

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: P534156

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534156
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-SA9C-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA 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: 42277 lumens
Efficiency: N/A
Efficacy: 87.9 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

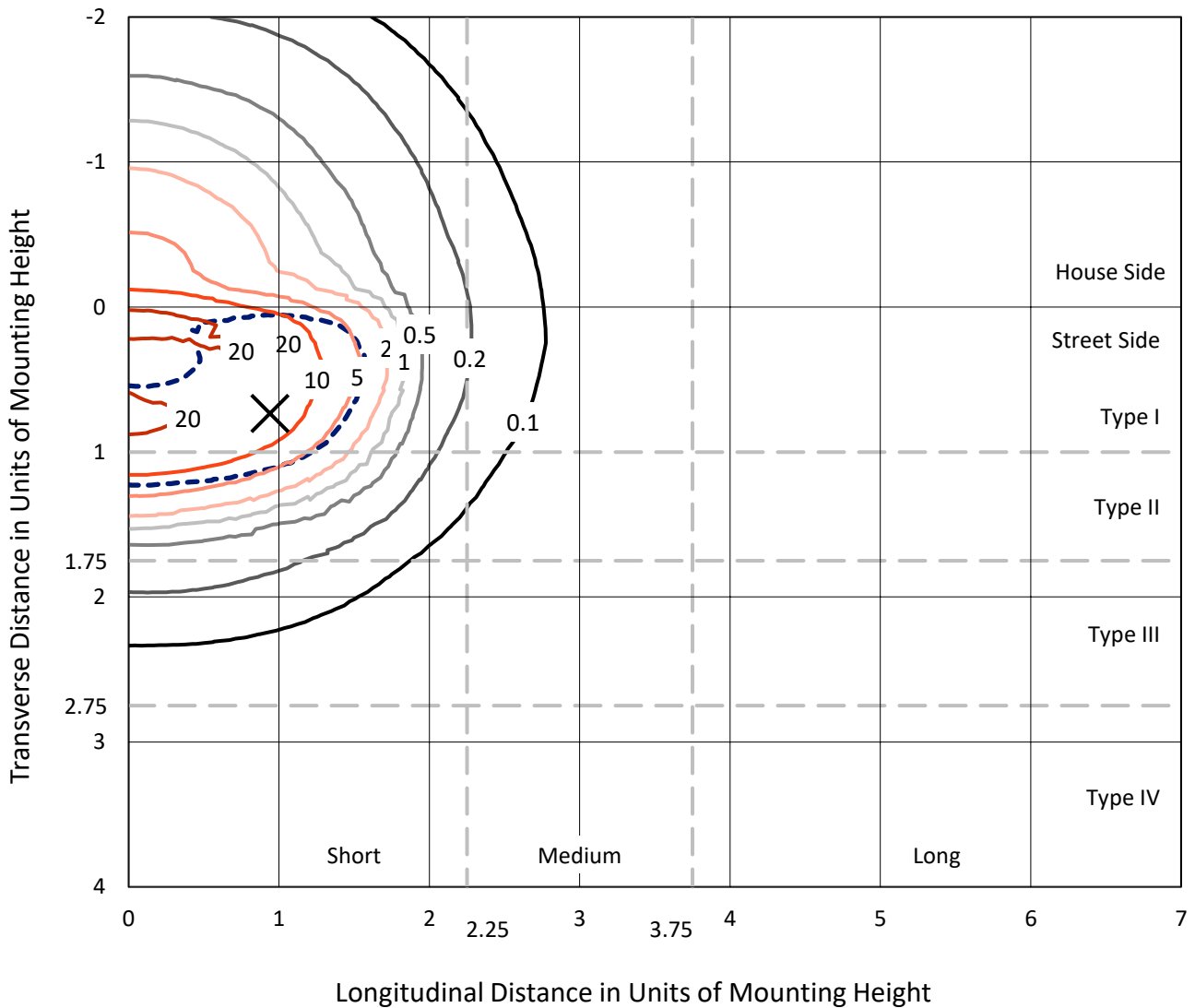
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

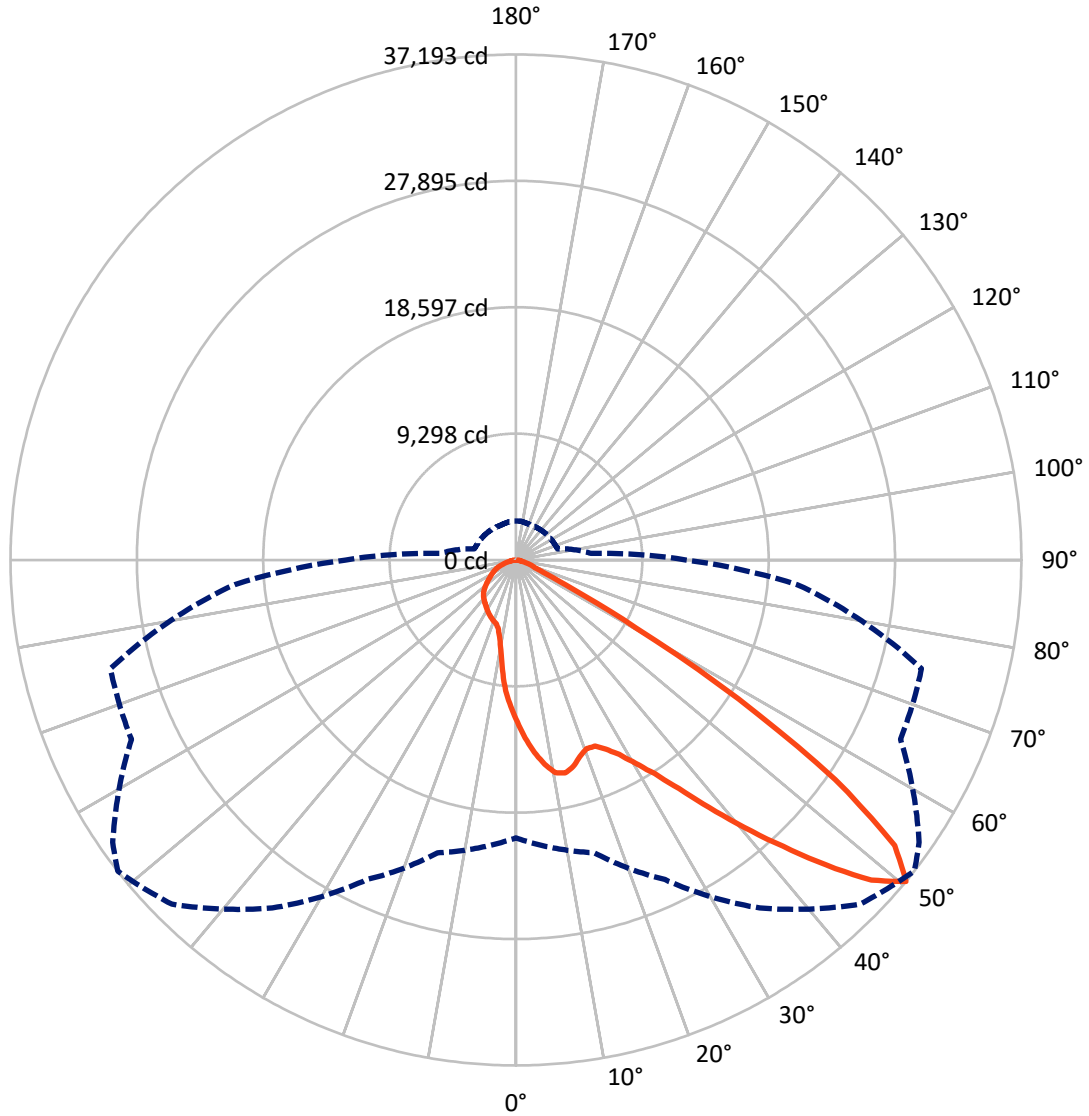
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.4 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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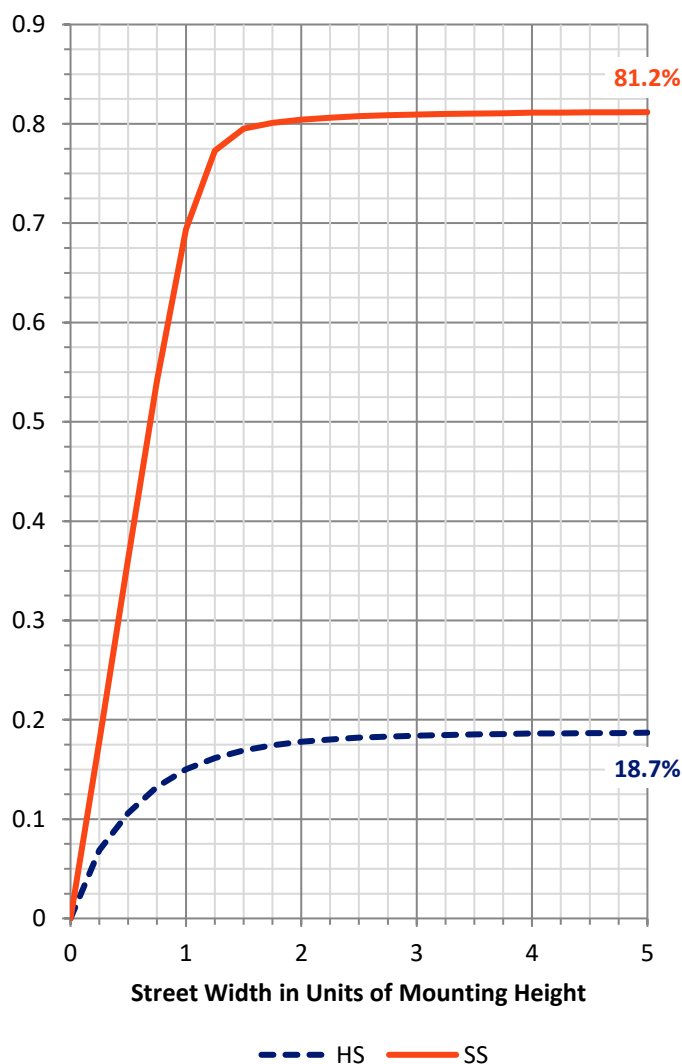
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7947.1	0.0	7947.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	34329.9	0.0	34329.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	42277.0	0.0	42277.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1098.4	2.6
10°-20°	2944.0	7.0
20°-30°	4959.0	11.7
30°-40°	8321.7	19.7
40°-50°	12730.1	30.1
50°-60°	9281.3	22.0
60°-70°	2065.5	4.9
70°-80°	745.0	1.8
80°-90°	131.9	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°	42277.0	100.0
0°-180°	42277.0	100.0

Coefficient of Utilization



