

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: P530452

Luminaire Tested: **GALN-SA5C-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24585 lumens
Efficiency: N/A
Efficacy: 91.4 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): 269
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

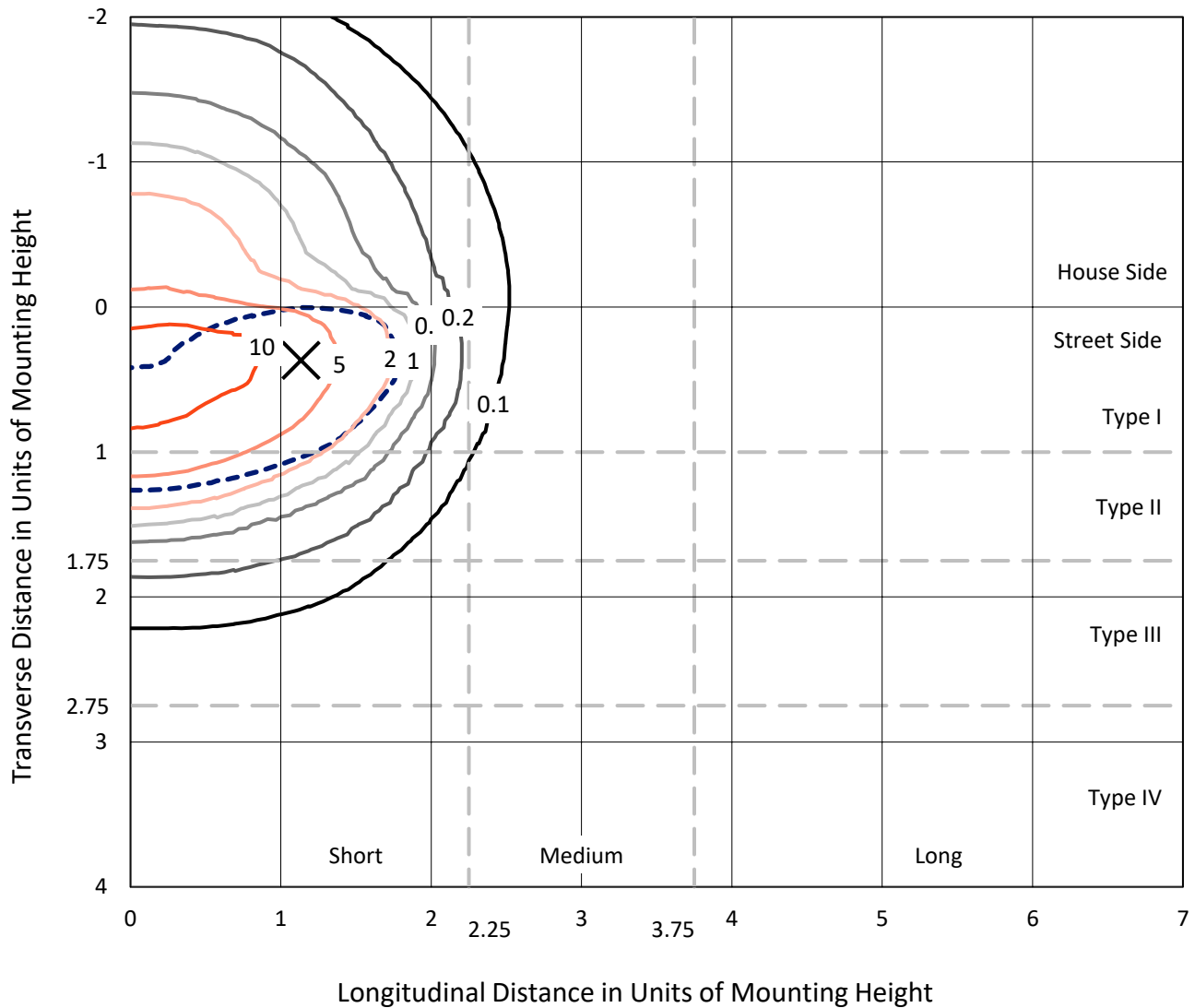


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Iso-Footcandle Lines of Horizontal Illumination

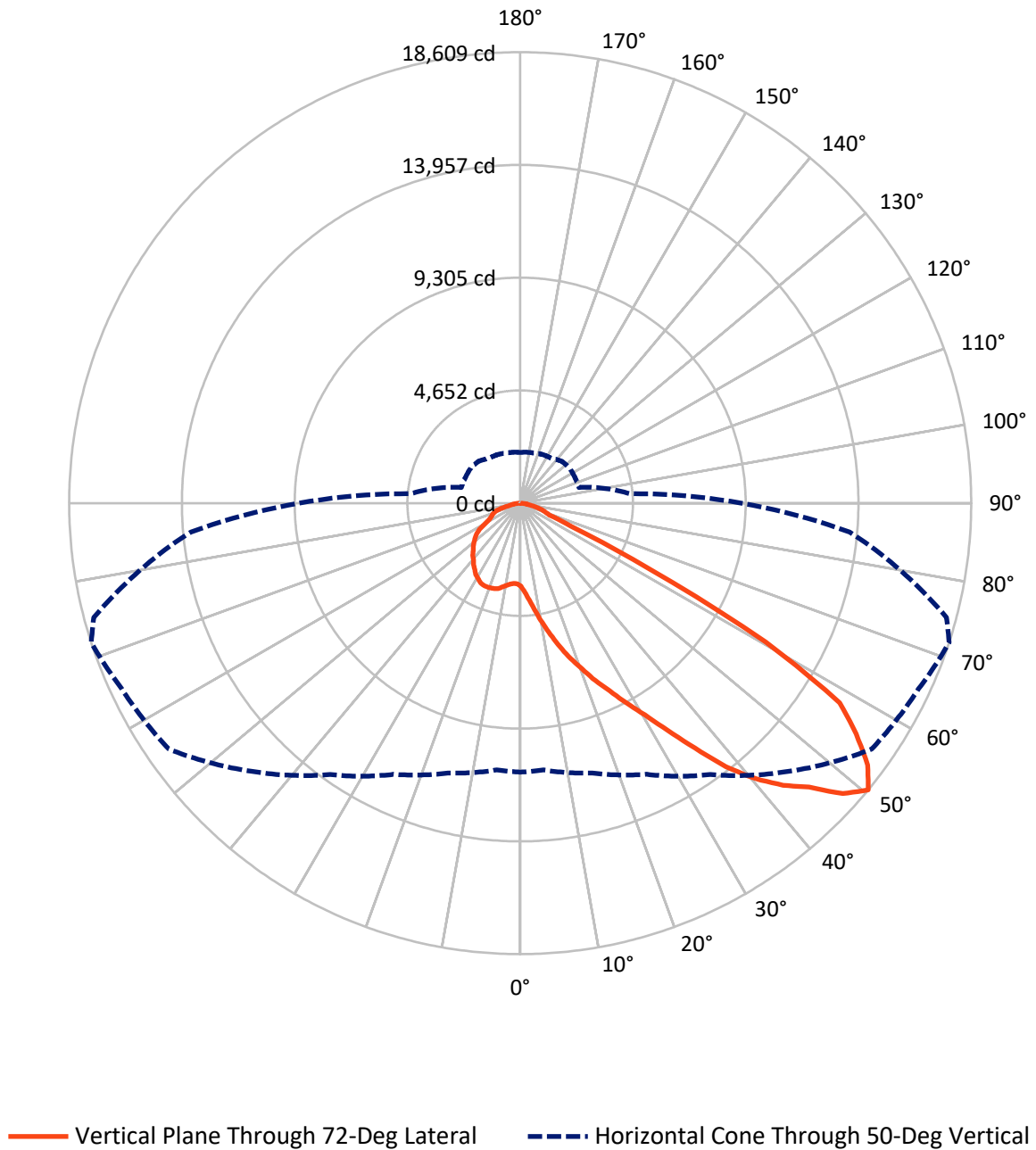
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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	5632.6	0.0	5632.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	18952.4	0.0	18952.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	24585.0	0.0	24585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.6	1.6
10°-20°	1504.9	6.1
20°-30°	2917.9	11.9
30°-40°	4834.0	19.7
40°-50°	6763.9	27.5
50°-60°	5706.2	23.2
60°-70°	1739.2	7.1
70°-80°	610.2	2.5
80°-90°	106.1	0.4
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°	24585.0	100.0
0°-180°	24585.0	100.0

Coefficient of Utilization



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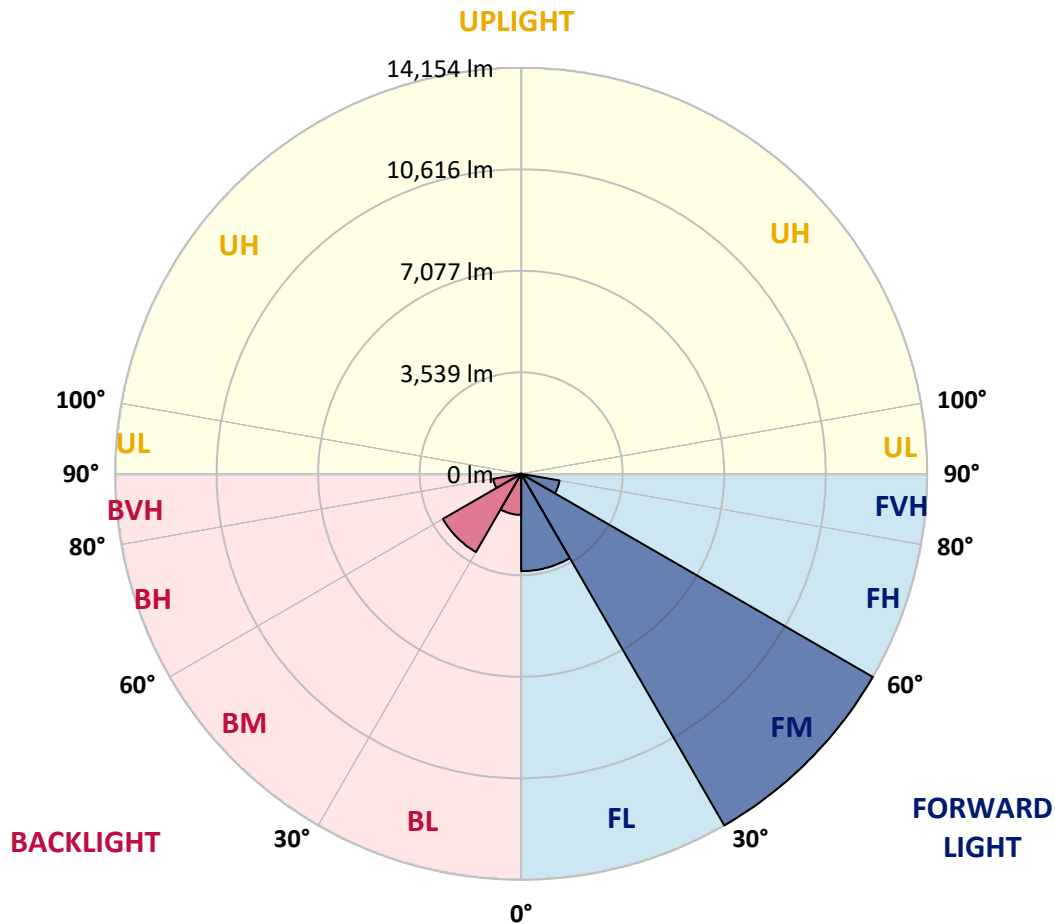
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3393.6	13.8			
FM	(30°-60°)	14154.2	57.6			
FH	(60°-80°)	1357.1	5.5			G1/1800
