

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: P648113

Luminaire Tested: **GALN-SA8A-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17056.1 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

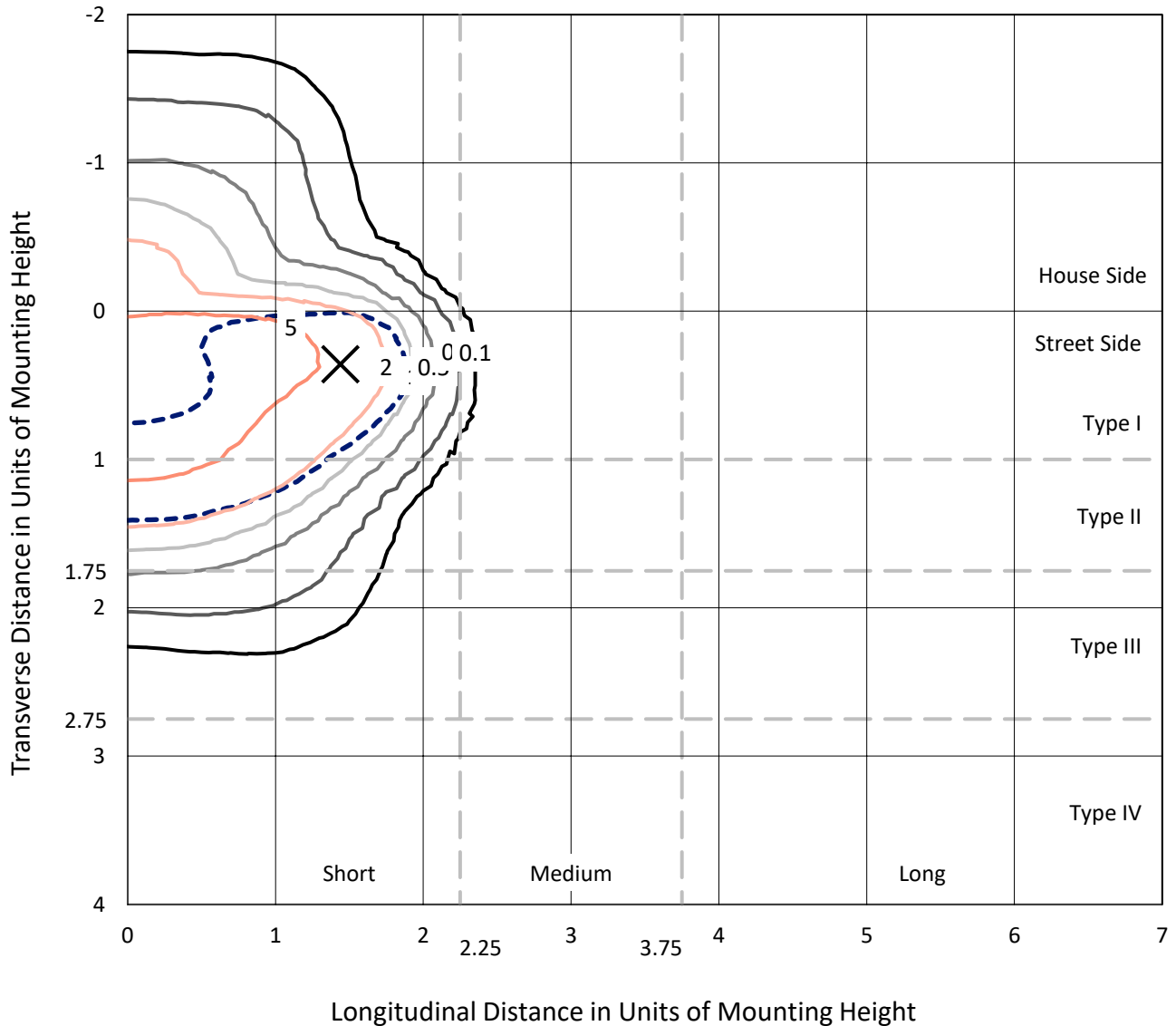
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

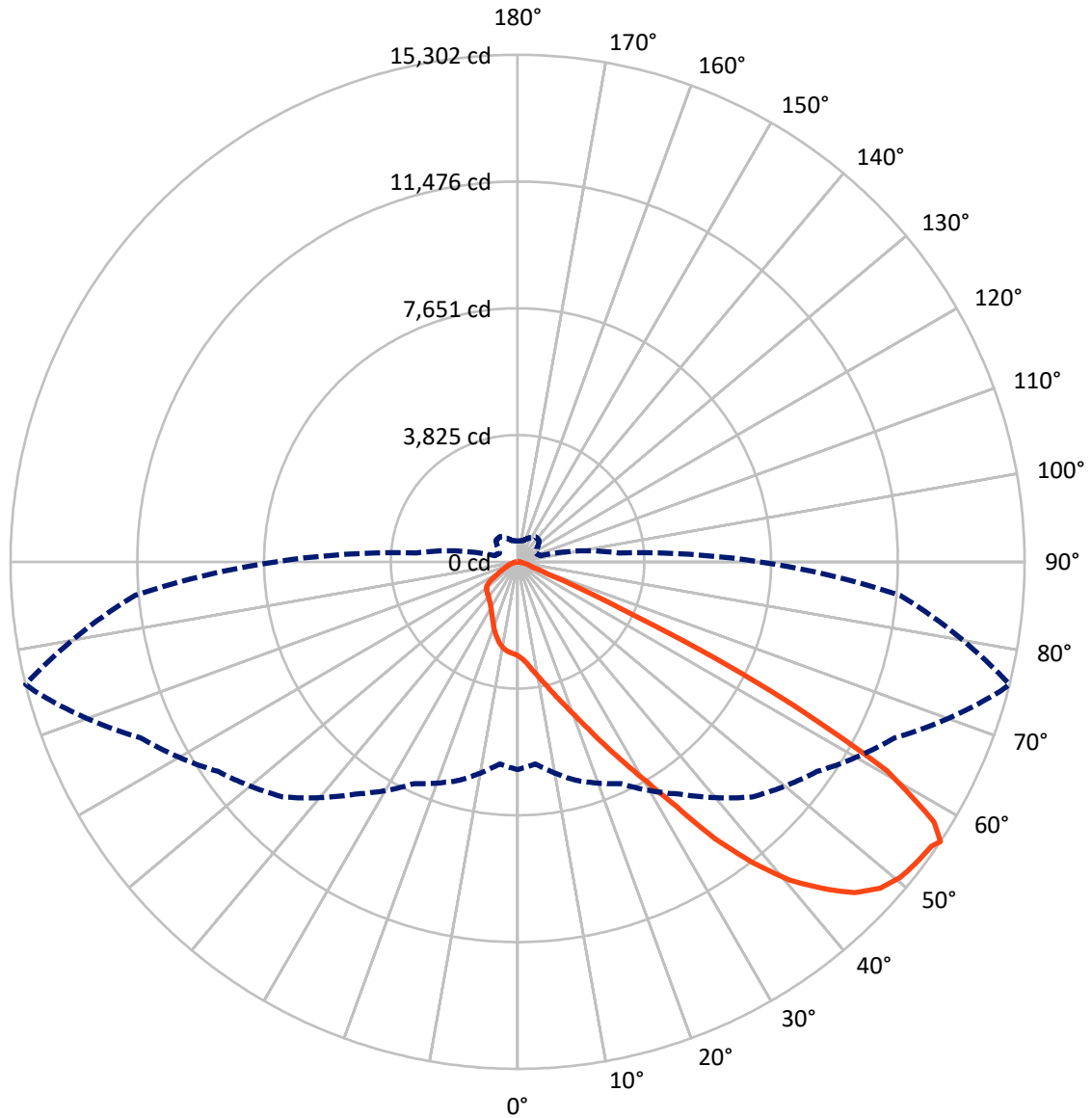
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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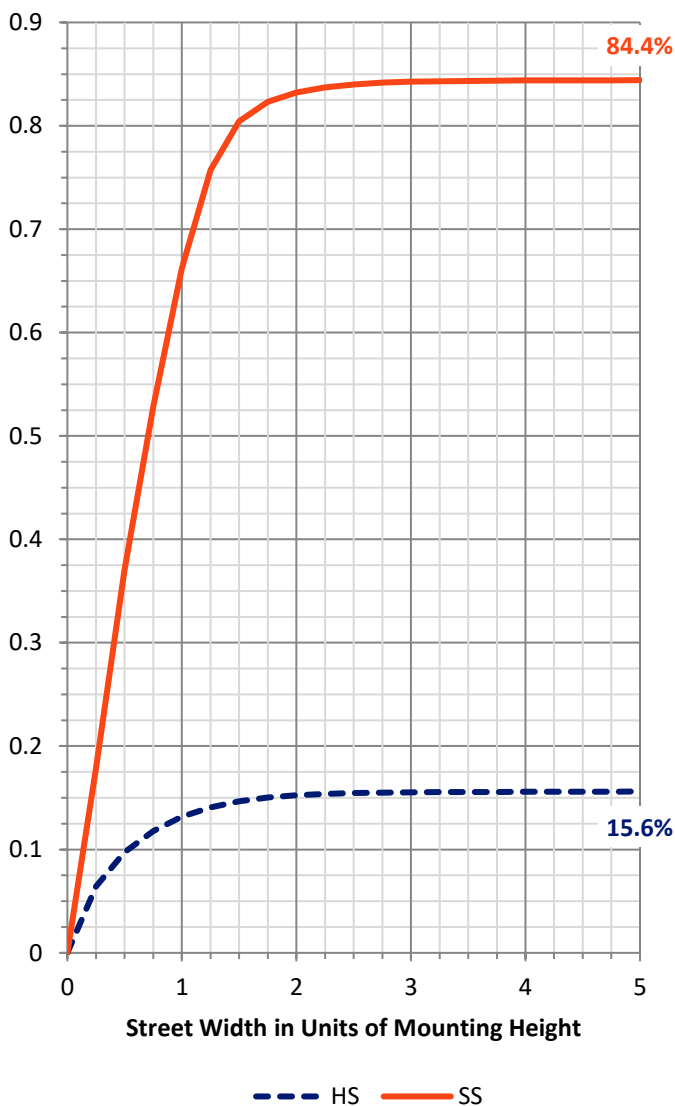
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2679.4	0.0	2679.4
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	14376.7	0.0	14376.7
	% Fixture	84.3	0.0	84.3
Total	Lumens	17056.1	0.0	17056.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.0	1.7
10°-20°	918.8	5.4
20°-30°	1666.0	9.8
30°-40°	2873.1	16.8
40°-50°	4667.4	27.4
50°-60°	4919.6	28.8
60°-70°	1503.2	8.8
70°-80°	192.7	1.1
80°-90°	29.3	0.2
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°	17056.1	100.0
0°-180°	17056.1	100.0

Coefficient of Utilization



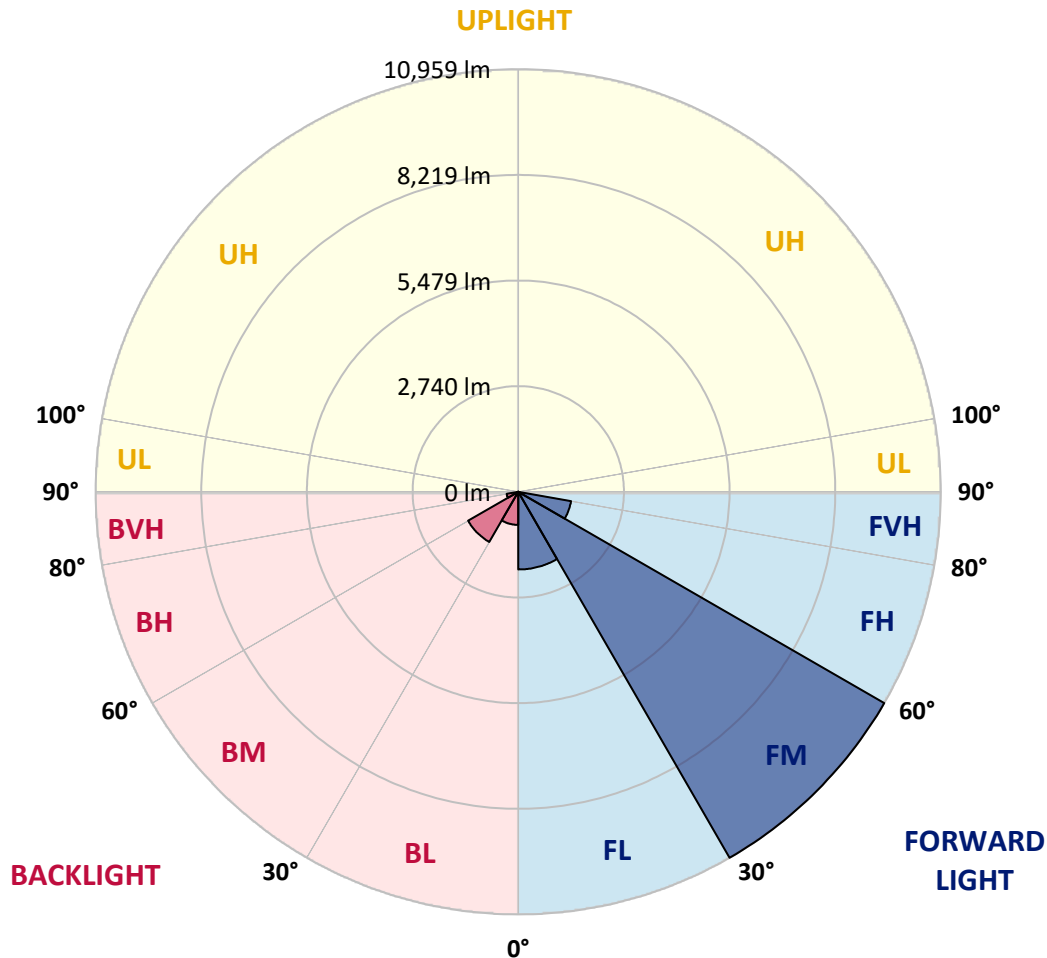
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2013.6	11.8			
FM (30°-60°)	10958.5	64.2			
FH (60°-80°)	1390.2	8.2			G1/1800