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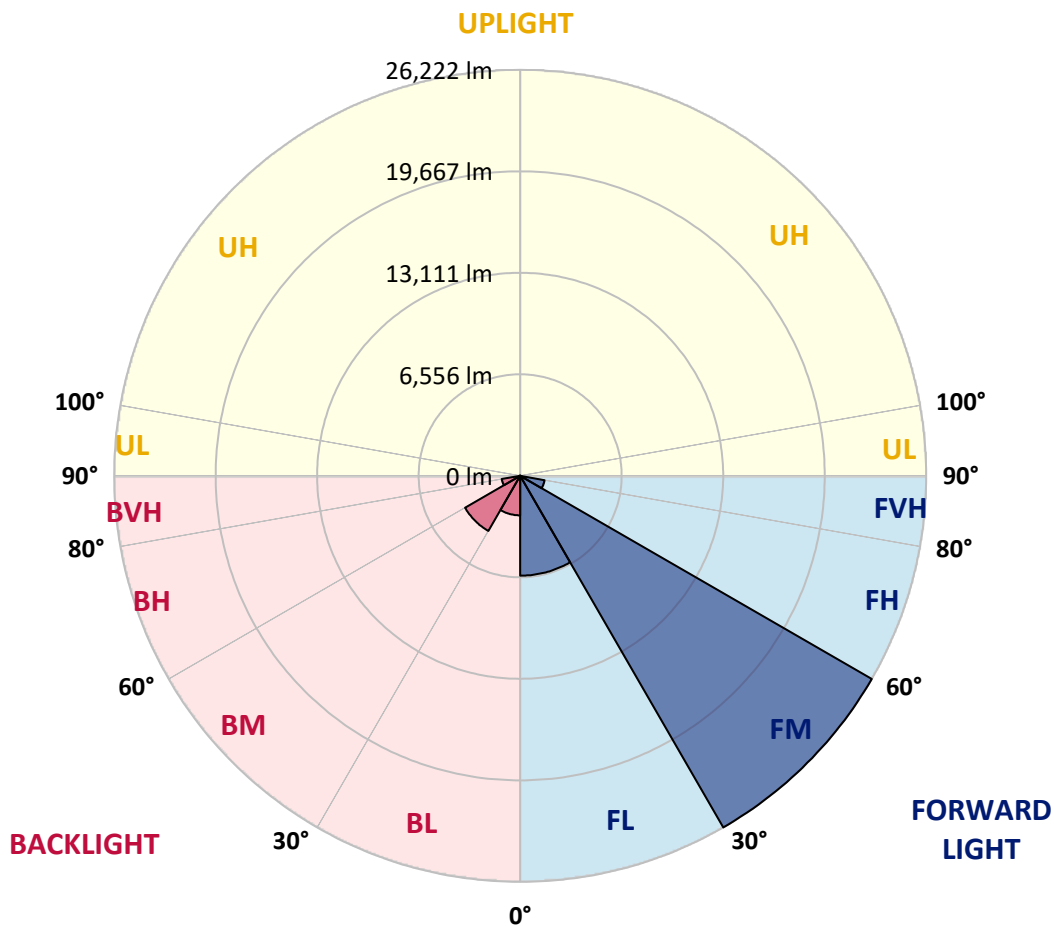
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6448.7	15.3			
FM (30°-60°)	26222.3	62.0			
FH (60°-80°)	1599.8	3.8			G1/1800
FVH (80°-90°)	59.1	0.1			G1/100
BL (0°-30°)	2552.8	6.0	B4/5000		
BM (30°-60°)	4110.8	9.7	B3/5000		
BH (60°-80°)	1210.8	2.9	B3/2500		G3/2500
BVH (80°-90°)	72.8	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°	52°	55°	65°	75°	85°
0°	11917.2	11917.2	11917.2	11917.2	11917.2	11917.2	11917.2	11917.2	11917.2	11917.2	11917.2
2.5°	14031.6	13761.6	13792.1	13598.5	13389.6	13328.5	13114.5	12910.7	12757.9	12431.8	12131.2
5°	15335.9	15254.4	15132.1	14979.3	14821.3	14434.1	14215.0	13960.3	13399.8	12895.4	12396.1
7.5°	15524.4	15509.2	15575.4	15575.4	15631.4	15483.7	15172.9	14994.6	14398.4	13578.2	12650.9
10°	14199.7	14245.6	14566.6	14984.4	15565.2	15967.7	15916.8	15870.9	15218.7	14097.8	12951.5
12.5°	13145.1	13043.2	13231.7	13588.3	14459.6	15432.7	16090.0	16095.1	15926.9	14928.3	13170.6
15°	12549.0	12620.3	12671.2	12839.4	13496.6	14622.6	15779.2	16120.6	16859.3	15514.2	13517.0
17.5°	12931.1	12691.6	12681.4	12722.2	13058.5	13904.2	15203.5	15789.4	17368.8	16268.3	13945.0
20°	13430.4	13425.3	13282.6	13231.7	13226.6	13980.7	14826.4	15621.2	17638.9	17246.5	14378.1
22.5°	14306.7	14306.7	14072.4	13960.3	13720.8	14337.3	14877.4	15417.4	18087.2	17919.1	14587.0