FVH	(80°-90°)	47.5	0.2			G1/100
BL	(0°-30°)	1431.8	5.8	B3/2500		
BM	(30°-60°)	3149.8	12.8	B3/5000		
BH	(60°-80°)	992.4	4.0	B2/1000		G2/1000
BVH	(80°-90°)	58.6	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°	55°	65°	72°	75°	85°
0°	3422.4	3422.4	3422.4	3422.4	3422.4	3422.4	3422.4	3422.4	3422.4	3422.4	3422.4
2.5°	4402.0	4374.6	4292.5	4265.1	4167.8	3991.3	3930.5	3751.0	3674.9	3605.0	3522.8
5°	5567.2	5439.4	5430.3	5275.1	5050.0	4919.2	4529.8	4268.2	4027.8	3906.1	3681.0
7.5°	6309.5	6312.5	6312.5	6184.7	6005.2	5673.6	5323.8	4852.3	4490.2	4310.8	3927.4
10°	7015.2	6954.4	6920.9	6908.8	6787.1	6464.6	6090.4	5506.3	5010.5	4800.5	4113.0
12.5°	7514.2	7462.4	7538.5	7498.9	7410.7	7200.8	6847.9	6181.7	5561.1	5278.2	4411.1
15°	7751.5	7788.0	7848.8	7958.3	7918.8	7839.7	7450.3	6875.3	6154.3	5834.9	4675.8
17.5°	8116.5	8016.1	8089.1	8226.0	8335.5	8299.0	8077.0	7377.3	6741.4	6349.0	5031.7
20°	8372.1	8314.3	8350.8	8509.0	8591.1	8798.0	8682.4	8034.4	7304.3	6890.5	5451.6
22.5°	9102.2	9017.0	8898.3	8922.7	8953.1	9099.1	9126.5	8755.4	7958.3	7520.2	5850.1
25°	10002.7	9923.6	9783.6	9640.6	9552.4	9525.0	9619.3	9321.2	8585.0	8131.7	6279.0
27.5°	10994.4	10860.5	10772.3	10477.2	10239.9	10203.4	10157.8	9996.6	9327.3	8837.5	6762.7
30°	11958.8	11852.3	11733.7	11262.1	11015.7	10976.2	10751.0	10796.7	10133.5	9588.9	7310.3