FVH (80°-90°)	14.3	0.1			G1/100
BL (0°-30°)	857.2	5.0	B2/1000		
BM (30°-60°)	1501.7	8.8	B2/2500		
BH (60°-80°)	305.7	1.8	B1/500		G1/500
BVH (80°-90°)	14.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0
2.5°	3269.7	3194.2	3197.5	3191.1	3181.7	3147.1	3043.4	3027.6	2958.5	2939.6	2876.7
5°	3662.7	3596.7	3634.5	3577.8	3524.4	3493.0	3323.2	3244.6	3134.6	3093.7	3005.6
7.5°	3908.0	3876.6	3863.9	3867.1	3816.8	3738.2	3662.7	3489.8	3342.1	3310.6	3125.1
10°	4027.4	4008.6	4027.4	4018.0	4040.0	4049.4	3917.4	3813.7	3596.7	3543.2	3254.0
12.5°	4055.7	4093.4	4109.2	4150.1	4203.5	4294.7	4285.2	4143.8	3854.6	3819.9	3452.1
15°	4124.9	4156.3	4140.6	4206.7	4307.3	4461.3	4543.0	4521.0	4209.8	4146.9	3681.6
17.5°	4187.8	4131.2	4184.7	4316.7	4417.3	4653.1	4851.2	4942.3	4596.5	4524.2	3892.2
20°	4272.7	4256.9	4247.5	4313.5	4492.8	4807.2	5200.1	5366.8	5030.4	4954.9	4194.1
22.5°	4530.4	4533.6	4527.3	4429.9	4558.8	4914.0	5505.1	5917.0	5549.1	5486.2	4536.8
25°	4870.0	4829.2	4797.7	4719.1	4703.4	5011.5	5813.2	6589.8	6171.6	6127.6	4907.8
27.5°	5228.4	5228.4	5134.1	5061.8	4961.2	5253.6	6096.2	7243.7	6923.1	6863.3	5231.6
30°	5618.3	5640.3	5627.7	5473.6	5410.8	5517.6	6385.4	8080.0	7784.5	7709.0	5766.1
