

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: P532778

Luminaire Tested: **GALN-SA8A-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532778
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-SA8A-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 26479 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

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



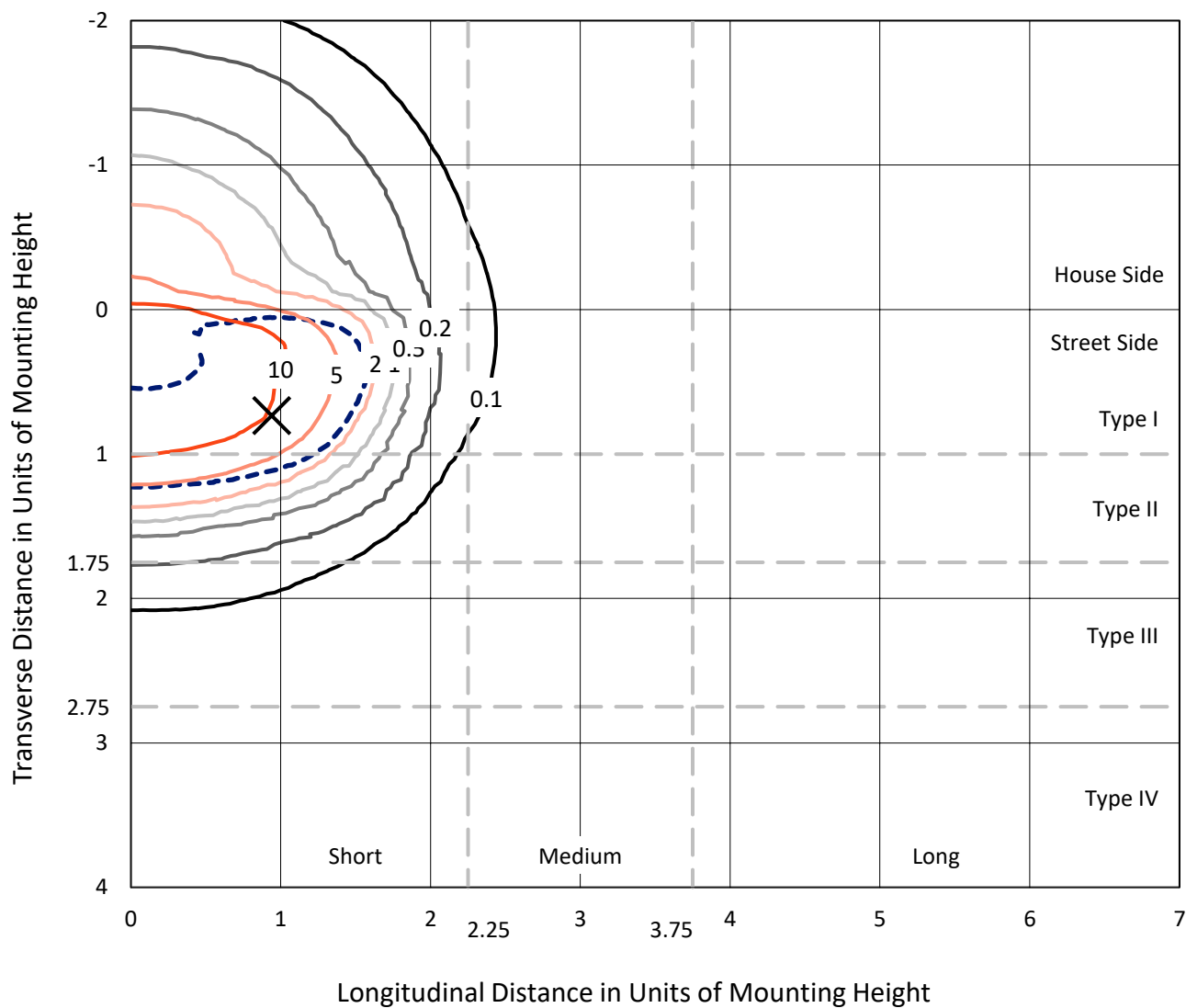
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

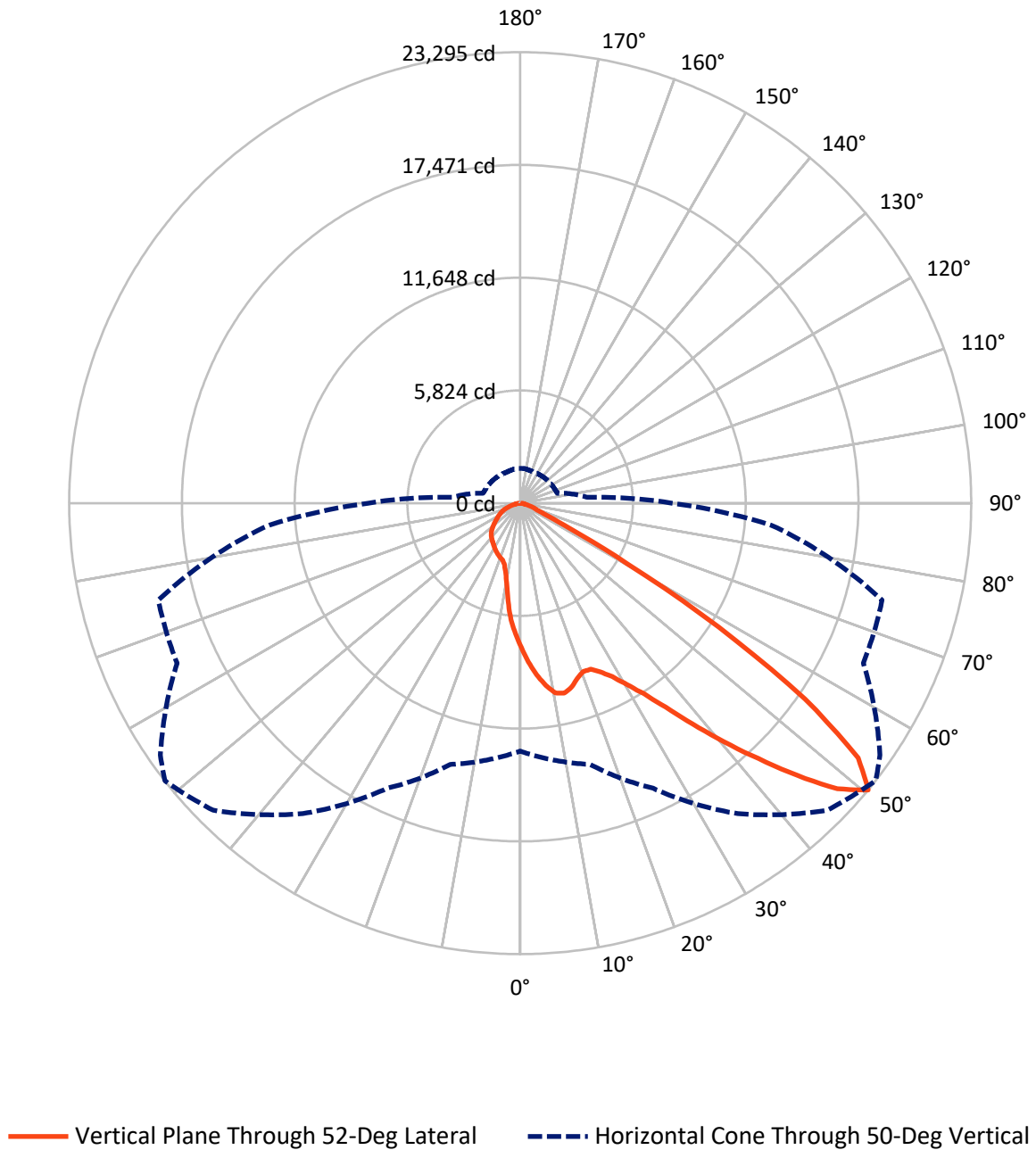


Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4977.4	0.0	4977.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	21501.6	0.0	21501.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	26479.0	0.0	26479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.0	2.6
10°-20°	1843.9	7.0
20°-30°	3106.0	11.7
30°-40°	5212.1	19.7
40°-50°	7973.2	30.1
50°-60°	5813.1	22.0
60°-70°	1293.7	4.9
70°-80°	466.6	1.8
80°-90°	82.6	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°	26479.0	100.0
0°-180°	26479.0	100.0

Coefficient of Utilization



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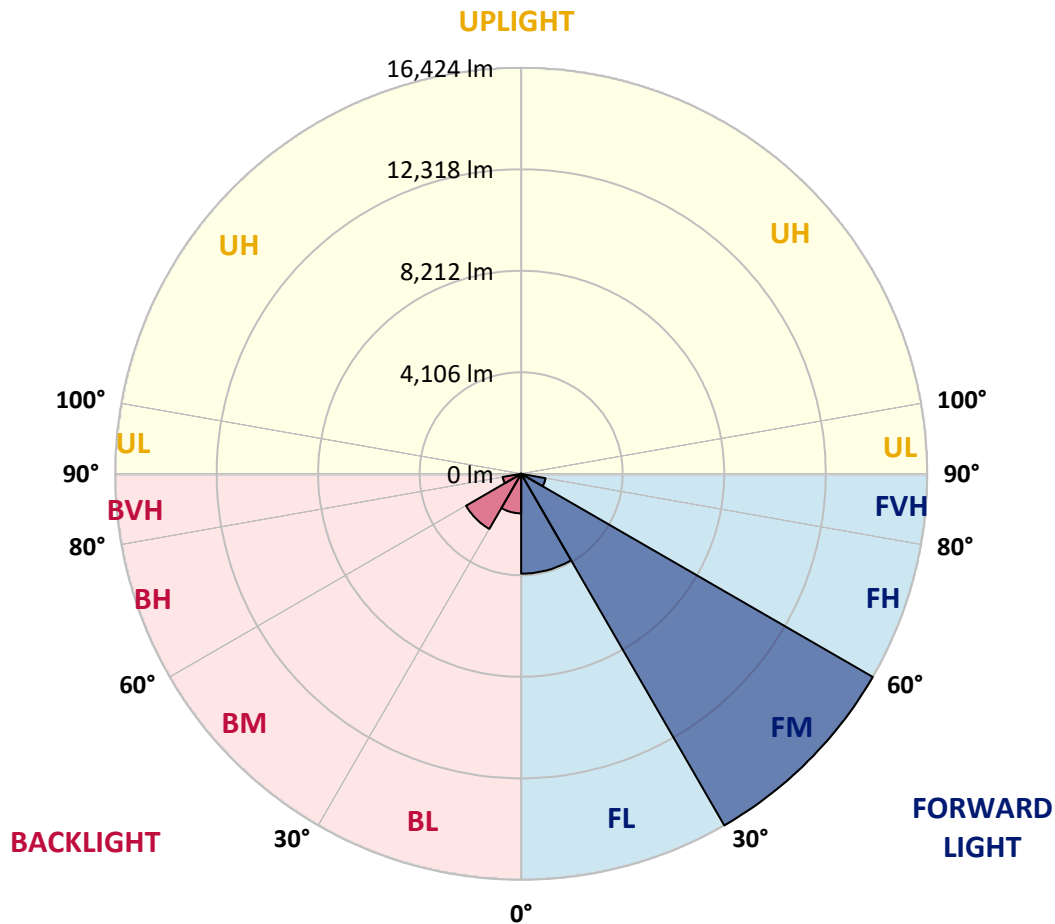
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4039.0	15.3			
FM	(30°-60°)	16423.6	62.0			
FH	(60°-80°)	1002.0	3.8			G1/1800
FVH	(80°-90°)	37.0	0.1			G1/100
BL	(0°-30°)	1598.8	6.0	B3/2500		
BM	(30°-60°)	2574.7	9.7	B3/5000		
BH	(60°-80°)	758.3	2.9	B2/1000		G2/1000
