

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: P534170

Luminaire Tested: **GALN-SA9C-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41172 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

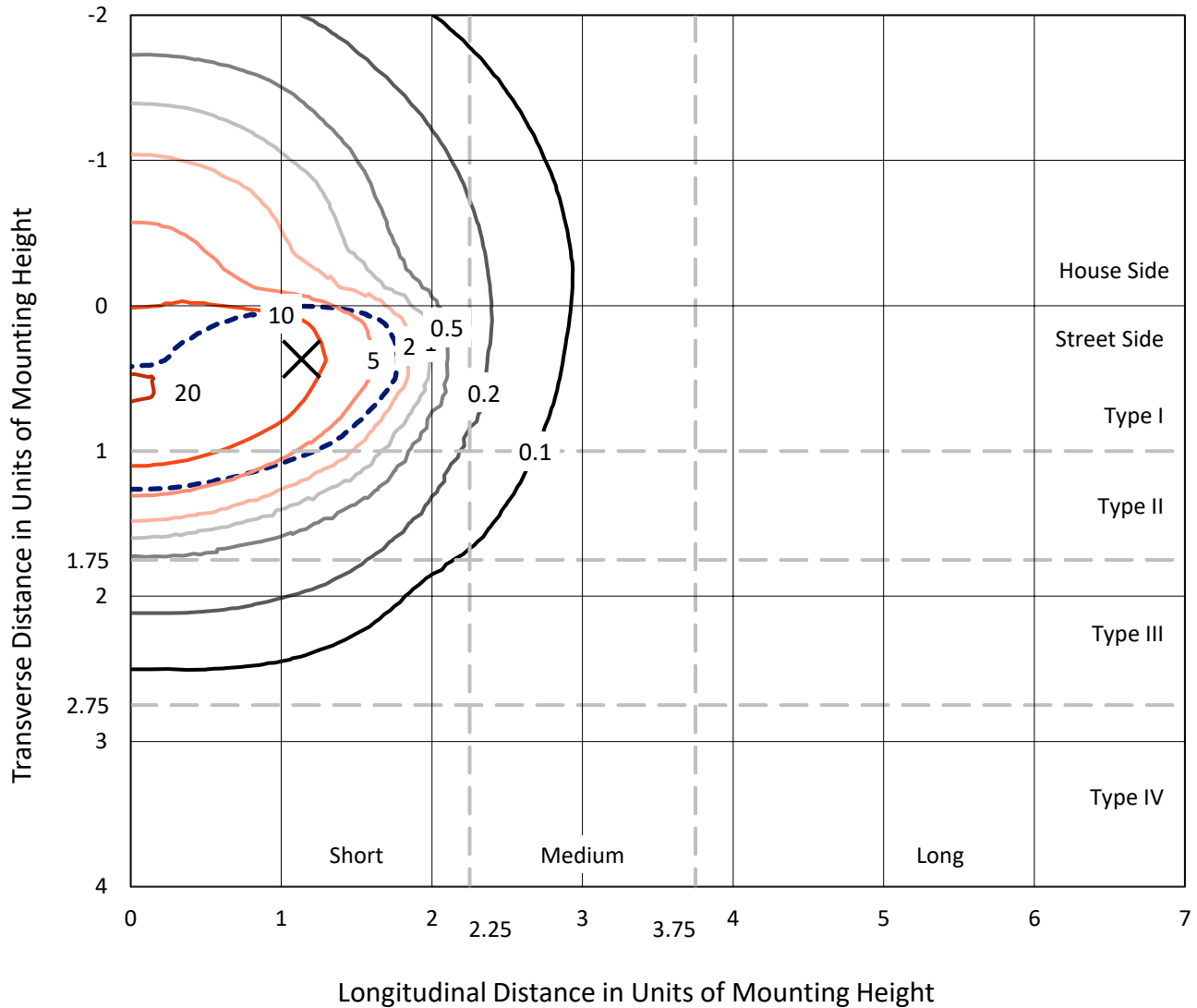
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

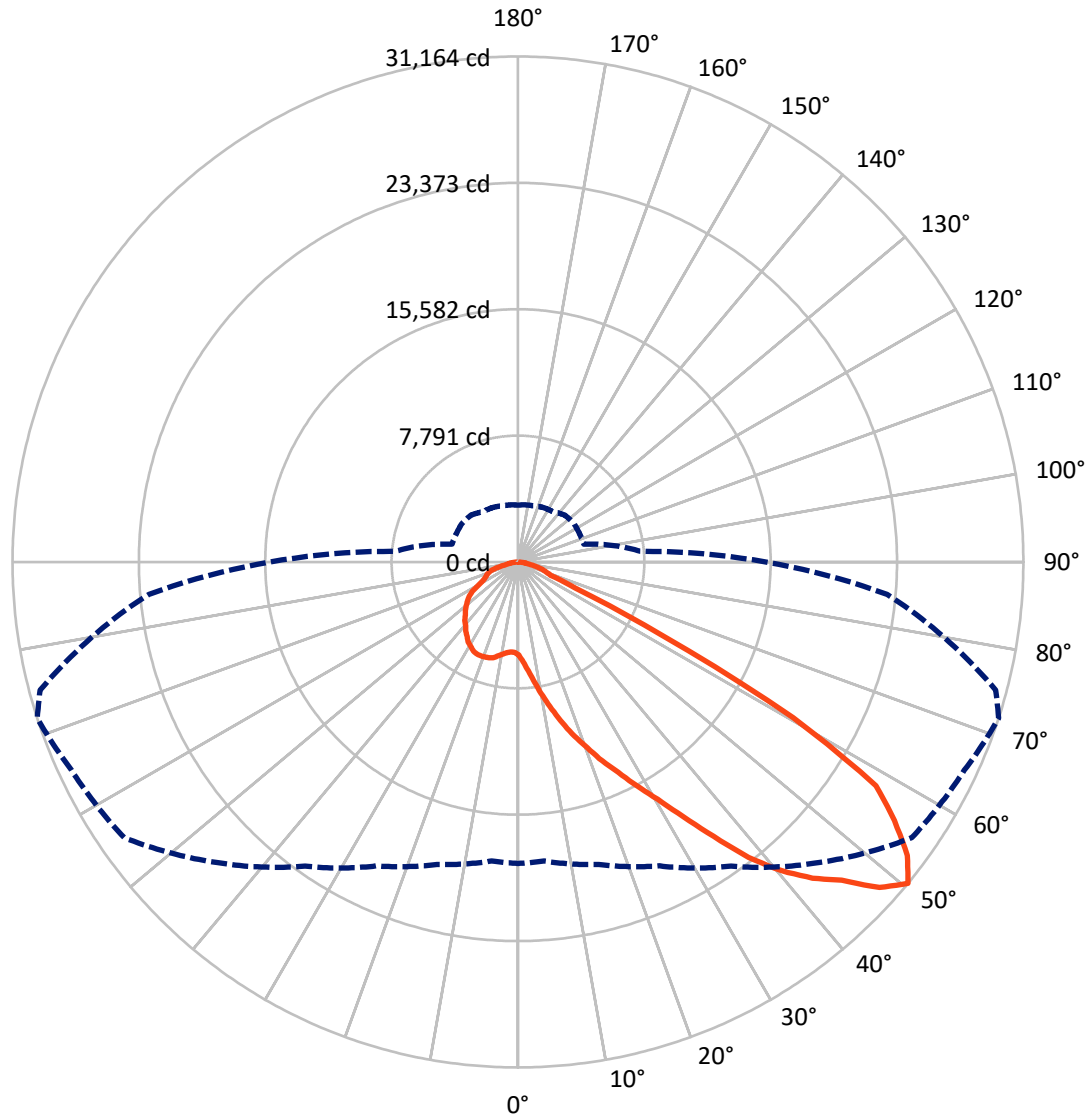
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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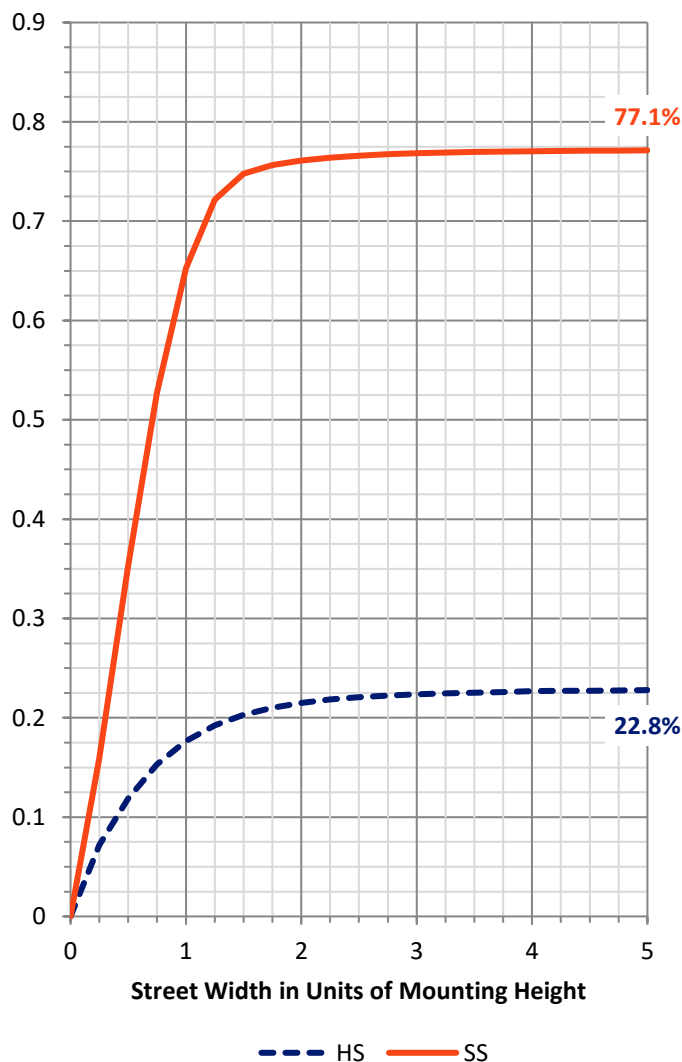
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9432.8	0.0	9432.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	31739.3	0.0	31739.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	41172.0	0.0	41172.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.2	1.6
10°-20°	2520.3	6.1
20°-30°	4886.6	11.9
30°-40°	8095.5	19.7
40°-50°	11327.3	27.5
50°-60°	9556.0	23.2
60°-70°	2912.7	7.1
70°-80°	1021.8	2.5
80°-90°	177.7	0.4
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°	41172.0	100.0
0°-180°	41172.0	100.0



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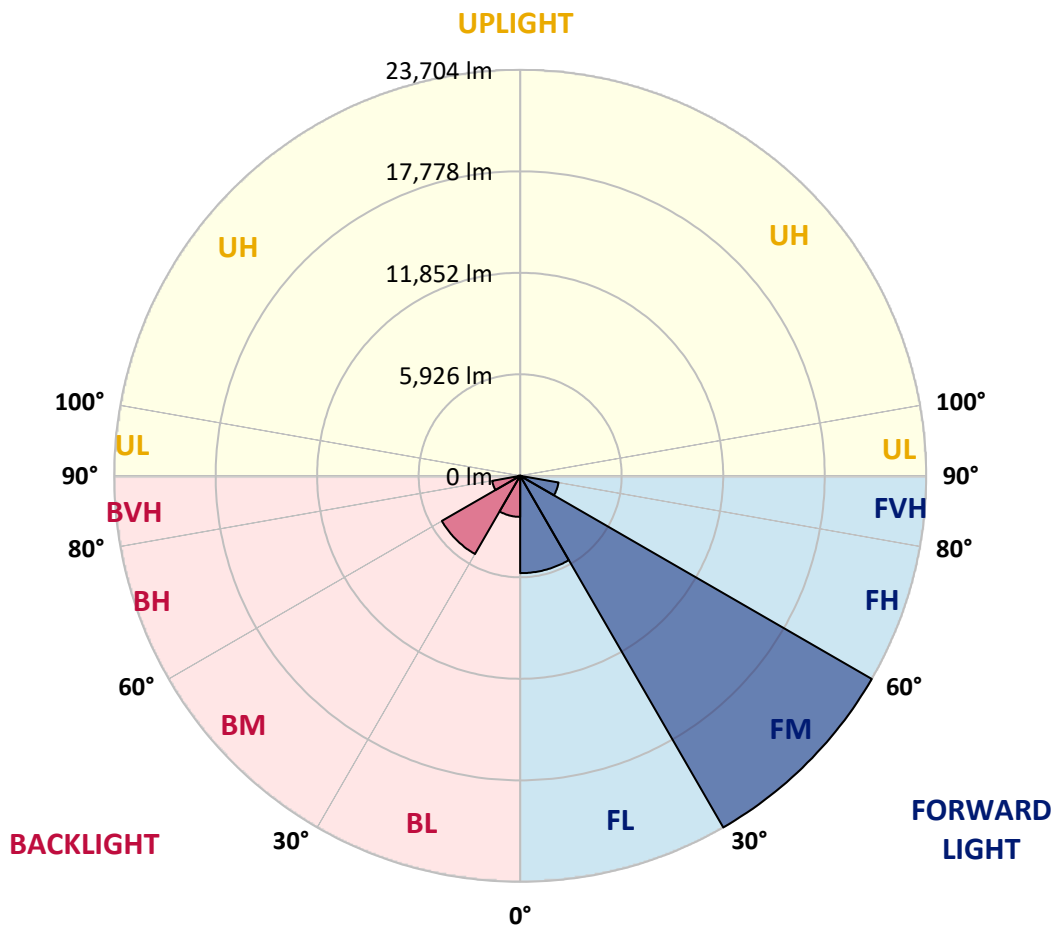
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5683.2	13.8			
FM (30°-60°)	23703.8	57.6			
FH (60°-80°)	2272.6	5.5			G2/5000
