

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: P533234

Luminaire Tested: **GALN-SA8C-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533234
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-SA8C-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 36673 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

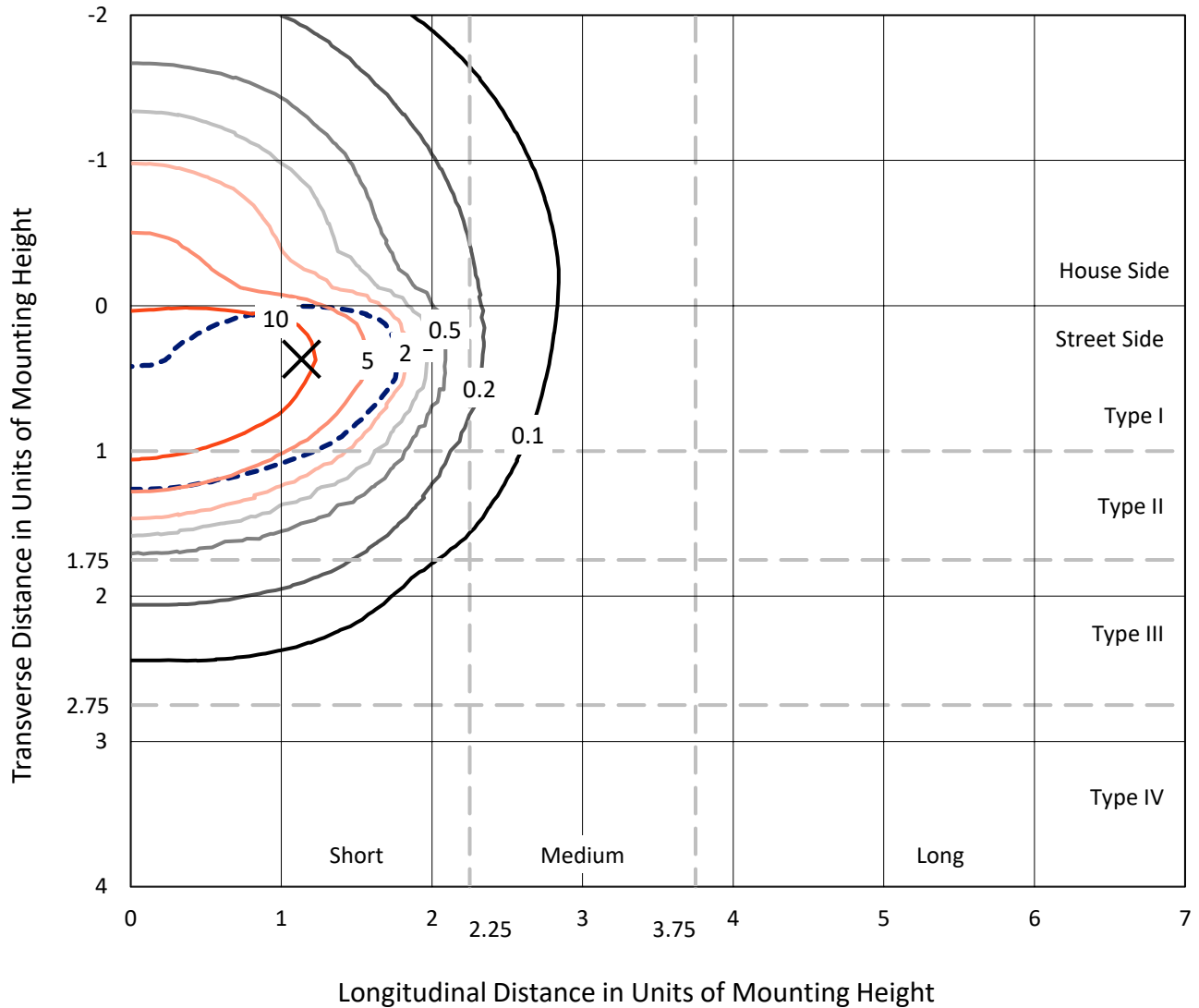
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

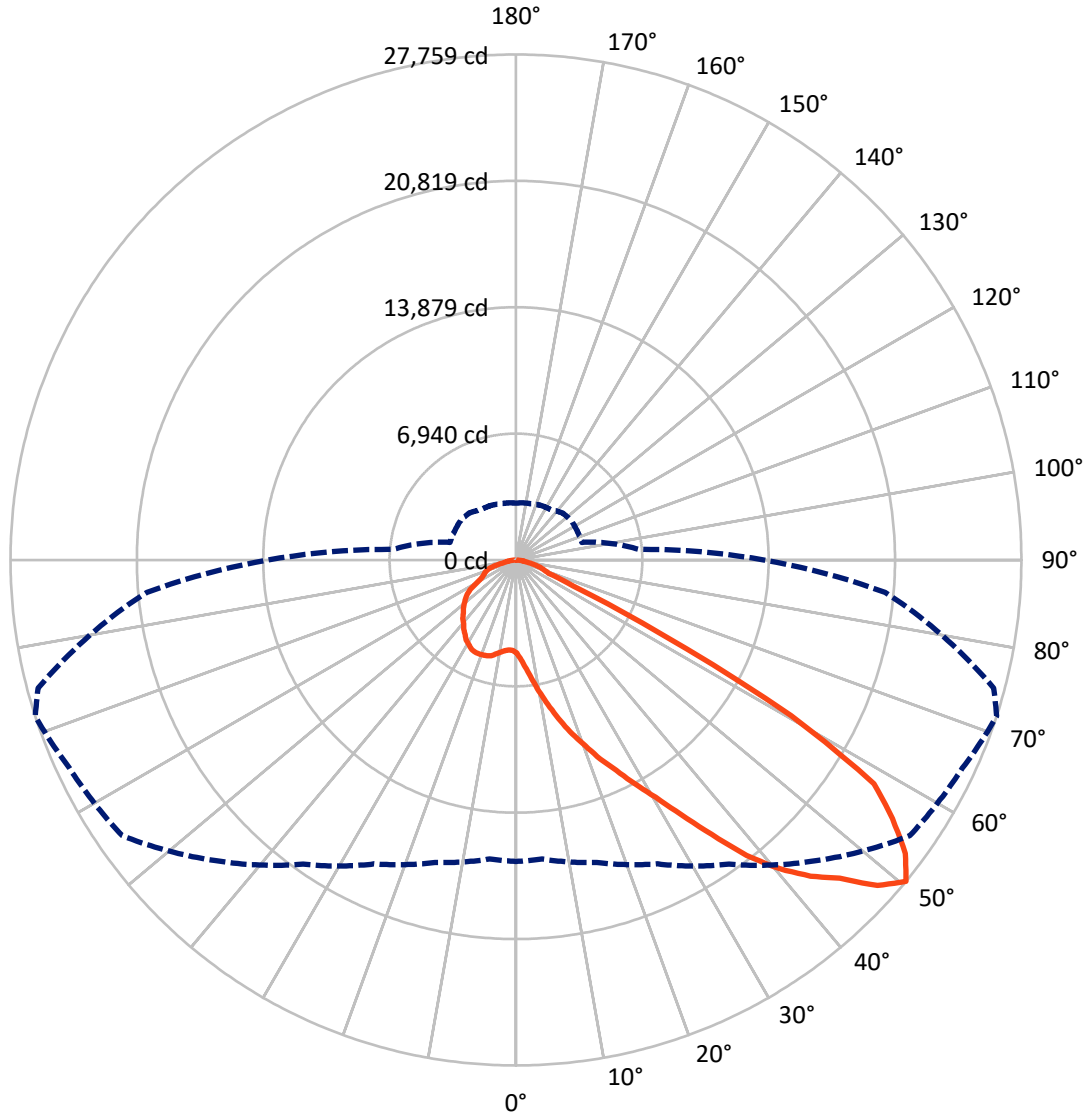
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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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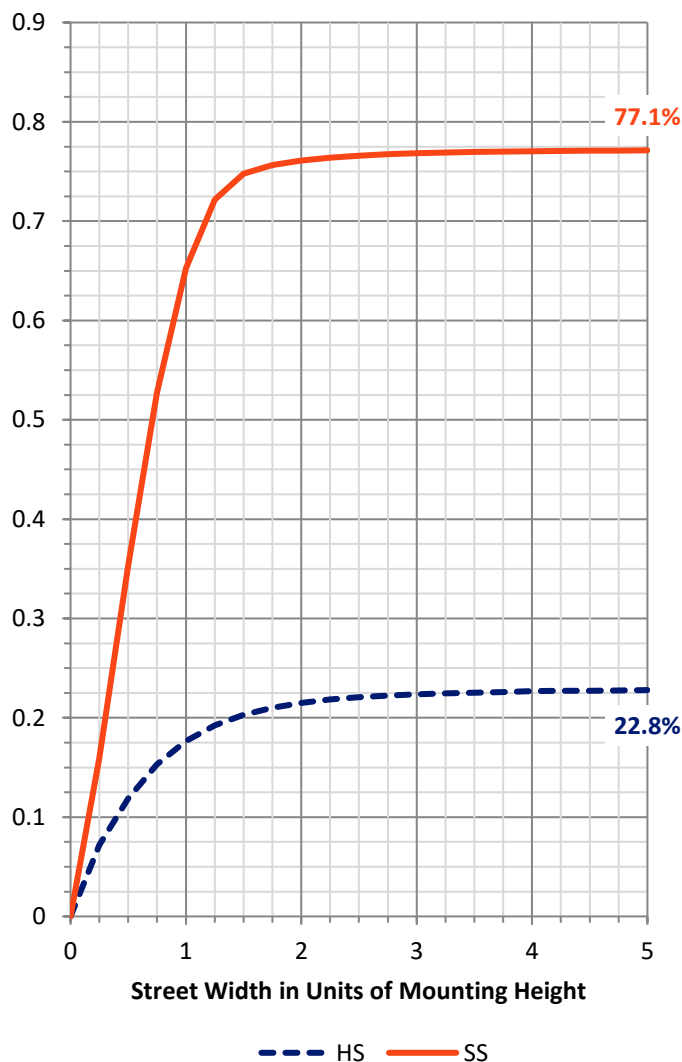
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8402.0	0.0	8402.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	28271.0	0.0	28271.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	36673.0	0.0	36673.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.5	1.6
10°-20°	2244.9	6.1
20°-30°	4352.6	11.9
30°-40°	7210.8	19.7
40°-50°	10089.5	27.5
50°-60°	8511.8	23.2
60°-70°	2594.4	7.1
70°-80°	910.2	2.5
80°-90°	158.2	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°	36673.0	100.0
0°-180°	36673.0	100.0



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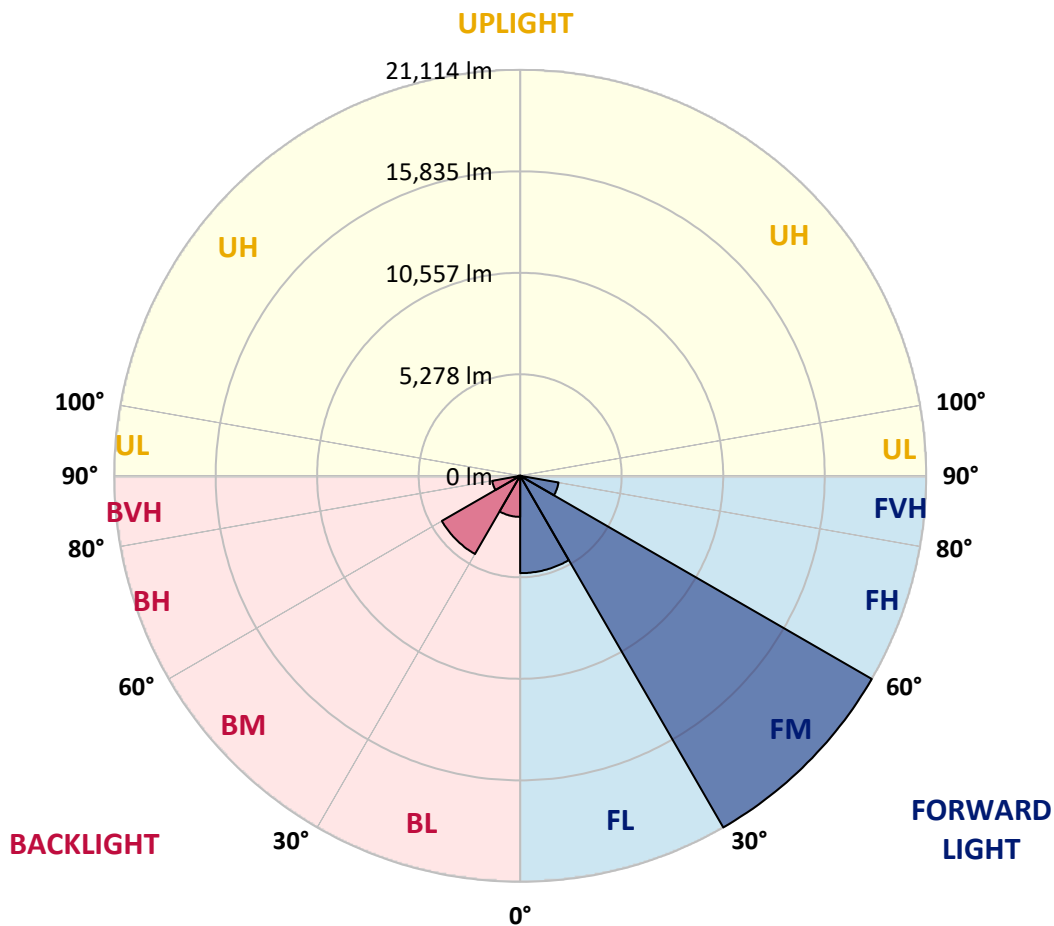