BVH	(80°-90°)	45.6	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°	7464.0	7464.0	7464.0	7464.0	7464.0	7464.0	7464.0	7464.0	7464.0	7464.0	7464.0
2.5°	8788.3	8619.2	8638.3	8517.1	8386.2	8347.9	8213.9	8086.3	7990.5	7786.3	7598.0
5°	9605.2	9554.2	9477.6	9381.8	9282.9	9040.4	8903.2	8743.6	8392.6	8076.7	7764.0
7.5°	9723.3	9713.7	9755.2	9755.2	9790.3	9697.8	9503.1	9391.4	9018.1	8504.3	7923.5
10°	8893.6	8922.3	9123.4	9385.0	9748.8	10000.9	9969.0	9940.3	9531.8	8829.8	8111.8
12.5°	8233.0	8169.2	8287.3	8510.7	9056.4	9665.9	10077.5	10080.7	9975.4	9349.9	8249.0
15°	7859.7	7904.4	7936.3	8041.6	8453.2	9158.5	9882.8	10096.7	10559.4	9716.9	8466.0
17.5°	8099.0	7949.0	7942.7	7968.2	8178.8	8708.5	9522.3	9889.2	10878.5	10189.2	8734.1
20°	8411.7	8408.6	8319.2	8287.3	8284.1	8756.4	9286.1	9783.9	11047.6	10801.9	9005.3
22.5°	8960.6	8960.6	8813.8	8743.6	8593.6	8979.8	9318.0	9656.3	11328.4	11223.1	9136.1
25°	9879.7	9729.7	9477.6	9305.3	9219.1	9356.3	9656.3	9959.4	11574.1	11669.9	9407.4
27.5°	10728.5	10492.3	10367.9	10071.1	9956.2	9876.5	10150.9	10457.2	11861.3	12365.5	9554.2
30°	11692.2	11650.7	11427.3	11044.4	10760.4	10613.6	10865.7	11168.9	12387.9	13077.1	9892.4
32.5°	13415.4	13038.8	12735.7	12266.6	11803.9	11491.2	11740.1	11941.1	13262.2	13820.7	10262.6
35°	15275.8	15154.6	14631.2	13785.6	13077.1	12796.3	12943.1	13093.1	14280.2	14956.7	10884.9
37.5°	17104.3	16938.4	16507.6	15796.0	14934.4	14363.2	14468.5	14644.0	15422.6	16488.4	11644.3
40°	18419.0	18214.8	17997.8	17892.5	17037.3	16255.5	16194.9	16239.5	16967.1	17924.4	12486.8