FVH (80°-90°)	79.6	0.2			G1/100
BL (0°-30°)	2397.8	5.8	B3/2500		
BM (30°-60°)	5274.9	12.8	B4/8500		
BH (60°-80°)	1661.9	4.0	B3/2500		G3/2500
BVH (80°-90°)	98.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5731.5	5731.5	5731.5	5731.5	5731.5	5731.5	5731.5	5731.5	5731.5	5731.5	5731.5
2.5°	7372.0	7326.1	7188.6	7142.7	6979.7	6684.2	6582.3	6281.7	6154.4	6037.2	5899.6
5°	9323.2	9109.3	9094.0	8834.1	8457.1	8238.1	7586.0	7147.8	6745.3	6541.5	6164.5
7.5°	10566.3	10571.4	10571.4	10357.4	10056.9	9501.5	8915.7	8126.0	7519.7	7219.1	6577.2
10°	11748.3	11646.4	11590.4	11570.0	11366.2	10826.2	10199.5	9221.3	8390.9	8039.4	6888.0
12.5°	12583.8	12497.2	12624.6	12558.3	12410.6	12059.1	11468.1	10352.4	9313.0	8839.2	7387.3
15°	12981.2	13042.3	13144.2	13327.6	13261.4	13128.9	12476.8	11513.9	10306.5	9771.6	7830.5
17.5°	13592.6	13424.4	13546.7	13776.0	13959.4	13898.2	13526.3	12354.6	11289.8	10632.6	8426.6
20°	14020.5	13923.7	13984.8	14249.8	14387.3	14733.8	14540.2	13455.0	12232.3	11539.4	9129.6
22.5°	15243.2	15100.6	14901.9	14942.6	14993.6	15238.1	15284.0	14662.4	13327.6	12594.0	9797.0
25°	16751.2	16618.8	16384.4	16145.0	15997.2	15951.4	16109.3	15610.0	14377.1	13618.0	10515.4
27.5°	18412.1	18187.9	18040.2	17546.0	17148.6	17087.5	17011.1	16741.1	15620.2	14800.0	11325.4
