

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: P648473

Luminaire Tested: **GALN-SA6B-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648473
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-SA6B-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA 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: 23840.8 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

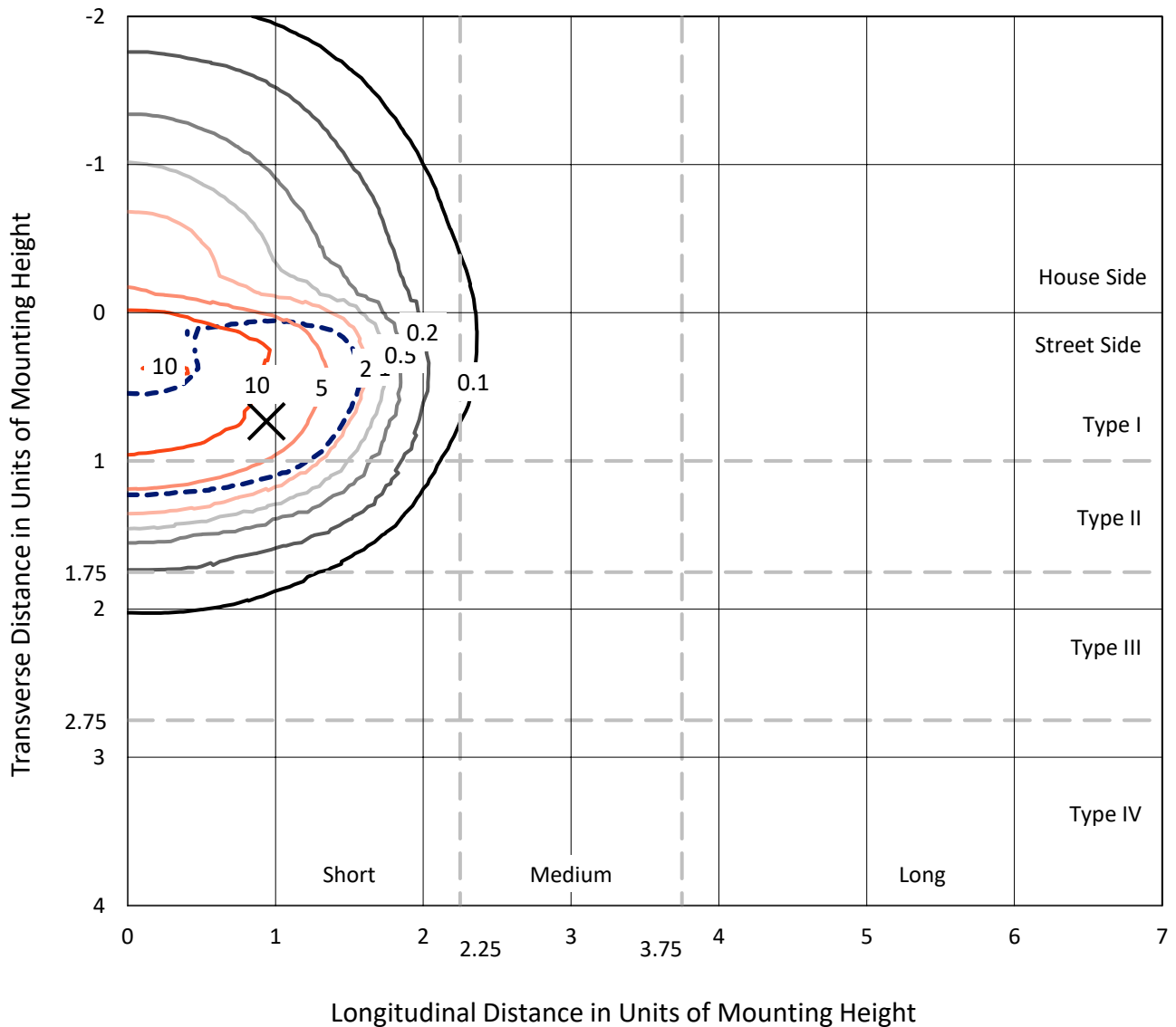
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

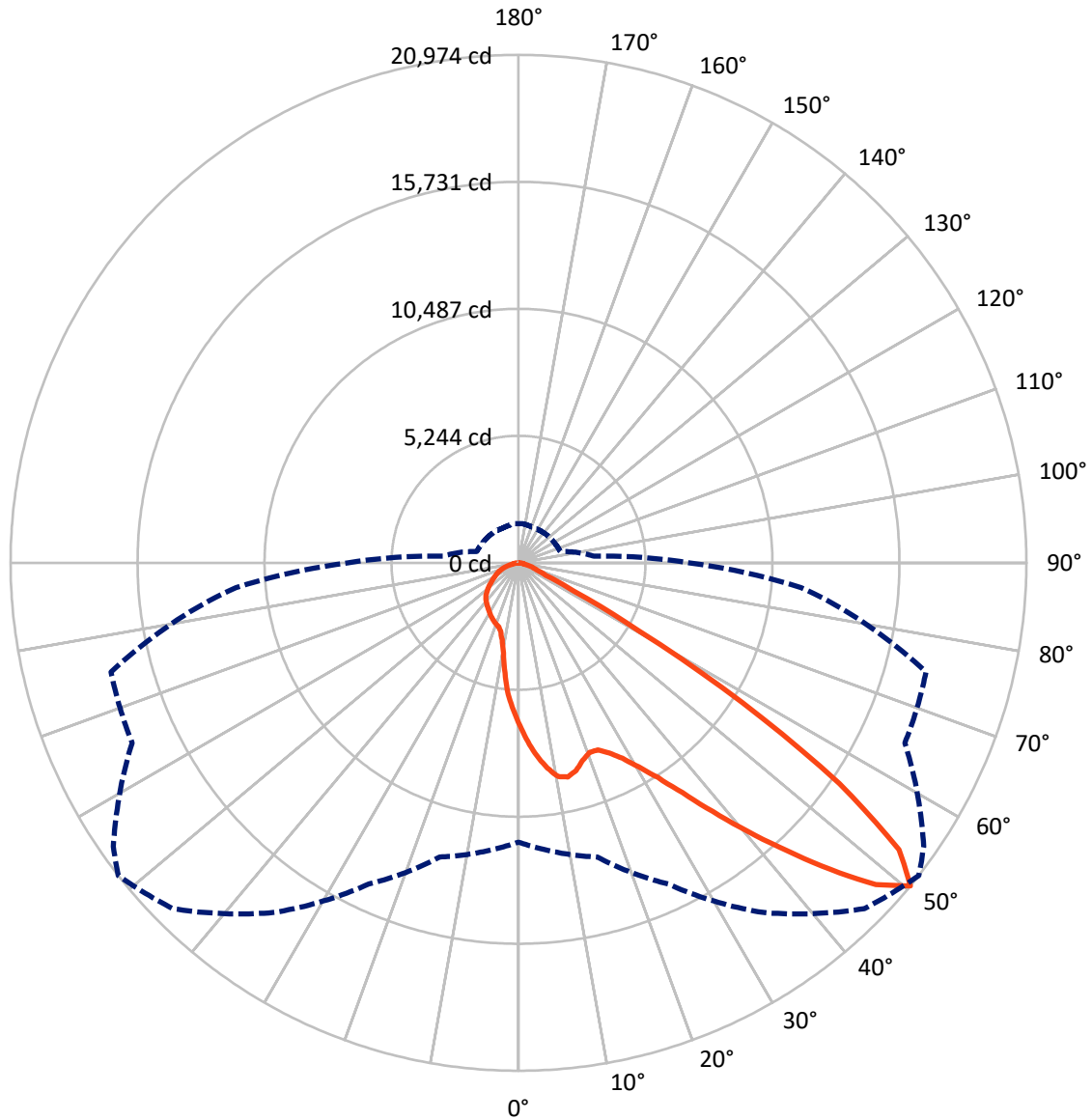
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	4481.5	0.0	4481.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	19359.3	0.0	19359.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	23840.8	0.0	23840.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.4	2.6
10°-20°	1660.2	7.0
20°-30°	2796.5	11.7
30°-40°	4692.8	19.7
40°-50°	7178.8	30.1
50°-60°	5233.9	22.0
60°-70°	1164.8	4.9
70°-80°	420.1	1.8
80°-90°	74.4	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°	23840.8	100.0
0°-180°	23840.8	100.0

Coefficient of Utilization

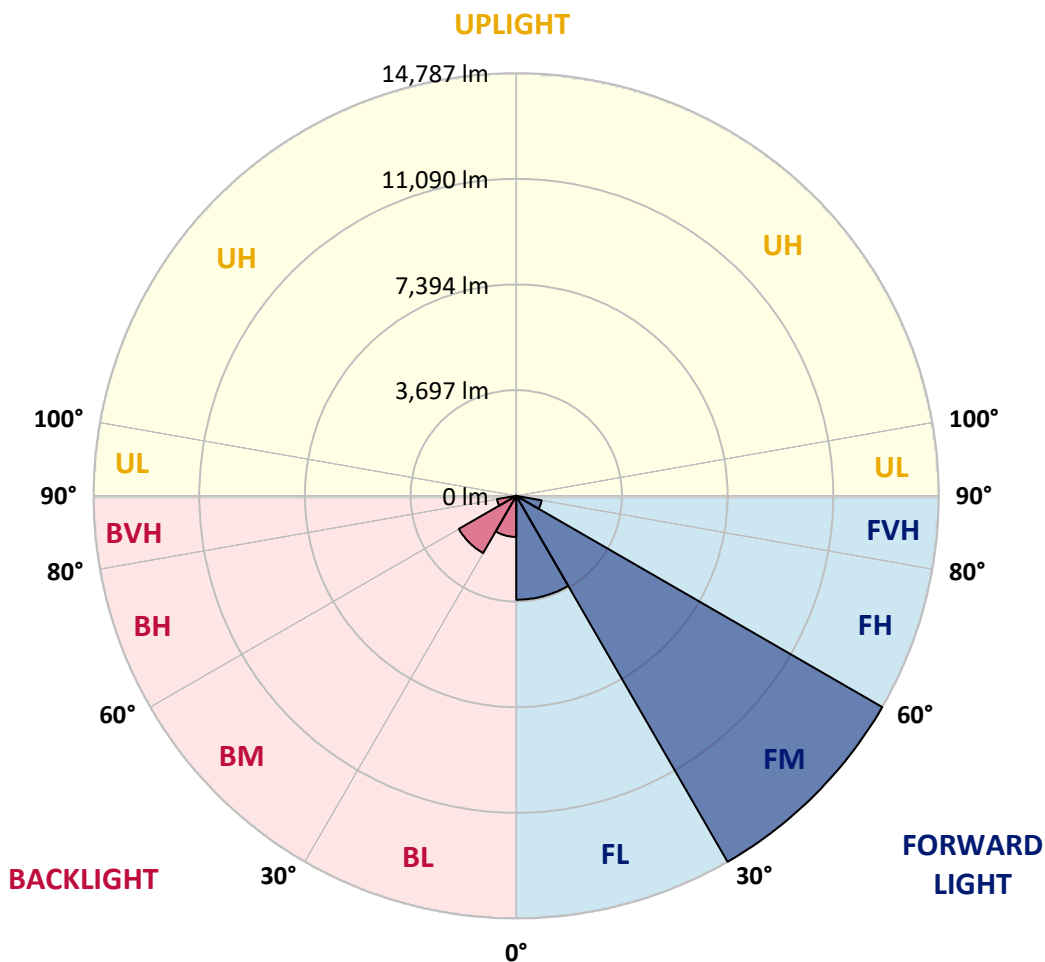


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3636.5	15.3			
FM (30°-60°)	14787.3	62.0			
FH (60°-80°)	902.2	3.8			G1/1800
FVH (80°-90°)	33.3	0.1			G1/100
BL (0°-30°)	1439.5	6.0	B3/2500		
BM (30°-60°)	2318.1	9.7	B2/2500		
BH (60°-80°)	682.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	41.0	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°	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3
