

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: P529736

Luminaire Tested: **GALN-SA4D-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529736
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-SA4D-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA 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: 21943 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 245
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



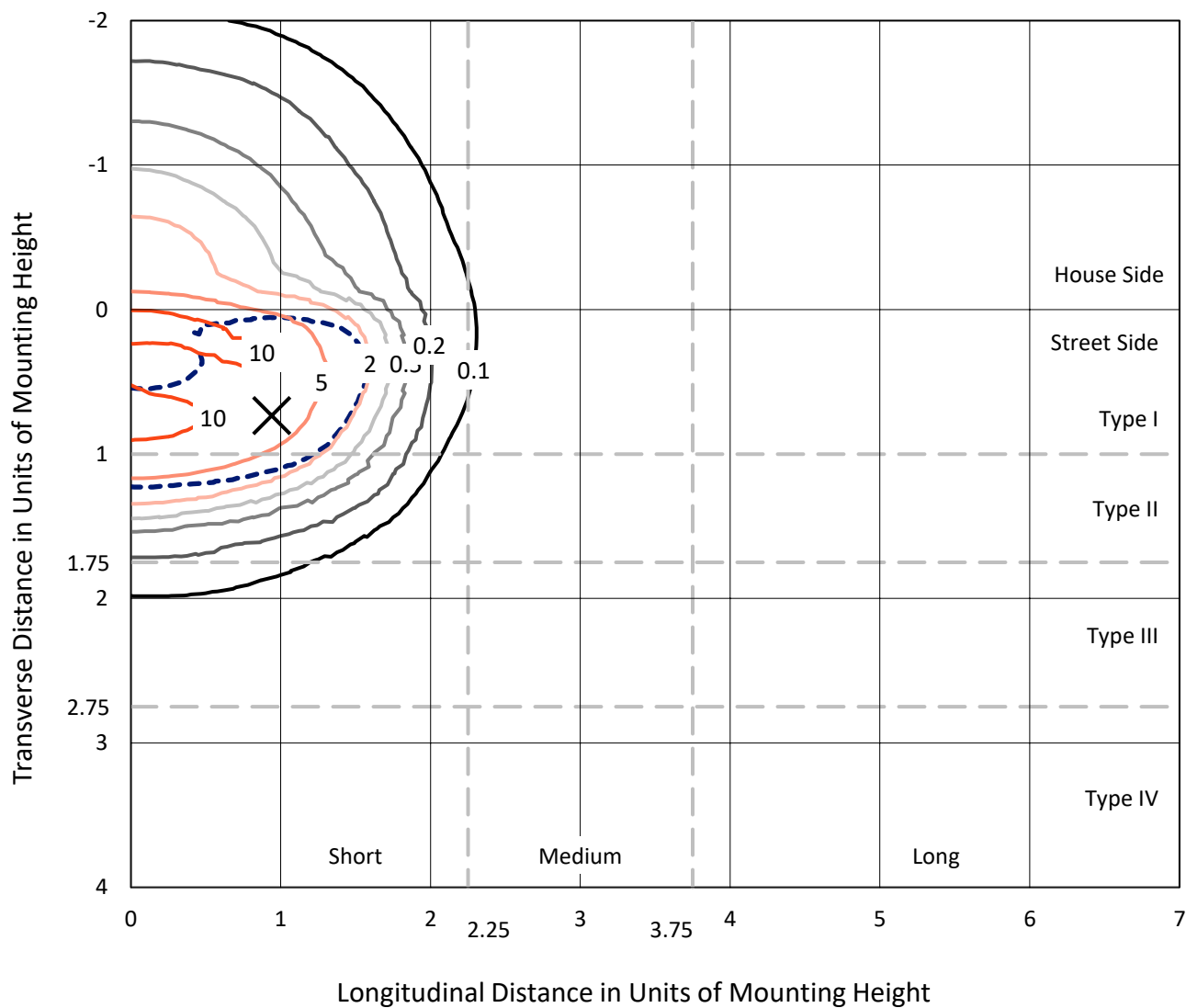
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

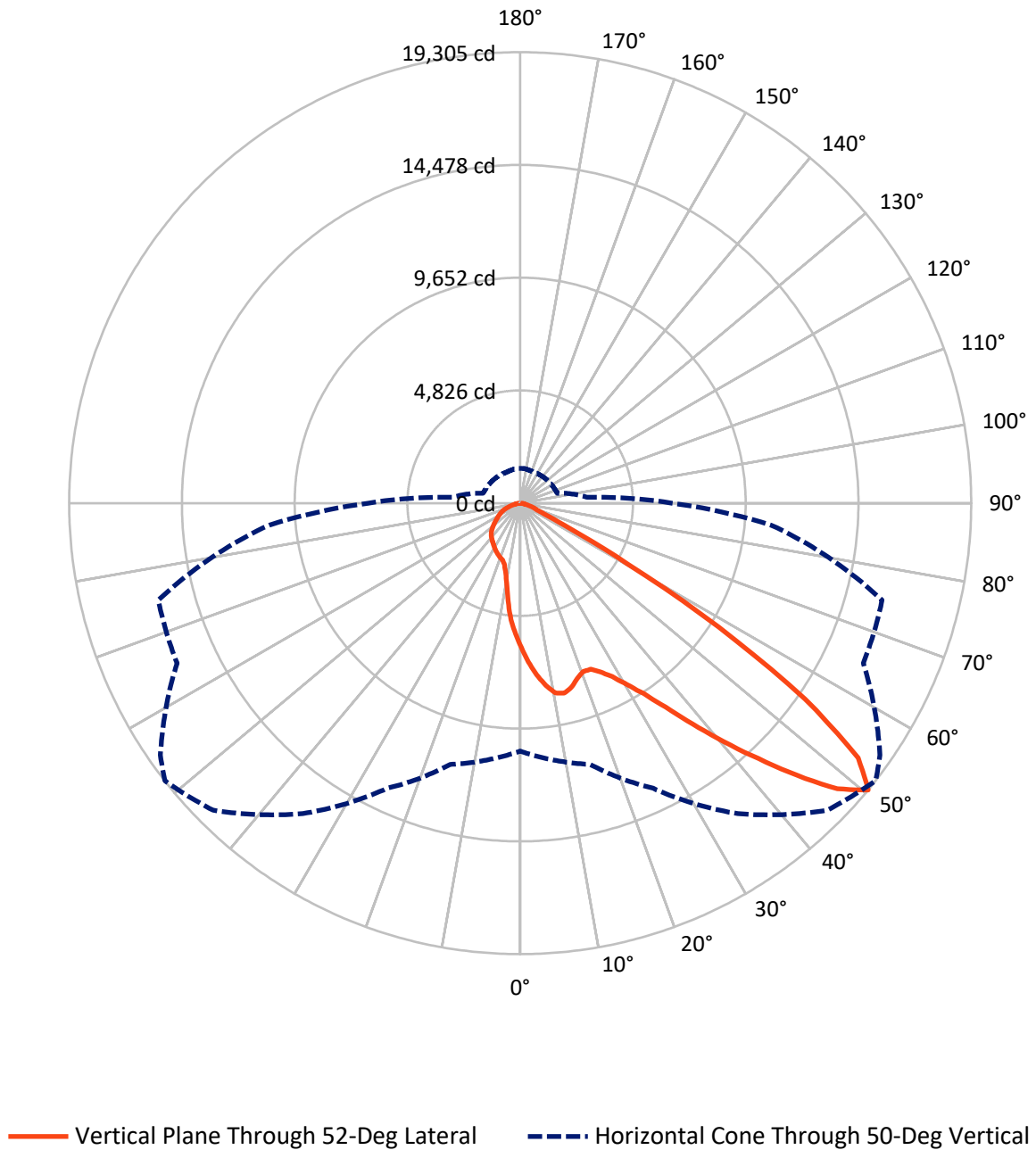


Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4124.8	0.0	4124.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17818.2	0.0	17818.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	21943.0	0.0	21943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.1	2.6
10°-20°	1528.0	7.0
20°-30°	2573.9	11.7
30°-40°	4319.2	19.7
40°-50°	6607.3	30.1
50°-60°	4817.3	22.0
60°-70°	1072.1	4.9
70°-80°	386.7	1.8
80°-90°	68.4	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°	21943.0	100.0
0°-180°	21943.0	100.0

Coefficient of Utilization



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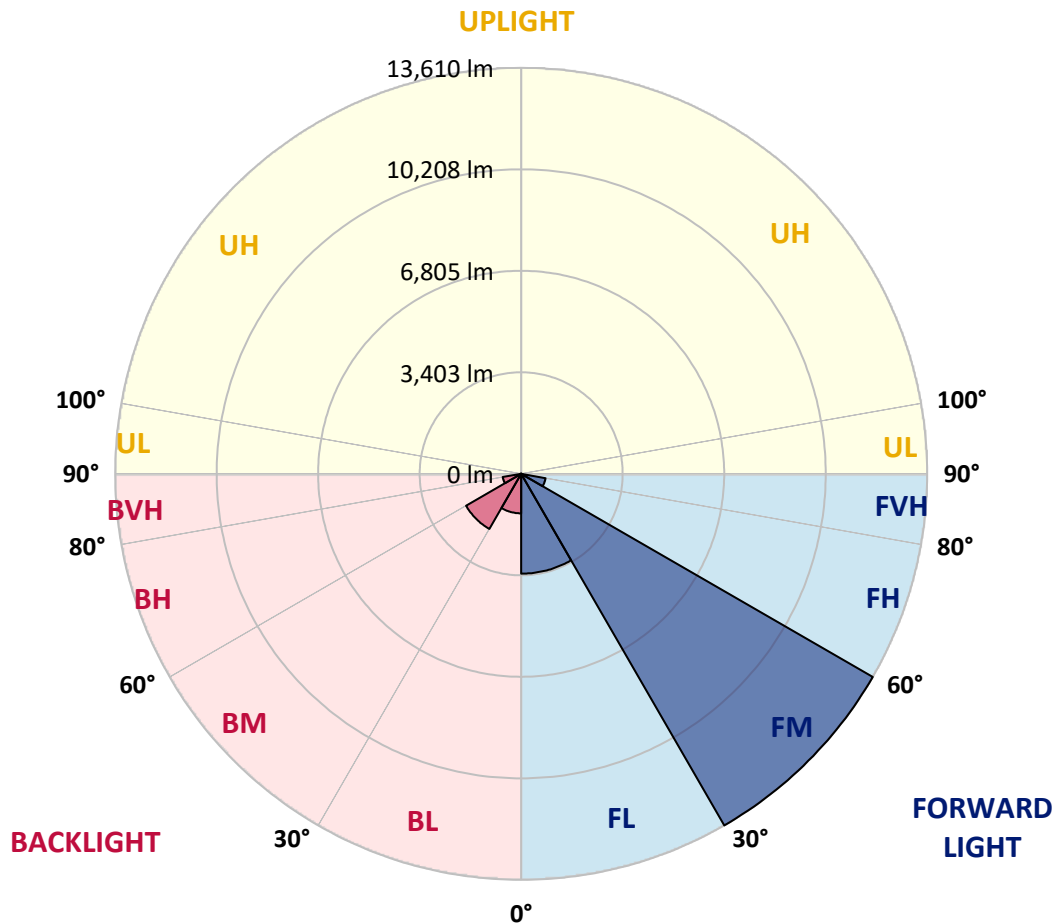
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3347.1	15.3			
FM	(30°-60°)	13610.2	62.0			
FH	(60°-80°)	830.3	3.8			G1/1800
FVH	(80°-90°)	30.7	0.1			G1/100
BL	(0°-30°)	1325.0	6.0	B3/2500		
BM	(30°-60°)	2133.6	9.7	B2/2500		
