

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: P647123

Luminaire Tested: **GALN-SA8C-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647123
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-SA8C-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA 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: 26221.1 lumens
Efficiency: N/A
Efficacy: 61.1 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

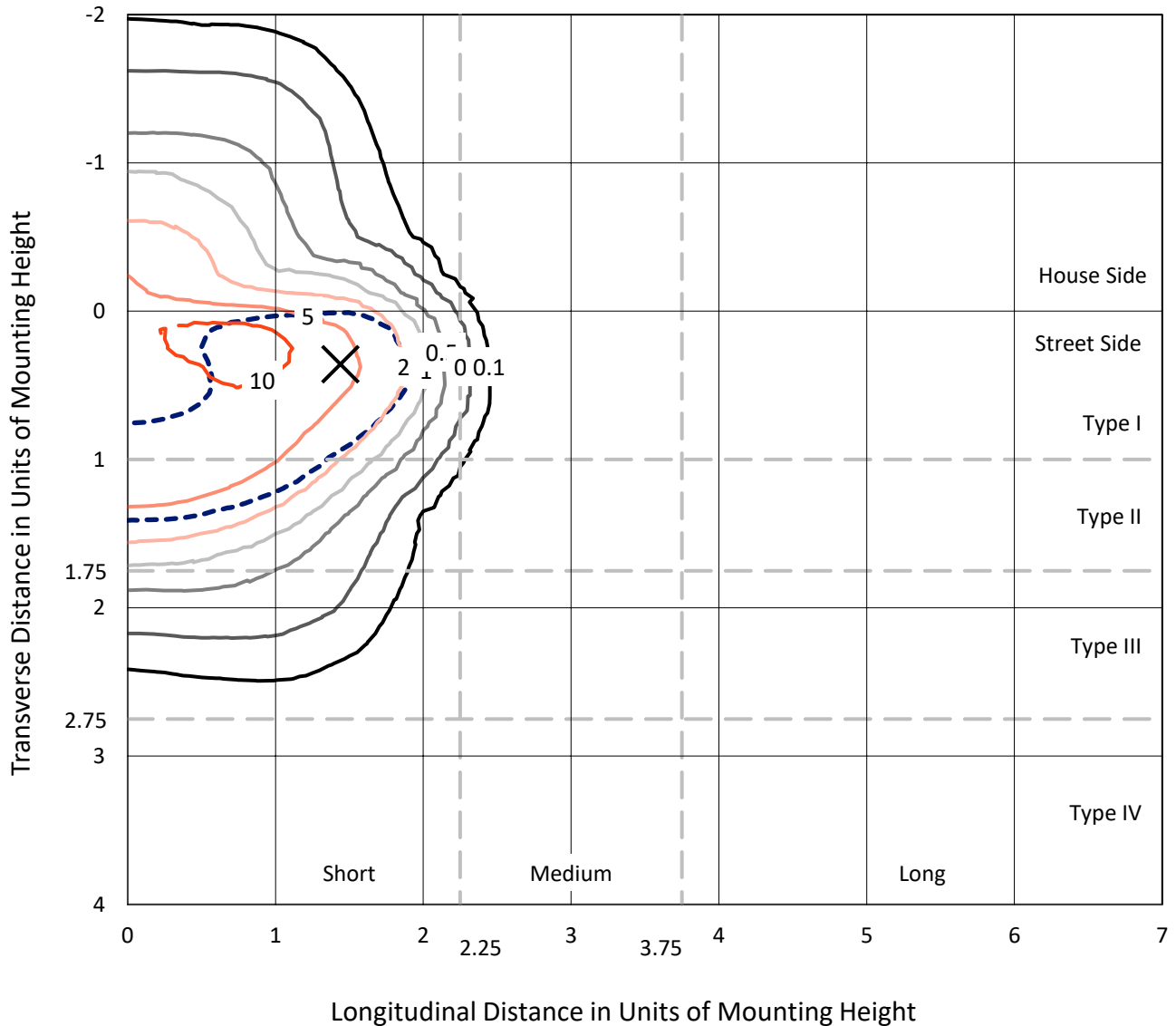
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

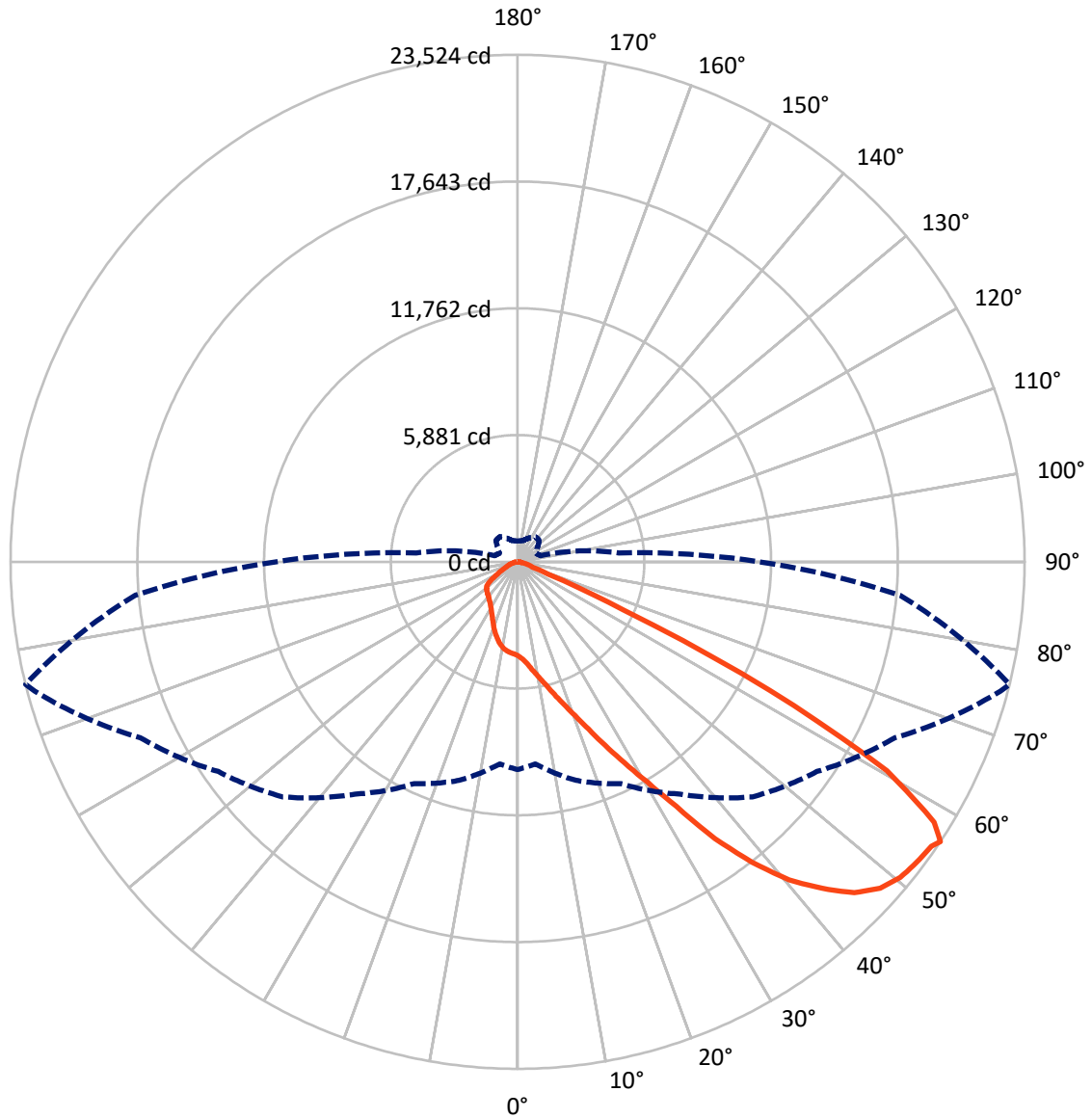
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA8C-835-U-T2-GRSBK

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	4119.2	0.0	4119.2
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	22101.9	0.0	22101.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	26221.1	0.0	26221.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.7	1.7
10°-20°	1412.5	5.4
20°-30°	2561.2	9.8
30°-40°	4416.9	16.8
40°-50°	7175.5	27.4
50°-60°	7563.2	28.8
60°-70°	2310.9	8.8
70°-80°	296.2	1.1
80°-90°	45.0	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°	26221.1	100.0
0°-180°	26221.1	100.0

Coefficient of Utilization

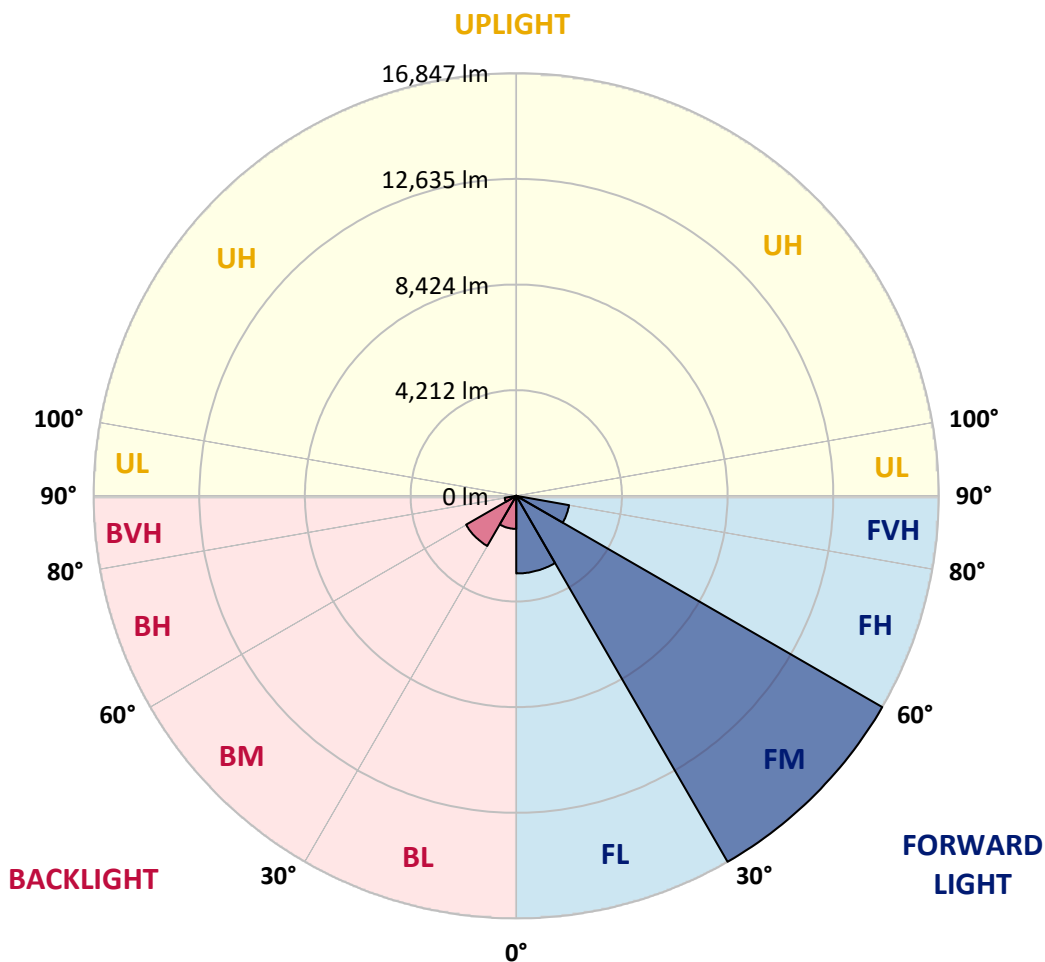


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3095.6	11.8			
FM (30°-60°)	16847.0	64.2			
FH (60°-80°)	2137.2	8.2			G2/5000
FVH (80°-90°)	22.1	0.1			G1/100
BL (0°-30°)	1317.7	5.0	B3/2500		
BM (30°-60°)	2308.6	8.8	B2/2500		
BH (60°-80°)	469.9	1.8	B1/500		G1/500