2.5°	7912.7	7760.4	7777.6	7668.5	7550.7	7516.2	7395.5	7280.6	7194.4	7010.5	6841.0
5°	8648.2	8602.3	8533.3	8447.1	8358.1	8139.7	8016.1	7872.4	7556.4	7272.0	6990.4
7.5°	8754.5	8745.9	8783.2	8783.2	8814.9	8731.5	8556.2	8455.7	8119.6	7657.0	7134.1
10°	8007.5	8033.3	8214.4	8450.0	8777.5	9004.5	8975.8	8949.9	8582.1	7950.0	7303.6
12.5°	7412.7	7355.3	7461.6	7662.8	8154.0	8702.8	9073.4	9076.3	8981.5	8418.3	7427.1
15°	7076.6	7116.8	7145.6	7240.4	7611.0	8246.0	8898.2	9090.7	9507.3	8748.8	7622.5
17.5°	7292.1	7157.0	7151.3	7174.3	7363.9	7840.9	8573.5	8903.9	9794.6	9174.0	7863.8
20°	7573.6	7570.7	7490.3	7461.6	7458.7	7883.9	8360.9	8809.1	9946.9	9725.6	8108.0
22.5°	8067.8	8067.8	7935.7	7872.4	7737.4	8085.1	8389.6	8694.2	10199.7	10104.9	8225.9
25°	8895.3	8760.3	8533.3	8378.1	8300.6	8424.1	8694.2	8967.2	10420.9	10507.2	8470.1
27.5°	9659.6	9447.0	9334.9	9067.7	8964.3	8892.5	9139.5	9415.3	10679.6	11133.5	8602.3
30°	10527.3	10489.9	10288.8	9944.0	9688.3	9556.1	9783.1	10056.1	11153.6	11774.2	8906.8
32.5°	12078.8	11739.8	11466.8	11044.4	10627.8	10346.2	10570.3	10751.4	11940.8	12443.7	9240.1
35°	13753.8	13644.6	13173.4	12412.0	11774.2	11521.4	11653.5	11788.6	12857.4	13466.5	9800.3
37.5°	15400.1	15250.7	14862.8	14222.2	13446.4	12932.1	13026.9	13184.9	13886.0	14845.6	10484.1
40°	16583.9	16400.0	16204.7	16109.8	15339.8	14635.9	14581.3	14621.5	15276.6	16138.6	11242.7