BH	(60°-80°)	628.4	2.9	B2/1000		G2/1000
BVH	(80°-90°)	37.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4
2.5°	7282.8	7142.7	7158.5	7058.0	6949.6	6917.9	6806.8	6701.0	6621.7	6452.5	6296.4
5°	7959.8	7917.5	7854.0	7774.7	7692.7	7491.7	7378.0	7245.8	6954.9	6693.1	6433.9
7.5°	8057.6	8049.7	8084.1	8084.1	8113.2	8036.5	7875.2	7782.6	7473.2	7047.5	6566.2
10°	7370.1	7393.9	7560.5	7777.3	8078.8	8287.7	8261.3	8237.5	7899.0	7317.2	6722.2
12.5°	6822.7	6769.8	6867.6	7052.7	7504.9	8010.0	8351.2	8353.8	8266.5	7748.2	6835.9
15°	6513.3	6550.3	6576.7	6664.0	7005.1	7589.6	8189.9	8367.0	8750.5	8052.3	7015.7
17.5°	6711.6	6587.3	6582.0	6603.2	6777.7	7216.7	7891.0	8195.1	9014.9	8443.7	7237.9
20°	6970.8	6968.1	6894.1	6867.6	6865.0	7256.4	7695.3	8107.9	9155.1	8951.5	7462.6
22.5°	7425.6	7425.6	7304.0	7245.8	7121.5	7441.5	7721.8	8002.1	9387.8	9300.5	7571.1
25°	8187.2	8062.9	7854.0	7711.2	7639.8	7753.5	8002.1	8253.3	9591.4	9670.8	7795.8
27.5°	8890.6	8695.0	8591.8	8345.9	8250.7	8184.6	8412.0	8665.9	9829.4	10247.2	7917.5
30°	9689.3	9654.9	9469.8	9152.4	8917.1	8795.4	9004.4	9255.6	10265.8	10837.0	8197.8
32.5°	11117.3	10805.2	10554.0	10165.3	9781.8	9522.7	9728.9	9895.5	10990.3	11453.1	8504.6
35°	12659.0	12558.5	12124.8	11424.0	10837.0	10604.2	10725.9	10850.2	11833.9	12394.5	9020.2
37.5°	14174.3	14036.7	13679.7	13090.0	12376.0	11902.7	11989.9	12135.4	12780.6	13663.9	9649.6
40°	15263.8	15094.5	14914.7	14827.4	14118.7	13470.8	13420.6	13457.6	14060.5	14853.9	10347.7