25°	15774.1	15534.6	15132.1	14857.0	14719.4	14938.5	15417.4	15901.5	18479.5	18632.4	15020.0
27.5°	17129.4	16752.3	16553.6	16079.8	15896.4	15769.0	16207.2	16696.3	18938.1	19743.1	15254.4
30°	18668.0	18601.8	18245.2	17633.8	17180.3	16945.9	17348.4	17832.5	19778.8	20879.3	15794.5
32.5°	21419.3	20818.1	20334.1	19585.1	18846.4	18347.1	18744.5	19065.5	21174.8	22066.4	16385.5
35°	24389.7	24196.1	23360.5	22010.4	20879.3	20430.9	20665.3	20904.8	22800.1	23880.2	17379.0
37.5°	27309.2	27044.2	26356.4	25220.2	23844.6	22932.6	23100.7	23380.9	24624.1	26325.8	18591.6
40°	29408.3	29082.2	28735.8	28567.6	27202.2	25953.9	25857.1	25928.4	27090.1	28618.6	19936.7
42.5°	29561.1	29963.6	30070.6	30748.3	30427.3	29403.2	28807.1	28822.4	29444.0	30885.8	21297.1
45°	29240.2	28868.2	29657.9	31507.4	32567.2	33046.1	32042.4	31915.0	30901.1	32200.3	21974.7
47.5°	25872.4	25974.3	27309.2	30233.7	33295.8	35435.7	35201.3	34778.4	31680.7	32154.5	21867.7
50°	20451.3	21067.8	22305.9	25948.8	31257.8	35812.7	37193.4	36215.2	31217.0	30890.9	20777.4
52.5°	13618.9	13873.7	14688.9	19391.5	25133.6	32011.8	34900.7	35124.9	30789.0	29235.1	19396.6
55°	6063.0	6042.7	7189.0	10128.8	15769.0	24359.2	28516.7	29882.1	29143.4	27548.6	18051.6
57.5°	2567.9	2654.5	3123.2	4376.6	7754.6	14699.1	19320.2	20517.5	22412.9	22621.8	13848.2
