

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: P532648

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
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-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31041 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

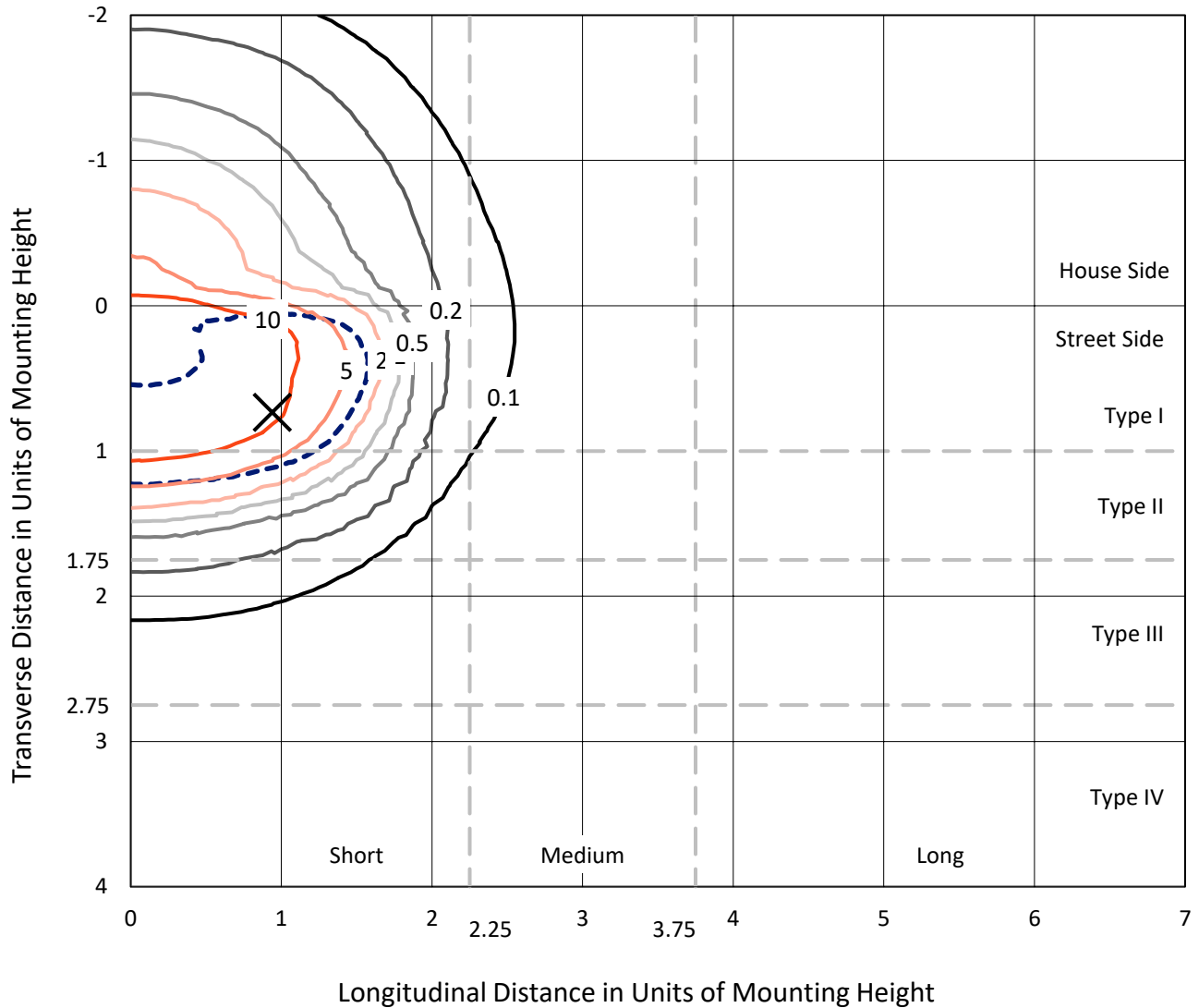
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

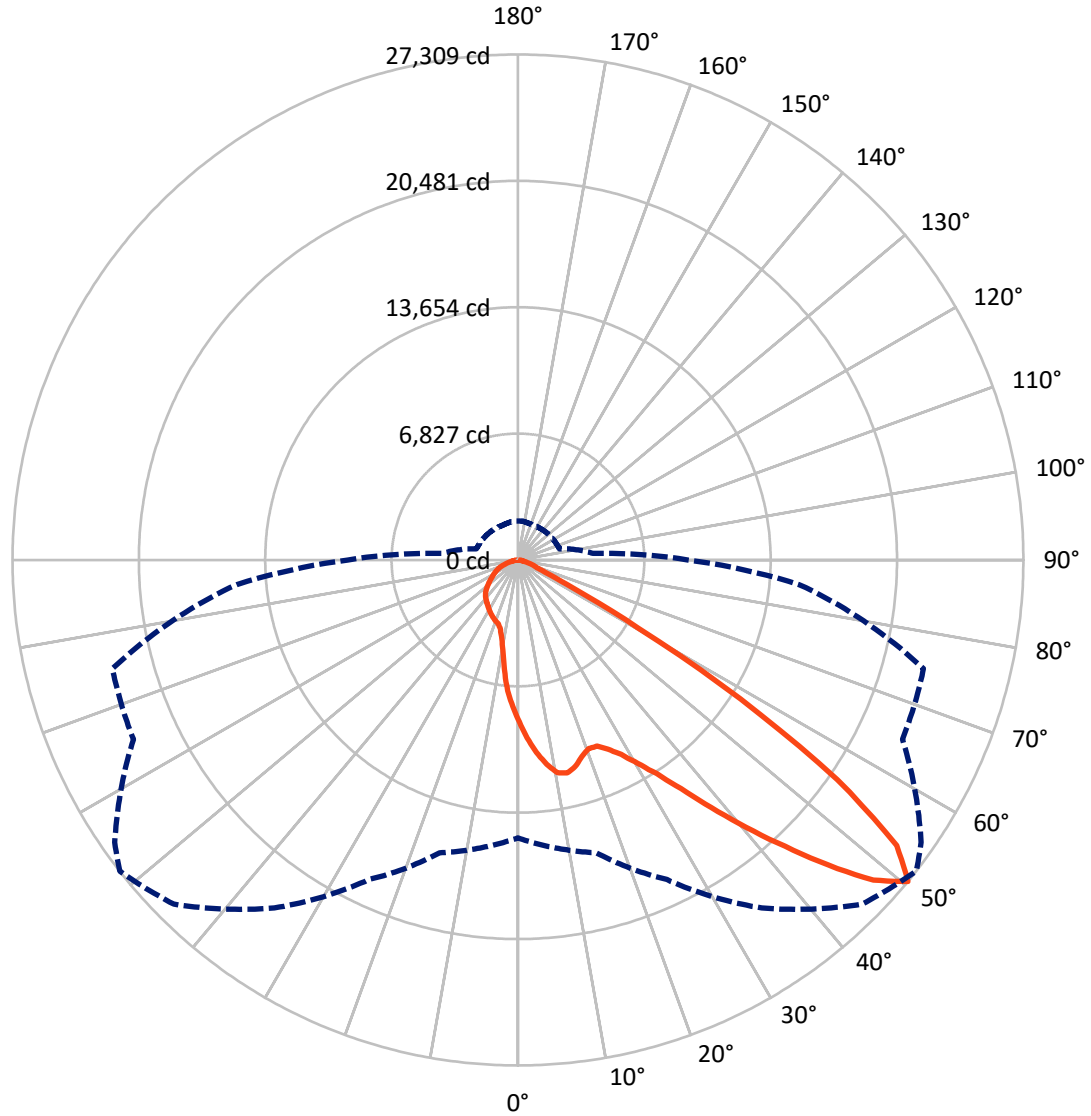
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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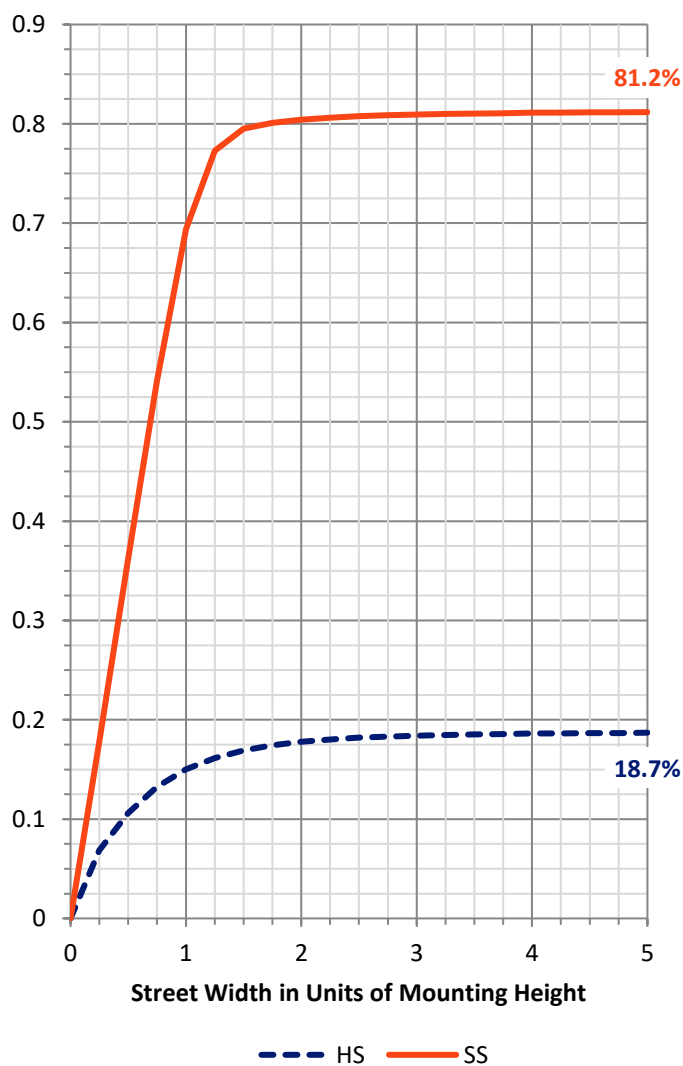
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5835.0	0.0	5835.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	25206.0	0.0	25206.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	31041.0	0.0	31041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	806.5	2.6
10°-20°	2161.6	7.0
20°-30°	3641.1	11.7
30°-40°	6110.0	19.7
40°-50°	9346.8	30.1
50°-60°	6814.6	22.0
60°-70°	1516.6	4.9
70°-80°	547.0	1.8
80°-90°	96.8	0.3
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°	31041.0	100.0
0°-180°	31041.0	100.0

Coefficient of Utilization



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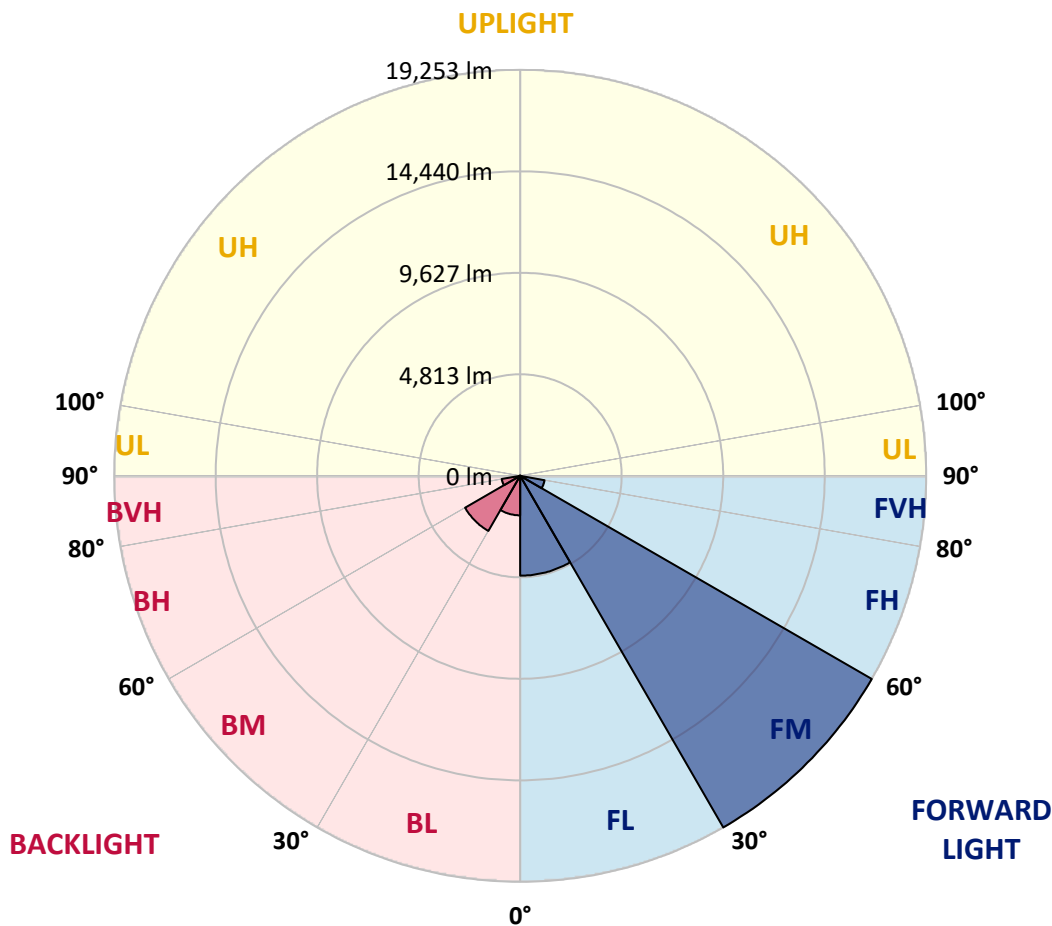
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4734.8	15.3			