42.5°	16670.1	16897.1	16957.4	17339.5	17158.5	16581.0	16244.8	16253.4	16604.0	17417.1	12009.8
45°	16489.0	16279.4	16724.6	17767.6	18365.3	18635.3	18069.3	17997.5	17425.7	18158.4	12391.9
47.5°	14589.9	14647.3	15400.1	17049.4	18776.1	19982.9	19850.7	19612.2	17865.3	18132.5	12331.6
50°	11532.9	11880.5	12578.7	14633.0	17626.8	20195.4	20974.1	20422.4	17603.9	17419.9	11716.7
52.5°	7680.0	7823.6	8283.4	10935.2	14173.3	18052.1	19681.2	19807.6	17362.5	16486.2	10938.1
55°	3419.0	3407.5	4054.1	5711.8	8892.5	13736.6	16081.1	16851.1	16434.5	15535.2	10179.6
57.5°	1448.1	1496.9	1761.3	2468.0	4373.0	8289.1	10895.1	11570.2	12639.0	12756.8	7809.3
60°	979.8	985.5	1057.3	1235.5	1830.2	3893.2	5714.7	6525.0	7289.2	7237.5	4143.1
62.5°	770.0	790.1	844.7	916.5	1086.0	1767.0	2557.1	3008.2	3057.1	2571.5	1571.6
65°	658.0	660.9	715.4	775.7	850.4	1028.6	1232.6	1255.5	1269.9	1224.0	1155.0
67.5°	543.0	548.8	591.9	660.9	729.8	787.2	844.7	873.4	939.5	1068.8	1051.6
70°	431.0	439.6	476.9	534.4	597.6	632.1	703.9	729.8	790.1	890.7	930.9
72.5°	327.5	330.4	362.0	402.2	459.7	494.2	554.5	583.3	623.5	709.6	747.1
75°	235.6	244.2	267.2	287.3	296.0	318.9	376.4	408.0	465.4	502.8	505.7
77.5°	123.6	129.3	135.1	135.1	163.8	206.9	244.2	261.4	301.7	330.4	316.0
80°	48.9	51.7	66.1	89.1	114.9	149.4	175.2	183.8	218.4	235.6	244.2
82.5°	28.7	31.6	43.1	63.2	83.3	106.3	126.5	135.1	158.0	178.1	183.8
85°	14.3	17.2	25.8	40.2	54.6	66.1	63.2	60.4	60.4	57.5	60.4
87.5°	5.7	5.7	8.6	8.6	8.6	11.5	14.3	14.3	14.3	17.2	17.2