42.5°	15343.1	15552.0	15607.5	15959.3	15792.7	15261.1	14951.7	14959.7	15282.3	16030.7	11053.8
45°	15176.5	14983.5	15393.3	16353.3	16903.3	17151.9	16630.9	16564.8	16038.6	16712.9	11405.5
47.5°	13428.5	13481.4	14174.3	15692.2	17281.5	18392.1	18270.5	18051.0	16443.2	16689.1	11350.0
50°	10614.8	10934.8	11577.4	13468.2	16223.7	18587.8	19304.5	18796.7	16202.5	16033.3	10784.1
52.5°	7068.6	7200.8	7623.9	10064.8	13045.1	16615.1	18114.5	18230.8	15980.4	15173.9	10067.4
55°	3146.9	3136.3	3731.3	5257.2	8184.6	12643.1	14801.0	15509.7	15126.3	14298.5	9369.3
57.5°	1332.8	1377.8	1621.0	2271.6	4024.9	7629.2	10027.8	10649.2	11632.9	11741.4	7187.6
60°	901.8	907.0	973.2	1137.1	1684.5	3583.2	5259.8	6005.5	6709.0	6661.4	3813.3
62.5°	708.7	727.2	777.5	843.6	999.6	1626.3	2353.6	2768.7	2813.7	2366.8	1446.5
65°	605.6	608.2	658.5	714.0	782.8	946.7	1134.5	1155.6	1168.8	1126.5	1063.1
67.5°	499.8	505.1	544.8	608.2	671.7	724.6	777.5	803.9	864.7	983.7	967.9
70°	396.7	404.6	439.0	491.9	550.0	581.8	647.9	671.7	727.2	819.8	856.8
72.5°	301.5	304.1	333.2	370.2	423.1	454.8	510.4	536.8	573.8	653.2	687.6
75°	216.8	224.8	245.9	264.4	272.4	293.5	346.4	375.5	428.4	462.8	465.4
77.5°	113.7	119.0	124.3	124.3	150.7	190.4	224.8	240.6	277.7	304.1	290.9
80°	45.0	47.6	60.8	82.0	105.8	137.5	161.3	169.2	201.0	216.8	224.8
82.5°	26.4	29.1	39.7	58.2	76.7	97.8	116.4	124.3	145.4	164.0	169.2
85°	13.2	15.9	23.8	37.0	50.2	60.8	58.2	55.5	55.5	52.9	55.5
87.5°	5.3	5.3	7.9	7.9	7.9	10.6	13.2	13.2	13.2	15.9	15.9