FM	(30°-60°)	19253.2	62.0			
FH	(60°-80°)	1174.6	3.8			G1/1800
FVH	(80°-90°)	43.4	0.1			G1/100
BL	(0°-30°)	1874.3	6.0	B3/2500		
BM	(30°-60°)	3018.2	9.7	B3/5000		
BH	(60°-80°)	889.0	2.9	B2/1000		G2/1000
BVH	(80°-90°)	53.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8749.9	8749.9	8749.9	8749.9	8749.9	8749.9	8749.9	8749.9	8749.9	8749.9	8749.9
2.5°	10302.4	10104.1	10126.6	9984.4	9831.1	9786.2	9629.1	9479.4	9367.2	9127.8	8907.1
5°	11260.1	11200.2	11110.4	10998.2	10882.3	10597.9	10437.1	10250.0	9838.5	9468.2	9101.6
7.5°	11398.5	11387.3	11435.9	11435.9	11477.1	11368.6	11140.4	11009.4	10571.8	9969.5	9288.6
10°	10425.9	10459.5	10695.2	11002.0	11428.4	11724.0	11686.5	11652.9	11174.0	10351.0	9509.3
12.5°	9651.5	9576.7	9715.1	9977.0	10616.6	11331.2	11813.7	11817.5	11694.0	10960.8	9670.2
15°	9213.8	9266.2	9303.6	9427.0	9909.6	10736.4	11585.5	11836.2	12378.6	11391.0	9924.6
17.5°	9494.4	9318.6	9311.1	9341.0	9587.9	10208.9	11162.8	11593.0	12752.7	11944.7	10238.8
20°	9861.0	9857.2	9752.5	9715.1	9711.4	10265.0	10886.0	11469.6	12951.0	12662.9	10556.8
22.5°	10504.4	10504.4	10332.3	10250.0	10074.2	10526.9	10923.4	11319.9	13280.2	13156.7	10710.2
25°	11581.8	11406.0	11110.4	10908.4	10807.4	10968.3	11319.9	11675.3	13568.2	13680.4	11028.1