BVH (80°-90°)	23.0	0.1			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°	55°	65°	75°	76°	85°
0°	4364.5	4364.5	4364.5	4364.5	4364.5	4364.5	4364.5	4364.5	4364.5	4364.5	4364.5
2.5°	5026.7	4910.7	4915.5	4905.9	4891.4	4838.2	4678.7	4654.5	4548.2	4519.2	4422.5
5°	5630.9	5529.4	5587.4	5500.4	5418.2	5369.9	5108.9	4988.0	4818.9	4756.0	4620.7
7.5°	6007.9	5959.6	5940.2	5945.1	5867.7	5746.9	5630.9	5365.0	5137.9	5089.6	4804.4
10°	6191.6	6162.5	6191.6	6177.1	6210.9	6225.4	6022.4	5862.9	5529.4	5447.3	5002.6
12.5°	6235.0	6293.0	6317.2	6380.0	6462.3	6602.4	6587.9	6370.4	5925.7	5872.6	5307.0
15°	6341.4	6389.7	6365.6	6467.0	6621.8	6858.5	6984.2	6950.4	6471.9	6375.3	5659.9
17.5°	6438.1	6351.1	6433.2	6636.2	6790.9	7153.4	7457.9	7598.1	7066.4	6955.2	5983.7
20°	6568.6	6544.4	6529.9	6631.4	6906.9	7390.3	7994.4	8250.5	7733.4	7617.4	6447.7
22.5°	6964.9	6969.7	6960.1	6810.2	7008.4	7554.5	8463.2	9096.4	8530.9	8434.2	6974.6
25°	7486.9	7424.1	7375.7	7254.9	7230.8	7704.4	8936.9	10130.8	9487.9	9420.3	7544.9
27.5°	8037.9	8037.9	7892.9	7781.8	7627.0	8076.6	9372.0	11136.1	10643.1	10551.2	8042.7
30°	8637.3	8671.1	8651.8	8414.9	8318.3	8482.6	9816.6	12421.8	11967.5	11851.4	8864.4
32.5°	9521.7	9449.2	9531.5	9333.3	9048.1	9193.1	10517.4	13572.1	13688.2	13523.8	9942.3
35°	10691.5	10647.9	10594.8	10270.9	9932.6	10048.6	11508.3	14988.3	15848.6	15766.5	11029.8
37.5°	11740.3	11716.1	11672.7	11450.3	11058.8	11198.9	12634.5	16462.5	17956.0	17685.3	12566.8
40°	12842.3	12972.8	12832.6	12634.5	12276.8	12586.1	13958.8	17337.3	19729.9	19401.2	13741.3