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5062.2	13.8			
FM (30°-60°)	21113.6	57.6			
FH (60°-80°)	2024.3	5.5			G2/5000
FVH (80°-90°)	70.9	0.2			G1/100
BL (0°-30°)	2135.8	5.8	B3/2500		
BM (30°-60°)	4698.5	12.8	B3/5000		
BH (60°-80°)	1480.3	4.0	B3/2500		G3/2500
BVH (80°-90°)	87.4	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2
2.5°	6566.4	6525.6	6403.0	6362.2	6217.0	5953.8	5863.0	5595.3	5481.8	5377.5	5254.9
5°	8304.4	8113.9	8100.2	7868.8	7533.0	7337.9	6757.0	6366.7	6008.2	5826.7	5490.9
7.5°	9411.7	9416.2	9416.2	9225.7	8957.9	8463.3	7941.4	7238.0	6698.0	6430.3	5858.5
10°	10464.5	10373.8	10323.8	10305.7	10124.2	9643.1	9085.0	8213.7	7474.0	7160.9	6135.3
12.5°	11208.7	11131.6	11245.0	11186.0	11054.4	10741.3	10214.9	9221.1	8295.4	7873.3	6580.0
15°	11562.7	11617.2	11707.9	11871.3	11812.3	11694.3	11113.4	10255.8	9180.3	8703.8	6974.8
17.5°	12107.3	11957.5	12066.4	12270.6	12434.0	12379.5	12048.3	11004.5	10056.1	9470.7	7505.8
20°	12488.4	12402.2	12456.7	12692.6	12815.2	13123.8	12951.3	11984.7	10895.6	10278.5	8132.0
22.5°	13577.5	13450.5	13273.5	13309.8	13355.2	13573.0	13613.9	13060.2	11871.3	11217.8	8726.5
25°	14920.8	14802.8	14594.0	14380.8	14249.2	14208.3	14349.0	13904.3	12806.1	12129.9	9366.3