27.5°	12576.9	12300.0	12154.2	11806.3	11671.6	11578.1	11899.8	12258.9	13904.9	14496.0	11200.2
30°	13706.6	13658.0	13396.1	12947.2	12614.3	12442.2	12737.7	13093.1	14522.1	15330.2	11596.8
32.5°	15726.7	15285.3	14929.9	14380.0	13837.6	13470.9	13762.7	13998.4	15547.1	16201.8	12030.7
35°	17907.6	17765.5	17152.0	16160.6	15330.2	15001.0	15173.1	15348.9	16740.5	17533.6	12760.2
37.5°	20051.2	19856.6	19351.6	18517.4	17507.4	16837.7	16961.2	17166.9	18079.7	19329.2	13650.5
40°	21592.4	21353.0	21098.6	20975.2	19972.6	19056.1	18985.0	19037.4	19890.3	21012.6	14638.1
42.5°	21704.6	22000.2	22078.7	22576.3	22340.6	21588.7	21151.0	21162.2	21618.6	22677.3	15636.9
45°	21469.0	21195.9	21775.7	23133.7	23911.8	24263.4	23526.5	23432.9	22688.5	23642.4	16134.5
47.5°	18996.2	19071.1	20051.2	22198.4	24446.7	26017.9	25845.8	25535.3	23260.9	23608.8	16055.9
50°	15015.9	15468.6	16377.6	19052.4	22950.4	26294.7	27308.5	26590.3	22920.4	22681.0	15255.4
52.5°	9999.4	10186.4	10785.0	14237.8	18453.8	23504.0	25625.1	25789.7	22606.2	21465.2	14241.6
55°	4451.7	4436.7	5278.4	7436.9	11578.1	17885.2	20937.8	21940.3	21397.9	20227.0	13254.0
57.5°	1885.4	1949.0	2293.2	3213.4	5693.6	10792.5	14185.5	15064.6	16456.2	16609.6	10167.7
60°	1275.6	1283.1	1376.6	1608.6	2382.9	5068.9	7440.6	8495.6	9490.6	9423.3	5394.4