30°	20027.1	19848.8	19650.1	18860.4	18447.8	18381.5	18004.5	18081.0	16970.3	16058.4	12242.5
32.5°	21249.8	21265.1	20811.7	20215.6	19828.4	19476.9	19339.3	19558.4	18702.5	17968.9	13266.5
35°	22238.2	22284.0	21851.0	21311.0	20893.2	21137.7	21076.6	21178.5	20770.9	19874.3	14458.6
37.5°	23201.1	22971.8	22508.2	22248.4	22029.3	22431.8	22951.4	23038.1	23114.5	22059.9	15844.4
40°	23359.0	23379.4	23109.4	23292.8	23017.7	23623.9	24831.4	24719.3	25030.1	24107.9	17347.3
42.5°	23134.9	23180.7	23287.7	23547.5	24209.8	24938.4	26731.7	26273.2	26650.2	25829.9	18809.5
45°	22768.0	22579.5	22712.0	23700.4	24846.7	26466.8	28469.0	28112.3	27990.1	27302.3	20551.9
47.5°	21015.5	21209.1	21621.7	22839.4	24561.4	26731.7	29701.9	29620.4	29987.2	29503.2	22136.3
50°	18585.3	18508.9	19303.7	20674.1	22895.4	26212.0	29635.6	30374.4	31164.0	30491.5	22844.5
52.5°	13918.6	14326.2	15008.9	16710.5	19879.4	23379.4	28188.8	29421.7	30063.6	29920.9	22273.9
55°	8798.5	8920.8	9333.4	11356.0	14209.0	18763.6	24164.0	27022.1	28168.4	28703.3	21749.1
57.5°	4274.4	4045.2	4549.5	6174.7	8207.5	12619.5	18636.3	23537.3	26028.6	26996.6	20607.9
60°	2231.5	2318.1	2516.8	3097.6	4243.9	6551.7	11615.8	15686.5	19492.2	20979.8	15620.2
62.5°	1849.4	1879.9	2012.4	2302.8	2822.4	3770.0	5930.2	7647.1	9939.7	11279.6	8885.1