60°	1737.4	1747.6	1875.0	2190.8	3245.5	6903.7	10133.9	11570.7	12926.0	12834.3	7347.0
62.5°	1365.5	1401.1	1497.9	1625.3	1925.9	3133.4	4534.5	5334.5	5421.1	4560.0	2787.0
65°	1166.8	1171.8	1268.7	1375.6	1508.1	1824.0	2185.8	2226.5	2252.0	2170.5	2048.2
67.5°	963.0	973.1	1049.6	1171.8	1294.1	1396.0	1497.9	1548.9	1666.1	1895.3	1864.8
70°	764.2	779.5	845.8	947.7	1059.8	1120.9	1248.3	1294.1	1401.1	1579.4	1650.8
72.5°	580.8	585.9	642.0	713.3	815.2	876.3	983.3	1034.3	1105.6	1258.5	1324.7
75°	417.8	433.1	473.8	509.5	524.8	565.5	667.4	723.5	825.4	891.6	896.7
77.5°	219.1	229.3	239.5	239.5	290.4	366.8	433.1	463.6	535.0	585.9	560.4
80°	86.6	91.7	117.2	157.9	203.8	264.9	310.8	326.1	387.2	417.8	433.1
82.5°	50.9	56.0	76.4	112.1	147.8	188.5	224.2	239.5	280.2	315.9	326.1
85°	25.5	30.6	45.9	71.3	96.8	117.2	112.1	107.0	107.0	101.9	107.0
87.5°	10.2	10.2	15.3	15.3	15.3	20.4	25.5	25.5	25.5	30.6	30.6
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°	11917.2	11917.2	11917.2	11917.2	11917.2	11917.2	11917.2	11917.2	11917.2	11917.2	11917.2
2.5°	11932.5	11728.7	11540.2	11193.7	10816.7	10709.7	10271.5	10113.6	10001.5	9869.0	9828.2
5°	11993.6	11723.6	11117.3	10419.3	9863.9	9150.6	8681.9	8177.5	7810.6	7718.9	7693.4
7.5°	12121.0	11657.3	10612.9	9558.2	8422.0	7454.0	6715.2	6317.8	5966.2	5945.9	5910.2