62.5°	1002.6	1028.7	1099.8	1193.3	1414.1	2300.6	3329.4	3916.7	3980.3	3348.1	2046.3
65°	856.7	860.4	931.5	1010.0	1107.3	1339.2	1604.8	1634.8	1653.5	1593.6	1503.8
67.5°	707.0	714.5	770.6	860.4	950.2	1025.0	1099.8	1137.2	1223.3	1391.6	1369.2
70°	561.1	572.4	621.0	695.8	778.1	823.0	916.5	950.2	1028.7	1159.7	1212.0
72.5°	426.5	430.2	471.4	523.7	598.5	643.4	722.0	759.4	811.8	924.0	972.6
75°	306.8	318.0	347.9	374.1	385.3	415.2	490.1	531.2	606.0	654.7	658.4
77.5°	160.9	168.3	175.8	175.8	213.2	269.3	318.0	340.4	392.8	430.2	411.5
80°	63.6	67.3	86.0	116.0	149.6	194.5	228.2	239.4	284.3	306.8	318.0
82.5°	37.4	41.1	56.1	82.3	108.5	138.4	164.6	175.8	205.7	231.9	239.4
85°	18.7	22.4	33.7	52.4	71.1	86.0	82.3	78.6	78.6	74.8	78.6
87.5°	7.5	7.5	11.2	11.2	11.2	15.0	18.7	18.7	18.7	22.4	22.4
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°	8749.9	8749.9	8749.9	8749.9	8749.9	8749.9	8749.9	8749.9	8749.9	8749.9	8749.9
2.5°	8761.2	8611.5	8473.1	8218.7	7941.9	7863.4	7541.6	7425.7	7343.4	7246.1	7216.2
5°	8806.1	8607.8	8162.6	7650.1	7242.4	6718.6	6374.5	6004.1	5734.8	5667.4	5648.7
7.5°	8899.6	8559.2	7792.3	7017.9	6183.7	5472.9	4930.5	4638.7	4380.6	4365.6	4339.4
10°	9004.3	8413.3	7388.3	6172.5	5106.3	4447.9	4122.5	3995.3	3931.7	3916.7	3909.2