42.5°	14335.8	14234.3	14297.1	13934.7	13741.3	14079.7	15288.0	18212.2	21107.4	20715.8	14988.3
45°	15926.0	15930.8	15761.6	15645.7	15143.0	15510.3	16104.8	18695.5	22204.5	21900.0	15930.8
47.5°	16945.8	16941.0	17124.7	17308.4	16791.2	16428.7	16660.7	19154.7	22770.0	22629.9	16274.0
50°	16786.3	16834.7	17071.5	17757.8	18028.5	17540.4	17182.7	19019.4	23026.2	23011.7	16568.8
52.5°	14601.6	14761.1	15157.5	16148.4	17511.3	18115.5	17728.8	19270.6	23151.9	23176.1	17008.6
55°	11116.8	11203.8	11957.8	13161.3	14669.3	16738.0	17511.3	19468.8	23248.5	23292.1	17540.4
56°	9642.6	9410.6	10498.1	11353.6	13156.4	15418.4	16960.3	19314.2	23190.6	23524.1	17806.2
57.5°	7279.1	7124.4	8004.1	9072.2	10807.4	13195.1	15249.3	18584.3	22799.1	22794.2	17424.3
60°	4427.4	4272.7	4949.3	5577.7	6549.2	8124.9	10304.7	14799.8	19275.5	19681.5	14108.6
62.5°	2634.2	2730.9	3397.8	3779.7	4093.8	4258.2	5331.2	8796.8	12861.6	13151.7	8753.2
65°	1754.5	1788.4	2291.1	2919.3	3059.5	2436.0	2170.2	3562.2	5577.7	5398.9	3610.6
67.5°	1082.7	1160.0	1537.0	2194.4	2431.2	1778.7	1029.5	1329.1	1537.0	1537.0	1044.0
70°	657.3	696.0	1024.7	1493.5	1667.6	1145.5	749.2	749.2	739.5	725.0	623.5
72.5°	314.1	338.3	522.0	768.5	783.0	604.2	580.0	633.1	618.6	613.9	517.2
75°	135.3	145.0	183.7	241.6	275.5	256.2	352.8	454.4	468.9	454.4	372.2
77.5°	43.5	48.3	67.7	87.0	91.8	111.2	149.9	188.5	217.5	203.0	183.7
80°	4.9	9.6	19.3	43.5	67.7	87.0	111.2	125.7	140.2	140.2	130.5
82.5°	4.9	4.9	19.3	38.7	62.8	82.1	106.3	120.8	140.2	145.0	135.3