42.5°	18514.8	18766.9	18833.9	19258.3	19057.3	18415.9	18042.5	18052.1	18441.4	19344.5	13338.8
45°	18313.7	18080.8	18575.4	19733.8	20397.5	20697.5	20068.9	19989.1	19354.0	20167.8	13763.2
47.5°	16204.4	16268.2	17104.3	18936.0	20853.9	22194.1	22047.3	21782.5	19842.3	20139.1	13696.2
50°	12809.1	13195.2	13970.7	16252.3	19577.4	22430.3	23295.1	22682.4	19551.9	19347.7	13013.3
52.5°	8529.8	8689.4	9200.0	12145.3	15741.7	20049.7	21859.1	21999.5	19283.8	18310.6	12148.5
55°	3797.4	3784.6	4502.6	6343.9	9876.5	15256.7	17860.6	18715.8	18253.1	17254.3	11306.1
57.5°	1608.3	1662.6	1956.1	2741.2	4856.9	9206.3	12100.7	12850.6	14037.7	14168.5	8673.4
60°	1088.2	1094.5	1174.3	1372.2	2032.7	4323.9	6347.1	7247.0	8095.8	8038.4	4601.6
62.5°	855.2	877.6	938.2	1018.0	1206.2	1962.5	2840.1	3341.1	3395.3	2856.0	1745.5
65°	730.8	734.0	794.6	861.6	944.6	1142.4	1369.0	1394.5	1410.5	1359.4	1282.8
67.5°	603.1	609.5	657.4	734.0	810.5	874.4	938.2	970.1	1043.5	1187.1	1167.9
70°	478.7	488.2	529.7	593.5	663.7	702.0	781.8	810.5	877.6	989.2	1033.9
72.5°	363.8	367.0	402.1	446.8	510.6	548.9	615.9	647.8	692.5	788.2	829.7
75°	261.7	271.2	296.8	319.1	328.7	354.2	418.0	453.1	517.0	558.4	561.6
77.5°	137.2	143.6	150.0	150.0	181.9	229.8	271.2	290.4	335.1	367.0	351.0
80°	54.2	57.4	73.4	98.9	127.6	165.9	194.7	204.2	242.5	261.7	271.2
82.5°	31.9	35.1	47.9	70.2	92.5	118.1	140.4	150.0	175.5	197.8	204.2
85°	16.0	19.1	28.7	44.7	60.6	73.4	70.2	67.0	67.0	63.8	67.0
87.5°	6.4	6.4	9.6	9.6	9.6	12.8	16.0	16.0	16.0	19.1	19.1