27.5°	16400.2	16200.5	16068.9	15628.7	15274.7	15220.3	15152.2	14911.7	13913.4	13182.7	10087.9
30°	17838.7	17679.9	17502.9	16799.5	16431.9	16372.9	16037.1	16105.2	15115.9	14303.6	10904.7
32.5°	18927.8	18941.4	18537.5	18006.6	17661.7	17348.6	17226.1	17421.2	16658.8	16005.4	11816.8
35°	19808.2	19849.0	19463.3	18982.2	18610.1	18828.0	18773.5	18864.3	18501.2	17702.5	12878.7
37.5°	20665.8	20461.6	20048.7	19817.2	19622.1	19980.6	20443.5	20520.6	20588.7	19649.3	14113.0
40°	20806.5	20824.7	20584.1	20747.5	20502.5	21042.5	22118.0	22018.1	22295.0	21473.6	15451.7
42.5°	20606.8	20647.7	20743.0	20974.4	21564.3	22213.3	23810.6	23402.2	23738.0	23007.4	16754.1
45°	20280.1	20112.2	20230.2	21110.5	22131.6	23574.7	25358.1	25040.4	24931.5	24318.9	18306.1
47.5°	18719.0	18891.5	19259.1	20343.6	21877.5	23810.6	26456.3	26383.6	26710.4	26279.3	19717.4
50°	16554.4	16486.4	17194.3	18415.0	20393.5	23347.8	26397.3	27055.3	27758.6	27159.6	20348.2
52.5°	12397.7	12760.7	13368.8	14884.5	17707.1	20824.7	25108.5	26206.7	26778.4	26651.4	19839.9
55°	7837.0	7946.0	8313.5	10115.1	12656.3	16713.3	21523.5	24069.3	25090.3	25566.8	19372.5
57.5°	3807.3	3603.1	4052.4	5500.0	7310.6	11240.5	16599.8	20965.3	23184.4	24046.6	18356.0
60°	1987.6	2064.8	2241.7	2759.1	3780.1	5835.8	10346.5	13972.3	17362.2	18687.3	13913.4