32.5°	6193.6	6146.5	6200.0	6071.0	5885.5	5979.8	6841.3	8828.3	8903.7	8796.8	6467.2
35°	6954.4	6926.2	6891.6	6680.9	6460.8	6536.3	7485.8	9749.4	10309.1	10255.7	7174.6
37.5°	7636.8	7621.0	7592.7	7448.1	7193.4	7284.6	8218.4	10708.4	11679.9	11503.8	8174.4
40°	8353.5	8438.5	8347.2	8218.4	7985.7	8186.9	9079.8	11277.5	12833.7	12619.9	8938.3
42.5°	9325.1	9259.0	9299.8	9064.1	8938.3	9158.4	9944.4	11846.5	13729.7	13475.1	9749.4
45°	10359.4	10362.5	10252.5	10177.0	9850.1	10089.0	10475.8	12160.9	14443.5	14245.4	10362.5
47.5°	11022.8	11019.6	11139.1	11258.6	10922.1	10686.4	10837.3	12459.6	14811.3	14720.1	10585.8
50°	10919.0	10950.5	11104.5	11551.0	11727.1	11409.5	11176.9	12371.6	14977.9	14968.5	10777.5
52.5°	9497.9	9601.7	9859.5	10504.0	11390.6	11783.6	11532.1	12535.0	15059.7	15075.3	11063.6
55°	7231.2	7287.8	7778.2	8561.1	9542.0	10887.6	11390.6	12663.9	15122.5	15150.8	11409.5
56°	6272.2	6121.3	6828.7	7385.2	8557.9	10029.3	11032.2	12563.3	15084.8	15301.7	11582.4
57.5°	4734.8	4634.2	5206.4	5901.2	7029.9	8583.1	9919.3	12088.6	14830.2	14827.0	11334.0
60°	2879.9	2779.3	3219.5	3628.2	4260.1	5285.0	6702.9	9626.8	12538.2	12802.3	9177.3