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°	7464.0	7464.0	7464.0	7464.0	7464.0	7464.0	7464.0	7464.0	7464.0	7464.0	7464.0
2.5°	7473.6	7345.9	7227.8	7010.9	6774.7	6707.7	6433.3	6334.3	6264.1	6181.2	6155.6
5°	7511.9	7342.7	6963.0	6525.8	6178.0	5731.2	5437.6	5121.7	4892.0	4834.5	4818.6
7.5°	7591.6	7301.2	6647.1	5986.5	5274.9	4668.6	4205.9	3957.0	3736.8	3724.0	3701.7
10°	7681.0	7176.8	6302.4	5265.3	4355.9	3794.2	3516.6	3408.1	3353.8	3341.1	3334.7
12.5°	7754.4	7151.3	5916.3	4563.3	3704.9	3366.6	3283.6	3274.1	3296.4	3302.8	3315.6
15°	7786.3	7049.1	5450.4	3934.6	3299.6	3175.1	3210.3	3248.5	3264.5	3306.0	3274.1
17.5°	7846.9	6918.3	4876.0	3436.8	3073.0	3095.4	3156.0	3200.7	3226.2	3254.9	3213.4
20°	7878.8	6800.2	4336.7	3140.0	2993.3	3034.7	3117.7	3152.8	3184.7	3197.5	3149.6
22.5°	7850.1	6557.7	3861.2	2900.7	2916.7	2970.9	3044.3	3082.6	3063.5	3012.4	2983.7
25°	7773.5	6216.3	3366.6	2747.5	2808.2	2903.9	2961.3	2932.6	2897.5	2868.8	2859.2
27.5°	7770.3	5798.2	3009.2	2607.1	2715.6	2846.5	2827.3	2801.8	2817.7	2795.4	2769.9
30°	7786.3	5393.0	2715.6	2527.4	2648.6	2712.4	2734.8	2709.2	2728.4	2686.9	2699.7
32.5°	7703.3	4997.3	2524.2	2434.8	2568.8	2565.6	2639.0	2658.2	2613.5	2527.4	2540.1
35°	7738.4	4678.2	2361.4	2393.3	2479.5	2479.5	2536.9	2514.6	2396.5	2345.5	2358.2
37.5°	7980.9	4365.4	2281.6	2335.9	2393.3	2418.9	2399.7	2304.0	2275.3	2275.3	2281.6
40°	8210.7	4097.4	2233.8	2323.1	2313.6	2329.5	2189.1	2198.7	2198.7	2201.9	2185.9