10°	12263.6	11458.6	10062.6	8406.7	6954.7	6057.9	5614.7	5441.5	5354.8	5334.5	5324.3
12.5°	12380.8	11417.9	9446.1	7285.8	5915.3	5375.2	5242.7	5227.5	5263.1	5273.3	5293.7
15°	12431.8	11254.8	8702.2	6282.1	5268.2	5069.5	5125.6	5186.7	5212.2	5278.4	5227.5
17.5°	12528.6	11045.9	7785.1	5487.3	4906.5	4942.1	5038.9	5110.3	5151.0	5196.9	5130.7
20°	12579.5	10857.4	6924.1	5013.5	4779.1	4845.3	4977.8	5033.9	5084.8	5105.2	5028.8
22.5°	12533.7	10470.2	6164.9	4631.3	4656.8	4743.4	4860.6	4921.8	4891.2	4809.7	4763.8
25°	12411.4	9925.0	5375.2	4386.8	4483.6	4636.4	4728.2	4682.3	4626.3	4580.4	4565.1
27.5°	12406.3	9257.6	4804.6	4162.6	4335.8	4544.7	4514.2	4473.4	4498.9	4463.2	4422.5
30°	12431.8	8610.5	4335.8	4035.2	4228.8	4330.7	4366.4	4325.6	4356.2	4290.0	4310.4
32.5°	12299.3	7978.8	4030.1	3887.5	4101.5	4096.4	4213.6	4244.1	4172.8	4035.2	4055.6
35°	12355.4	7469.3	3770.3	3821.2	3958.8	3958.8	4050.5	4014.9	3826.3	3744.8	3765.2
37.5°	12742.6	6969.9	3642.9	3729.5	3821.2	3862.0	3831.4	3678.6	3632.7	3632.7	3642.9
40°	13109.4	6542.0	3566.5	3709.2	3693.9	3719.3	3495.2	3510.4	3510.4	3515.5	3490.1
42.5°	13435.5	6251.6	3505.4	3586.9	3612.3	3479.9	3342.3	3327.0	3362.7	3357.6	3337.2
45°	13552.7	6012.1	3418.7	3449.3	3469.7	3250.6	3184.4	3153.8	3194.6	3209.8	3230.2
47.5°	13104.3	5813.4	3321.9	3260.8	3220.0	3077.4	2990.8	2934.7	2985.7	3072.3	3092.7