62.5°	1713.4	1776.3	2210.3	2458.6	2663.0	2769.9	3467.8	5722.0	8366.1	8554.7	5693.7
65°	1141.3	1163.3	1490.3	1898.9	1990.2	1584.6	1411.7	2317.1	3628.2	3511.8	2348.5
67.5°	704.2	754.6	999.8	1427.3	1581.4	1157.0	669.7	864.6	999.8	999.8	679.1
70°	427.6	452.7	666.5	971.5	1084.7	745.1	487.3	487.3	481.0	471.6	405.6
72.5°	204.4	220.1	339.6	499.9	509.3	393.0	377.2	411.9	402.5	399.3	336.4
75°	88.0	94.4	119.5	157.2	179.2	166.6	229.5	295.5	305.0	295.5	242.1
77.5°	28.3	31.5	44.0	56.6	59.7	72.3	97.5	122.6	141.5	132.0	119.5
80°	3.1	6.3	12.6	28.3	44.0	56.6	72.3	81.7	91.1	91.1	84.9
82.5°	3.1	3.1	12.6	25.1	40.9	53.5	69.1	78.6	91.1	94.4	88.0
85°	0.0	3.1	9.4	22.0	34.6	34.6	31.5	31.5	22.0	22.0	22.0
87.5°	0.0	0.0	3.1	3.1	3.1	6.3	6.3	6.3	6.3	6.3	6.3
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°	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0
2.5°	2864.1	2857.9	2773.0	2719.5	2691.2	2634.6	2600.1	2574.9	2556.0	2534.0	2537.2
5°	2901.9	2879.9	2738.4	2640.9	2524.6	2461.8	2408.3	2364.3	2336.0	2329.7	2317.1
7.5°	3008.8	2892.5	2678.6	2502.6	2354.9	2292.0	2244.8	2216.5	2229.0	2200.8	2222.8
10°	3090.5	2917.6	2606.4	2351.7	2203.9	2156.8	2131.6	2153.6	2185.0	2172.5	2156.8
12.5°	3191.1	2942.7	2490.0	2207.0	2068.8	2034.2	2078.2	2119.0	2181.9	2207.0	2175.6