65°	1569.2	1584.4	1727.1	1920.7	2251.8	2654.3	3051.7	3194.4	3866.8	3968.7	3158.7
67.5°	1309.3	1324.6	1477.5	1660.9	1874.8	1981.8	2083.7	2073.5	2149.9	2119.4	2114.3
70°	1008.7	1024.0	1182.0	1375.6	1482.5	1421.4	1737.3	1808.6	1839.2	1864.6	1905.4
72.5°	728.5	759.1	881.4	1018.9	962.9	1105.5	1431.6	1538.6	1579.3	1594.6	1645.6
75°	529.8	540.0	570.6	529.8	611.4	769.3	1008.7	1141.2	1192.2	1207.4	1283.9
77.5°	234.4	239.4	244.5	305.7	392.3	478.9	601.2	708.2	779.5	799.9	820.2
80°	122.3	127.4	157.9	208.9	280.2	351.5	438.1	499.3	545.1	550.2	570.6
82.5°	76.4	81.5	112.1	147.7	198.7	259.8	321.0	371.9	407.6	412.7	417.8
85°	35.7	45.9	66.2	91.7	132.5	168.1	173.2	147.7	157.9	163.0	152.8
87.5°	10.2	15.3	20.4	15.3	20.4	20.4	25.5	30.6	30.6	30.6	35.7
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°	5731.5	5731.5	5731.5	5731.5	5731.5	5731.5	5731.5	5731.5	5731.5	5731.5	5731.5
2.5°	5823.2	5777.3	5599.0	5532.8	5359.6	5390.2	5298.4	5293.4	5273.0	5267.9	5262.8
5°	5965.8	5823.2	5609.2	5446.2	5349.4	5339.2	5273.0	5273.0	5293.4	5308.6	5273.0
7.5°	6200.2	6037.2	5675.5	5522.6	5436.0	5420.7	5374.9	5339.2	5385.1	5369.8	5329.0
10°	6470.2	6184.9	5802.8	5670.4	5527.7	5492.0	5492.0	5507.3	5430.9	5456.4	5415.6