12.5°	9090.4	8383.3	6935.6	5349.5	4343.2	3946.6	3849.4	3838.2	3864.3	3871.8	3886.8
15°	9127.8	8263.6	6389.4	4612.5	3868.1	3722.2	3763.3	3808.2	3826.9	3875.6	3838.2
17.5°	9198.9	8110.3	5716.1	4028.9	3602.5	3628.7	3699.7	3752.1	3782.0	3815.7	3767.1
20°	9236.3	7971.8	5083.9	3681.0	3509.0	3557.6	3654.9	3696.0	3733.4	3748.4	3692.3
22.5°	9202.6	7687.5	4526.5	3400.5	3419.2	3482.8	3568.8	3613.7	3591.3	3531.4	3497.7
25°	9112.8	7287.3	3946.6	3220.9	3292.0	3404.2	3471.5	3437.9	3396.7	3363.1	3351.8
27.5°	9109.1	6797.2	3527.7	3056.3	3183.5	3336.9	3314.4	3284.5	3303.2	3277.0	3247.1
30°	9127.8	6322.1	3183.5	2962.8	3104.9	3179.8	3205.9	3176.0	3198.5	3149.8	3164.8
32.5°	9030.5	5858.2	2959.0	2854.3	3011.4	3007.7	3093.7	3116.2	3063.8	2962.8	2977.7
35°	9071.7	5484.1	2768.3	2805.7	2906.7	2906.7	2974.0	2947.8	2809.4	2749.6	2764.5
37.5°	9356.0	5117.5	2674.7	2738.3	2805.7	2835.6	2813.1	2700.9	2667.3	2667.3	2674.7
40°	9625.3	4803.3	2618.6	2723.4	2712.1	2730.9	2566.3	2577.5	2577.5	2581.2	2562.5
42.5°	9864.7	4590.1	2573.7	2633.6	2652.3	2555.0	2454.0	2442.8	2469.0	2465.2	2450.3
45°	9950.8	4414.3	2510.1	2532.6	2547.5	2386.7	2338.1	2315.6	2345.5	2356.8	2371.7
47.5°	9621.6	4268.4	2439.1	2394.2	2364.2	2259.5	2195.9	2154.8	2192.2	2255.8	2270.7