85°	0.0	4.9	14.5	33.8	53.2	53.2	48.3	48.3	33.8	33.8	33.8
87.5°	0.0	0.0	4.9	4.9	4.9	9.6	9.6	9.6	9.6	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4364.5	4364.5	4364.5	4364.5	4364.5	4364.5	4364.5	4364.5	4364.5	4364.5	4364.5
2.5°	4403.2	4393.6	4263.0	4180.9	4137.4	4050.4	3997.2	3958.5	3929.6	3895.7	3900.5
5°	4461.2	4427.4	4209.9	4060.0	3881.2	3784.6	3702.3	3634.7	3591.2	3581.5	3562.2
7.5°	4625.6	4446.7	4118.0	3847.3	3620.2	3523.5	3451.0	3407.5	3426.9	3383.3	3417.2
10°	4751.2	4485.4	4006.8	3615.3	3388.2	3315.7	3277.0	3310.8	3359.2	3339.9	3315.7
12.5°	4905.9	4524.0	3828.0	3393.1	3180.4	3127.2	3194.9	3257.7	3354.4	3393.1	3344.7
15°	5079.9	4567.6	3600.9	3136.9	3001.6	3045.0	3161.0	3272.2	3368.9	3417.2	3446.2
17.5°	5292.5	4553.1	3378.6	2933.8	2832.3	2958.0	3098.2	3199.7	3344.7	3417.2	3397.8
20°	5490.7	4504.7	3132.0	2730.9	2735.7	2851.7	2967.7	3132.0	3209.4	3306.1	3272.2
22.5°	5679.3	4417.7	2875.9	2590.7	2590.7	2769.5	2827.5	2933.8	3001.6	3049.9	3045.0
25°	5945.1	4253.4	2663.2	2455.3	2513.4	2629.4	2677.7	2711.5	2682.6	2721.2	2726.0
27.5°	6133.6	4084.2	2489.2	2334.5	2440.8	2527.8	2513.4	2494.0	2426.4	2373.2	2407.0
30°	6336.6	3886.0	2339.4	2252.4	2310.3	2387.7	2329.7	2271.7	2165.4	2078.3	2083.2
32.5°	6626.5	3794.2	2208.8	2155.7	2233.0	2242.7	2179.9	2092.9	1986.5	1904.3	1899.5
35°	7167.9	3736.2	2097.7	2092.9	2107.4	2112.2	2049.3	1943.0	1899.5	1831.8	1856.0
37.5°	7709.3	3707.2	2020.4	2001.0	1996.2	2001.0	1928.5	1827.1	1909.2	1904.3	1914.0
40°	8400.4	3837.7	1909.2	1885.0	1889.8	1889.8	1798.0	1769.0	1914.0	1928.5	1933.4