42.5°	8414.9	3915.5	2195.5	2246.5	2262.5	2179.5	2093.4	2083.8	2106.1	2102.9	2090.2
45°	8488.3	3765.5	2141.2	2160.4	2173.1	2035.9	1994.4	1975.3	2000.8	2010.4	2023.2
47.5°	8207.5	3641.0	2080.6	2042.3	2016.8	1927.4	1873.2	1838.1	1870.0	1924.2	1937.0
50°	7846.9	3478.3	1984.9	1911.5	1857.2	1818.9	1780.6	1745.5	1767.9	1806.2	1796.6
52.5°	7314.0	3223.0	1863.6	1787.0	1694.5	1704.0	1668.9	1649.8	1662.6	1662.6	1653.0
55°	6554.5	2648.6	1659.4	1605.1	1528.5	1554.1	1560.4	1534.9	1509.4	1531.7	1512.6
57.5°	4473.9	1870.0	1480.7	1480.7	1404.1	1439.2	1436.0	1375.4	1314.7	1321.1	1308.4
60°	2588.0	1490.2	1365.8	1353.0	1273.3	1302.0	1308.4	1266.9	1174.3	1180.7	1167.9
62.5°	1471.1	1273.3	1193.5	1174.3	1158.4	1183.9	1183.9	1129.7	1049.9	1056.3	1043.5
65°	1250.9	1180.7	1065.8	1062.6	1056.3	1062.6	1037.1	979.7	909.5	880.7	883.9
67.5°	1136.0	1091.4	979.7	950.9	931.8	928.6	880.7	826.5	794.6	769.1	765.9
70°	995.6	960.5	877.6	839.3	820.1	775.4	727.6	692.5	647.8	635.0	647.8
72.5°	788.2	785.0	753.1	711.6	670.1	635.0	593.5	545.7	504.2	494.6	472.3
75°	545.7	552.1	558.4	552.1	517.0	472.3	424.4	386.1	335.1	306.3	300.0
77.5°	357.4	367.0	376.6	363.8	341.4	300.0	268.1	220.2	181.9	159.6	156.4
80°	261.7	274.4	280.8	271.2	245.7	213.8	178.7	140.4	111.7	92.5	92.5
82.5°	201.0	213.8	220.2	204.2	178.7	153.2	127.6	98.9	76.6	60.6	57.4
85°	70.2	67.0	79.8	83.0	98.9	92.5	76.6	57.4	44.7	31.9	28.7
87.5°	19.1	19.1	22.3	22.3	19.1	16.0	16.0	16.0	12.8	9.6	9.6
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)