12.5°	6770.8	6388.7	5965.8	5813.0	5644.9	5624.5	5614.3	5502.2	5543.0	5522.6	5420.7
15°	7152.9	6623.1	6174.7	5914.9	5772.3	5680.5	5548.1	5527.7	5502.2	5451.3	5405.4
17.5°	7565.6	6877.8	6271.5	5945.5	5731.5	5665.3	5563.4	5456.4	5380.0	5390.2	5354.5
20°	7917.1	7112.1	6307.2	5976.0	5700.9	5573.6	5415.6	5349.4	5267.9	5262.8	5257.7
22.5°	8334.9	7428.0	6358.1	5894.5	5609.2	5476.8	5369.8	5252.6	5196.6	5125.2	5160.9
25°	8834.1	7550.3	6368.3	5848.7	5543.0	5308.6	5252.6	5125.2	5104.9	5003.0	5023.3
27.5°	9195.9	7616.5	6286.8	5706.0	5390.2	5211.8	5109.9	5018.2	4982.6	4906.2	4885.8
30°	9679.9	7718.4	6113.6	5527.7	5237.3	5038.6	4977.5	4957.1	4855.2	4773.7	4763.5
32.5°	10230.1	7784.6	6001.5	5344.3	5079.4	4926.5	4957.1	4860.3	4732.9	4661.6	4641.2
35°	10668.2	7810.1	5721.3	5135.4	4972.4	4875.6	4839.9	4819.5	4636.1	4569.9	4519.0
37.5°	11335.6	7754.1	5486.9	4987.7	4855.2	4819.5	4789.0	4651.4	4442.5	4345.7	4274.4
40°	12115.1	7738.8	5186.4	4778.8	4743.1	4783.9	4692.2	4478.2	4187.8	4080.8	4029.9
42.5°	12864.0	7845.8	4997.9	4666.7	4620.9	4636.1	4508.8	4187.8	4045.2	3984.0	3902.5
45°	14117.3	8069.9	4687.1	4493.5	4473.1	4462.9	4310.1	3973.8	3892.3	3815.9	3800.6
47.5°	15248.3	7922.2	4488.4	4315.2	4335.6	4279.5	3953.5	3846.5	3754.8	3678.3	3652.9
50°	15314.6	7570.7	4208.2	4177.6	4182.7	4085.9	3775.1	3703.8	3586.6	3535.7	3500.0