50°	12528.6	5553.5	3169.1	3051.9	2965.3	2904.1	2843.0	2787.0	2822.6	2883.8	2868.5
52.5°	11677.7	5145.9	2975.5	2853.2	2705.4	2720.7	2664.7	2634.1	2654.5	2654.5	2639.2
55°	10465.1	4228.8	2649.4	2562.8	2440.5	2481.3	2491.5	2450.7	2409.9	2445.6	2415.0
57.5°	7143.2	2985.7	2364.1	2364.1	2241.8	2297.8	2292.7	2195.9	2099.1	2109.3	2088.9
60°	4132.0	2379.4	2180.7	2160.3	2032.9	2078.8	2088.9	2022.7	1875.0	1885.1	1864.8
62.5°	2348.8	2032.9	1905.5	1875.0	1849.5	1890.2	1890.2	1803.6	1676.3	1686.4	1666.1
65°	1997.2	1885.1	1701.7	1696.6	1686.4	1696.6	1655.9	1564.2	1452.1	1406.2	1411.3
67.5°	1813.8	1742.5	1564.2	1518.3	1487.7	1482.6	1406.2	1319.6	1268.7	1227.9	1222.8
70°	1589.6	1533.6	1401.1	1340.0	1309.4	1238.1	1161.7	1105.6	1034.3	1013.9	1034.3
72.5°	1258.5	1253.4	1202.4	1136.2	1069.9	1013.9	947.7	871.2	805.0	789.7	754.1
75°	871.2	881.4	891.6	881.4	825.4	754.1	677.6	616.5	535.0	489.1	478.9
77.5°	570.6	585.9	601.2	580.8	545.2	478.9	428.0	351.6	290.4	254.7	249.7
80°	417.8	438.2	448.4	433.1	392.3	341.4	285.3	224.2	178.3	147.8	147.8
82.5°	321.0	341.4	351.6	326.1	285.3	244.6	203.8	157.9	122.3	96.8	91.7
85°	112.1	107.0	127.4	132.5	157.9	147.8	122.3	91.7	71.3	50.9	45.9
87.5°	30.6	30.6	35.7	35.7	30.6	25.5	25.5	25.5	20.4	15.3	15.3
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)