62.5°	1647.3	1674.5	1792.5	2051.2	2514.0	3358.1	5282.2	6811.5	8853.5	10047.0	7914.2
65°	1397.7	1411.3	1538.4	1710.8	2005.8	2364.3	2718.2	2845.3	3444.3	3535.1	2813.5
67.5°	1166.3	1179.9	1316.0	1479.4	1670.0	1765.3	1856.0	1846.9	1915.0	1887.8	1883.2
70°	898.5	912.1	1052.8	1225.2	1320.5	1266.1	1547.4	1611.0	1638.2	1660.9	1697.2
72.5°	648.9	676.2	785.1	907.6	857.7	984.7	1275.2	1370.5	1406.8	1420.4	1465.8
75°	471.9	481.0	508.3	471.9	544.6	685.2	898.5	1016.5	1061.9	1075.5	1143.6
77.5°	208.7	213.3	217.8	272.3	349.4	426.6	535.5	630.8	694.3	712.5	730.6
80°	108.9	113.4	140.7	186.1	249.6	313.1	390.3	444.7	485.6	490.1	508.3
82.5°	68.1	72.6	99.8	131.6	177.0	231.4	285.9	331.3	363.0	367.6	372.1
85°	31.8	40.8	59.0	81.7	118.0	149.8	154.3	131.6	140.7	145.2	136.1
87.5°	9.1	13.6	18.2	13.6	18.2	18.2	22.7	27.2	27.2	27.2	31.8
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°	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2	5105.2
2.5°	5186.9	5146.0	4987.2	4928.2	4773.9	4801.2	4719.5	4714.9	4696.8	4692.2	4687.7
5°	5313.9	5186.9	4996.3	4851.1	4764.8	4755.8	4696.8	4696.8	4714.9	4728.5	4696.8
7.5°	5522.7	5377.5	5055.3	4919.1	4842.0	4828.4	4787.5	4755.8	4796.6	4783.0	4746.7
10°	5763.2	5509.1	5168.7	5050.7	4923.7	4891.9	4891.9	4905.5	4837.5	4860.1	4823.8