52.5°	14968.1	6995.0	3948.4	3958.6	3973.8	3815.9	3556.1	3505.1	3408.3	3337.0	3316.6
55°	13995.0	6098.3	3693.6	3734.4	3775.1	3474.6	3393.0	3265.7	3189.3	3087.4	3092.5
57.5°	12329.1	4911.3	3337.0	3403.2	3489.8	3158.7	3097.6	2939.6	2827.5	2746.0	2735.8
60°	8263.5	3494.9	2802.1	2827.5	3021.1	2888.7	2883.6	2725.6	2572.8	2501.5	2460.7
62.5°	4875.6	2669.6	2420.0	2394.5	2389.4	2465.8	2593.2	2537.1	2338.4	2200.9	2241.7
65°	2552.4	2307.9	2251.8	2165.2	2114.3	2093.9	2190.7	2216.2	2083.7	1936.0	1925.8
67.5°	2144.9	2144.9	2099.0	2068.4	1997.1	1910.5	1849.4	1767.8	1747.5	1706.7	1655.8
70°	1951.3	2002.2	1986.9	1915.6	1854.5	1757.7	1599.7	1467.3	1339.9	1294.0	1324.6
72.5°	1701.6	1752.6	1752.6	1716.9	1635.4	1487.6	1334.8	1182.0	1075.0	993.5	983.3
75°	1309.3	1334.8	1395.9	1355.2	1248.2	1156.5	998.6	840.6	738.7	662.3	647.0
77.5°	835.5	876.3	876.3	871.2	794.8	708.2	606.3	494.2	417.8	361.7	346.4
80°	555.3	580.8	601.2	580.8	529.8	463.6	387.2	310.8	254.7	208.9	198.7
82.5°	407.6	438.1	453.4	433.0	382.1	331.2	275.1	219.1	163.0	127.4	117.2
85°	157.9	163.0	183.4	219.1	214.0	208.9	168.1	122.3	91.7	66.2	61.1
87.5°	40.8	35.7	40.8	40.8	35.7	30.6	30.6	30.6	30.6	15.3	20.4
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)