15°	3304.3	2971.1	2342.3	2040.4	1952.4	1980.7	2056.2	2128.5	2191.4	2222.8	2241.7
17.5°	3442.7	2961.6	2197.6	1908.4	1842.4	1924.1	2015.3	2081.3	2175.6	2222.8	2210.3
20°	3571.6	2930.2	2037.3	1776.3	1779.5	1854.9	1930.4	2037.3	2087.6	2150.5	2128.5
22.5°	3694.2	2873.6	1870.7	1685.2	1685.2	1801.5	1839.2	1908.4	1952.4	1983.9	1980.7
25°	3867.1	2766.7	1732.3	1597.2	1634.9	1710.3	1741.8	1763.8	1744.9	1770.0	1773.2
27.5°	3989.7	2656.6	1619.2	1518.6	1587.7	1644.3	1634.9	1622.3	1578.3	1543.7	1565.7
30°	4121.8	2527.8	1521.7	1465.1	1502.8	1553.2	1515.4	1477.7	1408.5	1351.9	1355.1
32.5°	4310.4	2468.0	1436.8	1402.2	1452.5	1458.8	1417.9	1361.3	1292.2	1238.7	1235.6
35°	4662.5	2430.3	1364.5	1361.3	1370.8	1373.9	1333.1	1263.8	1235.6	1191.6	1207.3
37.5°	5014.6	2411.4	1314.2	1301.6	1298.4	1301.6	1254.4	1188.4	1241.8	1238.7	1245.0
40°	5464.2	2496.3	1241.8	1226.2	1229.3	1229.3	1169.6	1150.7	1245.0	1254.4	1257.6
42.5°	5920.1	2603.2	1194.7	1144.4	1157.0	1157.0	1125.6	1103.6	1169.6	1106.7	1097.2
45°	6316.2	2760.4	1144.4	1062.7	1094.1	1109.8	1100.4	1062.7	1021.8	914.9	914.9
47.5°	6445.2	2898.7	1084.7	984.1	1009.2	1078.3	1050.1	971.5	899.2	811.1	804.8