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°	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4	6185.4
2.5°	6193.3	6087.5	5989.7	5809.9	5614.2	5558.6	5331.2	5249.2	5191.1	5122.3	5101.1
5°	6225.0	6084.9	5770.2	5407.9	5119.7	4749.4	4506.1	4244.3	4053.9	4006.3	3993.1
7.5°	6291.1	6050.5	5508.4	4961.0	4371.3	3868.8	3485.4	3279.1	3096.7	3086.1	3067.6
10°	6365.2	5947.4	5222.8	4363.3	3609.7	3144.3	2914.2	2824.3	2779.3	2768.7	2763.4
12.5°	6426.0	5926.2	4902.8	3781.6	3070.2	2789.9	2721.1	2713.2	2731.7	2737.0	2747.6
15°	6452.5	5841.6	4516.7	3260.6	2734.4	2631.2	2660.3	2692.0	2705.3	2739.6	2713.2
17.5°	6502.7	5733.2	4040.7	2848.1	2546.6	2565.1	2615.4	2652.4	2673.5	2697.3	2663.0
20°	6529.1	5635.3	3593.8	2602.1	2480.5	2514.9	2583.6	2612.7	2639.2	2649.7	2610.1
22.5°	6505.3	5434.3	3199.8	2403.8	2417.0	2462.0	2522.8	2554.5	2538.7	2496.4	2472.6
25°	6441.9	5151.4	2789.9	2276.9	2327.1	2406.4	2454.0	2430.2	2401.2	2377.4	2369.4
27.5°	6439.2	4805.0	2493.7	2160.5	2250.4	2358.8	2343.0	2321.8	2335.0	2316.5	2295.4
30°	6452.5	4469.1	2250.4	2094.4	2194.9	2247.8	2266.3	2245.1	2261.0	2226.6	2237.2
32.5°	6383.7	4141.2	2091.8	2017.7	2128.8	2126.1	2187.0	2202.8	2165.8	2094.4	2105.0
35°	6412.8	3876.8	1956.9	1983.3	2054.7	2054.7	2102.3	2083.8	1986.0	1943.7	1954.2
37.5°	6613.8	3617.6	1890.8	1935.7	1983.3	2004.5	1988.6	1909.3	1885.5	1885.5	1890.8
40°	6804.2	3395.5	1851.1	1925.2	1917.2	1930.4	1814.1	1822.0	1822.0	1824.7	1811.4
