.7	7350.0
32.5°	9594.3	9646.7	9482.1	9235.2	8808.8	8386.1	8232.8	8169.2	7899.9	7933.5	7783.9
35°	10099.3	10200.3	10054.4	9945.9	9822.5	9482.1	9059.4	9265.2	8831.3	8749.0	8360.0
37.5°	10563.1	10533.2	10705.2	10593.0	10566.8	10327.4	9863.6	9904.8	9613.0	9594.3	9145.5
40°	10978.3	10985.8	11221.4	11273.8	11169.1	10742.6	10069.4	10394.8	10630.4	10652.9	10076.8
42.5°	11322.4	11423.4	11625.4	12048.1	11891.0	11180.3	10282.6	10637.9	11513.2	11651.6	10959.6
45°	11621.7	11827.4	12078.0	12455.8	12366.0	11801.2	10813.7	11139.1	12455.8	12818.6	11790.0
47.5°	11640.4	11909.7	12182.7	12743.8	12856.0	12134.1	11363.6	11932.1	13203.9	13596.6	12395.9
50°	11565.5	11707.7	12253.8	12863.5	13117.8	12676.5	12134.1	12597.9	13929.5	14176.4	12702.6
52.5°	10679.1	10787.5	11883.5	12975.7	13589.1	13289.9	13155.2	13525.6	14670.1	14853.4	12990.7
55°	8902.3	8883.6	10391.0	12410.9	13806.1	14198.8	14116.5	14247.5	15526.7	15691.3	13061.7
57.5°	6089.5	6429.9	7731.6	10334.9	12478.2	13985.6	14071.7	13854.7	14528.0	14591.6	11386.0
60°	3284.1	3426.3	4473.6	6897.4	9500.8	11397.2	11621.7	11228.9	11176.5	10997.0	8128.0
62.5°	1305.4	1376.5	1971.2	3415.1	5176.8	6927.4	7409.9	7249.0	6904.9	6433.6	4208.0
65°	620.9	665.8	980.0	1597.2	2296.7	2887.6	3370.2	3519.8	2595.9	2337.8	1387.7
67.5°	422.7	456.3	714.4	912.7	819.2	856.6	1114.7	1036.1	609.7	519.9	385.3
70°	321.7	344.1	572.3	620.9	366.6	258.1	288.0	269.3	250.6	254.4	250.6
72.5°	228.2	246.9	418.9	366.6	160.8	119.7	153.4	183.3	183.3	183.3	179.5
75°	138.4	157.1	243.1	142.1	63.6	63.6	97.3	123.4	130.9	134.7	127.2
77.5°	71.1	89.8	82.3	41.1	41.1	48.6	71.1	86.0	93.5	93.5	89.8
80°	15.0	15.0	15.0	22.4	41.1	52.4	71.1	78.5	89.8	89.8	82.3
82.5°	0.0	3.7	11.2	22.4	37.4	48.6	67.3	78.5	89.8	93.5	86.0
85°	0.0	3.7	7.5	15.0	26.2	29.9	26.2	22.4	22.4	22.4	22.4
87.5°	0.0	0.0	3.7	3.7	3.7	7.5	7.5	7.5	7.5	7.5	7.5
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°	5378.8	5378.8	5378.8	5378.8	5378.8	5378.8	5378.8	5378.8	5378.8	5378.8	5378.8
2.5°	5431.2	5442.4	5423.7	5419.9	5405.0	5449.9	5341.4	5315.2	5382.5	5319.0	5333.9
5°	5502.2	5528.4	5494.8	5438.6	5356.4	5229.2	5120.7	4978.6	4911.2	4862.6	4855.1
7.5°	5554.6	5573.3	5539.6	5360.1	5113.2	4791.5	4552.2	4376.4	4238.0	4196.8	4129.5
10°	5767.8	5771.6	5603.2	5206.7	4724.2	4301.5	3935.0	3665.7	3527.3	3441.2	3403.8
12.5°	5909.9	5902.5	5562.1	4903.8	4260.4	3699.3	3280.4	2955.0	2827.8	2786.7	2760.5