42.5°	9101.3	4002.1	1836.7	1759.3	1778.7	1778.7	1730.4	1696.5	1798.0	1701.4	1686.8
45°	9710.3	4243.7	1759.3	1633.7	1682.0	1706.2	1691.7	1633.7	1570.9	1406.5	1406.5
47.5°	9908.4	4456.4	1667.6	1512.8	1551.5	1657.8	1614.3	1493.5	1382.3	1247.0	1237.4
50°	10256.4	4688.4	1595.0	1372.7	1454.8	1585.3	1541.9	1421.0	1295.3	1198.7	1203.5
52.5°	10614.1	4954.2	1459.7	1208.3	1309.9	1527.3	1527.3	1392.0	1198.7	1131.0	1121.3
55°	11150.6	4944.6	1218.0	990.8	1169.6	1440.3	1464.5	1247.0	1073.0	1019.9	1019.9
56°	11227.9	4722.2	1097.1	928.0	1106.8	1416.2	1421.0	1208.3	1024.7	966.7	966.7
57.5°	10647.9	4263.0	961.8	850.7	1029.5	1372.7	1377.5	1174.5	986.0	903.8	894.2
60°	8192.6	2885.5	802.3	758.8	932.9	1237.4	1261.5	1068.2	865.1	802.3	797.5
62.5°	4625.6	1599.8	705.6	686.4	802.3	1053.7	1126.2	932.9	734.7	700.9	710.5
65°	2112.2	879.7	594.5	555.9	647.7	812.0	908.7	768.5	604.2	565.5	565.5
67.5°	773.4	599.3	507.5	439.8	454.4	526.8	589.7	497.8	401.2	343.2	357.7
70°	551.0	502.7	444.7	381.9	352.8	343.2	338.3	280.3	198.2	154.6	164.4
72.5°	444.7	415.7	372.2	323.8	275.5	232.0	198.2	145.0	91.8	62.8	58.0
75°	319.0	304.5	270.7	232.0	193.3	164.4	135.3	91.8	48.3	24.2	24.2
77.5°	164.4	164.4	159.5	145.0	120.8	96.7	77.4	53.2	29.0	9.6	9.6
80°	125.7	135.3	140.2	125.7	111.2	87.0	62.8	38.7	19.3	4.9	4.9
82.5°	120.8	140.2	149.9	130.5	111.2	82.1	62.8	38.7	19.3	4.9	4.9
85°	29.0	29.0	43.5	48.3	62.8	67.7	53.2	33.8	14.5	4.9	4.9
87.5°	9.6	9.6	9.6	9.6	9.6	9.6	4.9	4.9	4.9	4.9	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)