42.5°	6973.4	3244.7	1819.4	1861.7	1874.9	1806.2	1734.8	1726.8	1745.3	1742.7	1732.1
45°	7034.2	3120.5	1774.4	1790.3	1800.9	1687.2	1652.8	1636.9	1658.1	1666.0	1676.6
47.5°	6801.5	3017.3	1724.2	1692.4	1671.3	1597.2	1552.3	1523.2	1549.6	1594.6	1605.2
50°	6502.7	2882.5	1644.8	1584.0	1539.1	1507.3	1475.6	1446.5	1465.0	1496.8	1488.8
52.5°	6061.1	2670.9	1544.4	1480.9	1404.2	1412.1	1383.0	1367.2	1377.8	1377.8	1369.8
55°	5431.7	2194.9	1375.1	1330.2	1266.7	1287.8	1293.1	1272.0	1250.8	1269.3	1253.5
57.5°	3707.5	1549.6	1227.0	1227.0	1163.6	1192.6	1190.0	1139.8	1089.5	1094.8	1084.2
60°	2144.6	1235.0	1131.8	1121.2	1055.1	1078.9	1084.2	1049.8	973.2	978.4	967.9
62.5°	1219.1	1055.1	989.0	973.2	959.9	981.1	981.1	936.1	870.0	875.3	864.7
65°	1036.6	978.4	883.2	880.6	875.3	880.6	859.4	811.8	753.7	729.9	732.5
67.5°	941.4	904.4	811.8	788.0	772.2	769.5	729.9	684.9	658.5	637.3	634.7
70°	825.1	796.0	727.2	695.5	679.6	642.6	602.9	573.8	536.8	526.2	536.8
72.5°	653.2	650.5	624.1	589.7	555.3	526.2	491.9	452.2	417.8	409.9	391.4
75°	452.2	457.5	462.8	457.5	428.4	391.4	351.7	320.0	277.7	253.9	248.6
77.5°	296.2	304.1	312.0	301.5	283.0	248.6	222.1	182.5	150.7	132.2	129.6
80°	216.8	227.4	232.7	224.8	203.6	177.2	148.1	116.4	92.6	76.7	76.7
82.5°	166.6	177.2	182.5	169.2	148.1	126.9	105.8	82.0	63.5	50.2	47.6
85°	58.2	55.5	66.1	68.8	82.0	76.7	63.5	47.6	37.0	26.4	23.8
87.5°	15.9	15.9	18.5	18.5	15.9	13.2	13.2	13.2	10.6	7.9	7.9
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)