15°	6089.5	6048.3	5464.8	4593.3	3661.9	3056.0	2678.2	2453.8	2442.5	2416.3	2442.5
17.5°	6231.6	6115.7	5322.7	4028.5	3089.6	2517.3	2270.5	2285.4	2315.4	2341.5	2345.3
20°	6463.5	6224.1	4997.3	3534.7	2558.5	2158.3	2154.5	2221.8	2296.7	2326.6	2356.5
22.5°	6639.3	6269.0	4649.4	3007.3	2124.6	2012.4	2076.0	2177.0	2233.1	2263.0	2307.9
25°	6702.9	6145.6	4185.6	2479.9	1915.1	1945.0	2042.3	2109.6	2180.7	2214.4	2195.7
27.5°	6766.5	6082.0	3632.0	2042.3	1802.9	1900.2	1982.5	2049.8	2072.2	2117.1	2147.0
30°	6919.9	5861.3	3134.5	1765.5	1746.8	1870.2	1930.1	1952.5	2012.4	2038.6	2038.6
32.5°	7043.3	5775.3	2607.1	1634.6	1739.3	1885.2	1892.7	1892.7	1900.2	1881.5	1874.0
35°	7297.7	5479.8	2135.8	1556.0	1735.6	1888.9	1907.6	1844.1	1672.0	1604.7	1586.0
37.5°	7611.9	5289.0	1787.9	1537.3	1761.8	1933.8	1963.7	1724.4	1499.9	1391.5	1372.8
40°	7993.4	5154.4	1559.8	1529.9	1821.6	2038.6	1948.8	1630.8	1339.1	1182.0	1174.5
42.5°	8438.5	5030.9	1406.4	1526.1	1896.4	2147.0	1933.8	1552.3	1174.5	1069.8	1084.7
45°	8793.9	4963.6	1301.7	1499.9	1922.6	2210.6	1945.0	1413.9	1107.2	1039.9	1047.3
47.5°	9070.6	4821.5	1215.7	1455.0	1918.9	2233.1	1844.1	1357.8	1073.5	1092.2	1110.9
50°	9078.1	4630.7	1107.2	1357.8	1862.8	2191.9	1728.1	1305.4	1066.0	1144.6	1182.0
52.5°	8977.1	4361.4	991.2	1219.4	1731.8	2049.8	1623.4	1283.0	1032.4	1024.9	1069.8
55°	8618.1	3856.4	796.7	987.5	1462.5	1690.7	1529.9	1241.8	931.4	845.3	852.8
57.5°	6964.8	2764.2	587.3	706.9	1036.1	1238.1	1380.2	1223.1	837.9	718.2	721.9
60°	4312.8	1567.3	430.2	482.5	639.6	751.8	1118.4	1137.1	748.1	606.0	598.5
62.5°	2214.4	774.3	332.9	340.4	392.7	441.4	766.8	953.8	677.0	576.0	576.0
65°	740.6	381.5	291.8	261.8	261.8	273.1	463.8	662.1	572.3	482.5	482.5
67.5°	317.9	284.3	254.4	228.2	209.5	198.2	261.8	385.3	426.4	366.6	351.6
70°	246.9	239.4	220.7	190.8	164.6	149.6	153.4	198.2	243.1	235.6	228.2
72.5°	183.3	183.3	175.8	149.6	127.2	108.5	101.0	104.7	116.0	119.7	123.4
75°	127.2	130.9	130.9	116.0	93.5	78.5	67.3	56.1	44.9	37.4	33.7
77.5°	86.0	89.8	97.3	86.0	71.1	52.4	41.1	29.9	18.7	7.5	7.5
80°	74.8	86.0	93.5	86.0	74.8	56.1	41.1	22.4	11.2	0.0	0.0
82.5°	78.5	86.0	97.3	82.3	71.1	52.4	41.1	26.2	11.2	3.7	0.0
85°	18.7	18.7	22.4	26.2	33.7	37.4	29.9	18.7	11.2	3.7	0.0
87.5°	7.5	7.5	7.5	7.5	7.5	3.7	3.7	3.7	3.7	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)