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°	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3
2.5°	6728.9	6614.0	6507.7	6312.3	6099.7	6039.4	5792.3	5703.2	5640.0	5565.3	5542.3
5°	6763.4	6611.1	6269.2	5875.6	5562.4	5160.2	4895.9	4611.4	4404.5	4352.9	4338.4
7.5°	6835.3	6573.8	5984.8	5390.0	4749.4	4203.5	3786.8	3562.7	3364.5	3353.0	3332.8
10°	6915.7	6461.7	5674.5	4740.8	3921.9	3416.2	3166.2	3068.5	3019.7	3008.2	3002.4
12.5°	6981.8	6438.8	5326.8	4108.6	3335.7	3031.1	2956.5	2947.8	2968.0	2973.8	2985.2
15°	7010.5	6346.8	4907.4	3542.6	2970.9	2858.8	2890.4	2924.9	2939.2	2976.6	2947.8
17.5°	7065.1	6229.0	4390.2	3094.4	2766.9	2786.9	2841.6	2881.8	2904.8	2930.6	2893.3
20°	7093.8	6122.7	3904.6	2827.2	2695.0	2732.4	2807.1	2838.7	2867.4	2878.9	2835.8
22.5°	7068.0	5904.4	3476.5	2611.7	2626.1	2674.9	2741.0	2775.5	2758.2	2712.2	2686.4
25°	6999.0	5596.9	3031.1	2473.8	2528.4	2614.6	2666.3	2640.4	2608.8	2583.0	2574.3
27.5°	6996.2	5220.5	2709.4	2347.4	2445.1	2562.8	2545.6	2522.7	2537.0	2516.9	2493.9
30°	7010.5	4855.6	2445.1	2275.6	2384.7	2442.2	2462.3	2439.3	2456.6	2419.2	2430.7
32.5°	6935.8	4499.4	2272.7	2192.2	2312.9	2310.0	2376.1	2393.3	2353.1	2275.6	2287.1
35°	6967.4	4212.1	2126.2	2154.9	2232.4	2232.4	2284.2	2264.0	2157.7	2111.8	2123.3
37.5°	7185.7	3930.5	2054.3	2103.1	2154.9	2177.8	2160.6	2074.4	2048.6	2048.6	2054.3
40°	7392.6	3689.1	2011.2	2091.6	2083.0	2097.4	1971.0	1979.6	1979.6	1982.5	1968.1