32.5°	12688.9	12698.0	12427.3	12071.3	11840.1	11630.2	11548.1	11678.9	11167.8	10729.7	7921.8
35°	13279.1	13306.5	13047.9	12725.4	12475.9	12622.0	12585.5	12646.3	12402.9	11867.5	8633.7
37.5°	13854.0	13717.1	13440.3	13285.2	13154.3	13394.7	13705.0	13756.7	13802.3	13172.6	9461.1
40°	13948.4	13960.5	13799.3	13908.8	13744.5	14106.5	14827.5	14760.6	14946.2	14395.6	10358.6
42.5°	13814.5	13841.9	13905.8	14060.9	14456.4	14891.4	15962.3	15688.5	15913.6	15423.8	11231.7
45°	13595.5	13482.9	13562.0	14152.2	14836.7	15804.1	16999.6	16786.7	16713.7	16303.0	12272.1
47.5°	12549.0	12664.6	12911.0	13638.0	14666.3	15962.3	17735.9	17687.2	17906.2	17617.2	13218.2
50°	11097.8	11052.2	11526.8	12345.1	13671.5	15652.0	17696.3	18137.4	18609.0	18207.4	13641.1
52.5°	8311.2	8554.6	8962.2	9978.3	11870.5	13960.5	16832.3	17568.5	17951.8	17866.7	13300.4
55°	5253.8	5326.8	5573.3	6781.0	8484.6	11204.3	14429.0	16135.7	16820.2	17139.6	12987.0
57.5°	2552.4	2415.5	2716.7	3687.1	4900.9	7535.5	11128.3	14054.8	15542.4	16120.5	12305.6
60°	1332.5	1384.2	1502.8	1849.6	2534.1	3912.2	6936.1	9366.8	11639.3	12527.7	9327.3
62.5°	1104.3	1122.6	1201.7	1375.1	1685.4	2251.2	3541.1	4566.3	5935.3	6735.4	5305.5
65°	937.0	946.1	1031.3	1146.9	1344.6	1585.0	1822.3	1907.4	2309.0	2369.9	1886.1
67.5°	781.8	791.0	882.2	991.7	1119.5	1183.4	1244.2	1238.2	1283.8	1265.5	1262.5
70°	602.3	611.5	705.8	821.4	885.3	848.8	1037.4	1080.0	1098.2	1113.4	1137.8