50°	9198.9	4077.6	2326.8	2240.8	2177.2	2132.3	2087.4	2046.3	2072.5	2117.3	2106.1
52.5°	8574.1	3778.3	2184.7	2094.9	1986.4	1997.6	1956.5	1934.0	1949.0	1949.0	1937.8
55°	7683.8	3104.9	1945.3	1881.7	1791.9	1821.8	1829.3	1799.4	1769.4	1795.6	1773.2
57.5°	5244.7	2192.2	1735.8	1735.8	1646.0	1687.1	1683.4	1612.3	1541.2	1548.7	1533.8
60°	3033.9	1747.0	1601.1	1586.1	1492.6	1526.3	1533.8	1485.1	1376.6	1384.1	1369.2
62.5°	1724.6	1492.6	1399.1	1376.6	1357.9	1387.9	1387.9	1324.3	1230.8	1238.2	1223.3
65°	1466.4	1384.1	1249.5	1245.7	1238.2	1245.7	1215.8	1148.5	1066.2	1032.5	1036.2
67.5°	1331.8	1279.4	1148.5	1114.8	1092.3	1088.6	1032.5	968.9	931.5	901.6	897.8
70°	1167.2	1126.0	1028.7	983.9	961.4	909.0	852.9	811.8	759.4	744.4	759.4
72.5°	924.0	920.3	882.9	834.2	785.6	744.4	695.8	639.7	591.1	579.8	553.7
75°	639.7	647.2	654.7	647.2	606.0	553.7	497.5	452.6	392.8	359.1	351.6
77.5°	419.0	430.2	441.4	426.5	400.3	351.6	314.2	258.1	213.2	187.0	183.3
80°	306.8	321.7	329.2	318.0	288.0	250.6	209.5	164.6	130.9	108.5	108.5
82.5°	235.7	250.6	258.1	239.4	209.5	179.6	149.6	116.0	89.8	71.1	67.3
85°	82.3	78.6	93.5	97.3	116.0	108.5	89.8	67.3	52.4	37.4	33.7
87.5°	22.4	22.4	26.2	26.2	22.4	18.7	18.7	18.7	15.0	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

(END OF REPORT)