50°	6671.6	3049.6	1037.5	892.9	946.3	1031.2	1002.9	924.3	842.6	779.7	782.8
52.5°	6904.2	3222.6	949.5	786.0	852.0	993.5	993.5	905.5	779.7	735.7	729.4
55°	7253.2	3216.3	792.3	644.5	760.8	936.9	952.6	811.1	698.0	663.4	663.4
56°	7303.4	3071.6	713.7	603.6	720.0	921.2	924.3	786.0	666.5	628.8	628.8
57.5°	6926.2	2773.0	625.6	553.3	669.7	892.9	896.1	764.0	641.4	588.0	581.6
60°	5329.0	1876.9	521.9	493.6	606.8	804.8	820.6	694.8	562.7	521.9	518.7
62.5°	3008.8	1040.7	459.0	446.5	521.9	685.4	732.6	606.8	477.9	455.9	462.1
65°	1373.9	572.2	386.7	361.6	421.3	528.2	591.1	499.9	393.0	367.9	367.9
67.5°	503.0	389.9	330.1	286.1	295.5	342.7	383.6	323.8	261.0	223.2	232.6
70°	358.4	327.0	289.2	248.4	229.5	223.2	220.1	182.4	128.9	100.6	106.9
72.5°	289.2	270.4	242.1	210.6	179.2	150.9	128.9	94.4	59.7	40.9	37.7
75°	207.5	198.1	176.1	150.9	125.7	106.9	88.0	59.7	31.5	15.7	15.7
77.5°	106.9	106.9	103.7	94.4	78.6	62.9	50.3	34.6	18.9	6.3	6.3
80°	81.7	88.0	91.1	81.7	72.3	56.6	40.9	25.1	12.6	3.1	3.1
82.5°	78.6	91.1	97.5	84.9	72.3	53.5	40.9	25.1	12.6	3.1	3.1
85°	18.9	18.9	28.3	31.5	40.9	44.0	34.6	22.0	9.4	3.1	3.1
87.5°	6.3	6.3	6.3	6.3	6.3	6.3	3.1	3.1	3.1	3.1	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)