72.5°	435.0	453.3	526.3	608.4	575.0	660.2	854.8	918.7	943.1	952.2	982.6
75°	316.4	322.5	340.7	316.4	365.1	459.4	602.3	681.4	711.9	721.0	766.6
77.5°	139.9	143.0	146.0	182.5	234.2	286.0	359.0	422.9	465.5	477.6	489.8
80°	73.0	76.1	94.3	124.7	167.3	209.9	261.6	298.1	325.5	328.6	340.7
82.5°	45.6	48.7	66.9	88.2	118.6	155.2	191.7	222.1	243.4	246.4	249.5
85°	21.3	27.4	39.5	54.8	79.1	100.4	103.4	88.2	94.3	97.3	91.3
87.5°	6.1	9.1	12.2	9.1	12.2	12.2	15.2	18.3	18.3	18.3	21.3
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°	3422.4	3422.4	3422.4	3422.4	3422.4	3422.4	3422.4	3422.4	3422.4	3422.4	3422.4
2.5°	3477.2	3449.8	3343.3	3303.8	3200.4	3218.6	3163.9	3160.8	3148.6	3145.6	3142.6
5°	3562.4	3477.2	3349.4	3252.1	3194.3	3188.2	3148.6	3148.6	3160.8	3169.9	3148.6
7.5°	3702.3	3605.0	3389.0	3297.7	3246.0	3236.9	3209.5	3188.2	3215.6	3206.4	3182.1
10°	3863.6	3693.2	3465.0	3385.9	3300.8	3279.5	3279.5	3288.6	3243.0	3258.2	3233.8
12.5°	4043.0	3814.9	3562.4	3471.1	3370.7	3358.6	3352.5	3285.5	3309.9	3297.7	3236.9
15°	4271.2	3954.8	3687.1	3532.0	3446.8	3392.0	3312.9	3300.8	3285.5	3255.1	3227.7
17.5°	4517.6	4106.9	3744.9	3550.2	3422.4	3382.9	3322.1	3258.2	3212.5	3218.6	3197.3
20°	4727.5	4246.9	3766.2	3568.5	3404.2	3328.1	3233.8	3194.3	3145.6	3142.6	3139.5
22.5°	4977.0	4435.5	3796.6	3519.8	3349.4	3270.3	3206.4	3136.5	3103.0	3060.4	3081.7