42.5°	7576.5	3525.4	1976.8	2022.7	2037.1	1962.4	1884.8	1876.1	1896.3	1893.5	1881.9
45°	7642.6	3390.3	1927.9	1945.1	1956.6	1833.1	1795.7	1778.5	1801.4	1810.1	1821.6
47.5°	7389.8	3278.3	1873.3	1838.8	1815.9	1735.4	1686.6	1654.9	1683.7	1732.5	1744.0
50°	7065.1	3131.8	1787.1	1721.0	1672.2	1637.7	1603.2	1571.6	1591.8	1626.2	1617.6
52.5°	6585.3	2901.9	1677.9	1609.0	1525.7	1534.3	1502.7	1485.4	1496.9	1496.9	1488.3
55°	5901.5	2384.7	1494.0	1445.2	1376.3	1399.2	1404.9	1382.0	1359.0	1379.1	1361.9
57.5°	4028.1	1683.7	1333.1	1333.1	1264.2	1295.8	1292.9	1238.3	1183.7	1189.5	1178.0
60°	2330.1	1341.7	1229.7	1218.2	1146.4	1172.2	1178.0	1140.7	1057.3	1063.1	1051.6
62.5°	1324.5	1146.4	1074.6	1057.3	1043.0	1066.0	1066.0	1017.1	945.2	951.0	939.5
65°	1126.3	1063.1	959.6	956.7	951.0	956.7	933.8	882.0	818.9	793.0	795.8
67.5°	1022.8	982.6	882.0	856.2	839.0	836.1	793.0	744.2	715.4	692.4	689.6
70°	896.5	864.8	790.1	755.7	738.4	698.2	655.1	623.5	583.3	571.7	583.3
72.5°	709.6	706.8	678.1	640.7	603.4	571.7	534.4	491.3	454.0	445.4	425.2
75°	491.3	497.0	502.8	497.0	465.4	425.2	382.1	347.7	301.7	275.9	270.1
77.5°	321.8	330.4	339.0	327.5	307.4	270.1	241.3	198.3	163.8	143.7	140.8
80°	235.6	247.1	252.8	244.2	221.2	192.5	160.9	126.5	100.5	83.3	83.3
82.5°	181.0	192.5	198.3	183.8	160.9	137.9	114.9	89.1	69.0	54.6	51.7
85°	63.2	60.4	71.8	74.7	89.1	83.3	69.0	51.7	40.2	28.7	25.8
87.5°	17.2	17.2	20.1	20.1	17.2	14.3	14.3	14.3	11.5	8.6	8.6
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)