12.5°	6030.9	5690.6	5313.9	5177.8	5028.0	5009.9	5000.8	4901.0	4937.3	4919.1	4828.4
15°	6371.3	5899.3	5500.0	5268.6	5141.5	5059.8	4941.8	4923.7	4901.0	4855.6	4814.8
17.5°	6738.9	6126.2	5586.2	5295.8	5105.2	5046.2	4955.4	4860.1	4792.1	4801.2	4769.4
20°	7052.0	6335.0	5618.0	5323.0	5078.0	4964.5	4823.8	4764.8	4692.2	4687.7	4683.2
22.5°	7424.1	6616.3	5663.4	5250.4	4996.3	4878.3	4783.0	4678.6	4628.7	4565.2	4596.9
25°	7868.8	6725.2	5672.4	5209.6	4937.3	4728.5	4678.6	4565.2	4547.0	4456.3	4474.4
27.5°	8191.0	6784.2	5599.8	5082.5	4801.2	4642.3	4551.6	4469.9	4438.1	4370.0	4351.9
30°	8622.1	6875.0	5445.5	4923.7	4665.0	4488.0	4433.6	4415.4	4324.7	4252.1	4243.0
32.5°	9112.2	6934.0	5345.7	4760.3	4524.3	4388.2	4415.4	4329.2	4215.8	4152.2	4134.1
35°	9502.5	6956.7	5096.1	4574.3	4429.0	4342.8	4311.1	4292.9	4129.5	4070.5	4025.2
37.5°	10096.9	6906.8	4887.4	4442.7	4324.7	4292.9	4265.7	4143.1	3957.1	3870.9	3807.3
40°	10791.2	6893.1	4619.6	4256.6	4224.8	4261.1	4179.5	3988.9	3730.2	3634.9	3589.5
42.5°	11458.3	6988.4	4451.7	4156.8	4115.9	4129.5	4016.1	3730.2	3603.1	3548.7	3476.1
45°	12574.7	7188.1	4174.9	4002.5	3984.3	3975.2	3839.1	3539.6	3467.0	3398.9	3385.3
47.5°	13582.1	7056.5	3997.9	3843.6	3861.8	3811.9	3521.4	3426.2	3344.5	3276.4	3253.7
50°	13641.1	6743.4	3748.3	3721.1	3725.7	3639.4	3362.6	3299.1	3194.7	3149.3	3117.6
52.5°	13332.5	6230.6	3516.9	3526.0	3539.6	3398.9	3167.5	3122.1	3035.9	2972.4	2954.2
55°	12465.8	5431.9	3290.0	3326.3	3362.6	3094.9	3022.3	2908.8	2840.8	2750.0	2754.5
57.5°	10981.8	4374.6	2972.4	3031.4	3108.5	2813.5	2759.1	2618.4	2518.6	2446.0	2436.9
60°	7360.6	3113.0	2495.9	2518.6	2691.0	2573.0	2568.5	2427.8	2291.7	2228.1	2191.8
62.5°	4342.8	2377.9	2155.5	2132.8	2128.3	2196.4	2309.8	2259.9	2082.9	1960.4	1996.7
65°	2273.5	2055.7	2005.8	1928.6	1883.2	1865.1	1951.3	1974.0	1856.0	1724.4	1715.3
67.5°	1910.5	1910.5	1869.6	1842.4	1778.9	1701.7	1647.3	1574.7	1556.5	1520.2	1474.8
70°	1738.0	1783.4	1769.8	1706.3	1651.8	1565.6	1424.9	1306.9	1193.5	1152.6	1179.9
72.5°	1515.7	1561.1	1561.1	1529.3	1456.7	1325.1	1188.9	1052.8	957.5	884.9	875.8
75°	1166.3	1188.9	1243.4	1207.1	1111.8	1030.1	889.4	748.8	658.0	589.9	576.3
77.5°	744.2	780.5	780.5	776.0	707.9	630.8	540.0	440.2	372.1	322.2	308.6
80°	494.6	517.3	535.5	517.3	471.9	413.0	344.9	276.8	226.9	186.1	177.0
82.5°	363.0	390.3	403.9	385.7	340.3	295.0	245.0	195.1	145.2	113.4	104.4
85°	140.7	145.2	163.4	195.1	190.6	186.1	149.8	108.9	81.7	59.0	54.5
87.5°	36.3	31.8	36.3	36.3	31.8	27.2	27.2	27.2	27.2	13.6	18.2
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)