25°	5275.1	4508.5	3802.7	3492.4	3309.9	3169.9	3136.5	3060.4	3048.3	2987.4	2999.6
27.5°	5491.1	4548.0	3754.0	3407.2	3218.6	3112.1	3051.3	2996.5	2975.2	2929.6	2917.4
30°	5780.1	4608.9	3650.6	3300.8	3127.4	3008.7	2972.2	2960.0	2899.2	2850.5	2844.4
32.5°	6108.7	4648.4	3583.7	3191.2	3033.0	2941.8	2960.0	2902.2	2826.2	2783.6	2771.4
35°	6370.3	4663.6	3416.4	3066.5	2969.2	2911.4	2890.1	2877.9	2768.4	2728.8	2698.4
37.5°	6768.8	4630.2	3276.4	2978.3	2899.2	2877.9	2859.6	2777.5	2652.8	2595.0	2552.4
40°	7234.3	4621.1	3096.9	2853.6	2832.3	2856.6	2801.8	2674.1	2500.7	2436.8	2406.4
42.5°	7681.5	4684.9	2984.4	2786.6	2759.2	2768.4	2692.3	2500.7	2415.5	2379.0	2330.3
45°	8429.9	4818.8	2798.8	2683.2	2671.0	2664.9	2573.7	2372.9	2324.2	2278.6	2269.5
47.5°	9105.2	4730.6	2680.2	2576.7	2588.9	2555.4	2360.7	2296.8	2242.1	2196.4	2181.2
50°	9144.8	4520.7	2512.8	2494.6	2497.6	2439.8	2254.2	2211.7	2141.7	2111.3	2090.0
52.5°	8937.9	4176.9	2357.7	2363.8	2372.9	2278.6	2123.4	2093.0	2035.2	1992.6	1980.5
55°	8356.8	3641.5	2205.6	2229.9	2254.2	2074.8	2026.1	1950.0	1904.4	1843.6	1846.6
57.5°	7362.1	2932.7	1992.6	2032.2	2083.9	1886.1	1849.6	1755.3	1688.4	1639.7	1633.6
60°	4934.4	2086.9	1673.2	1688.4	1804.0	1724.9	1721.9	1627.6	1536.3	1493.7	1469.4
62.5°	2911.4	1594.1	1445.0	1429.8	1426.8	1472.4	1548.5	1515.0	1396.4	1314.2	1338.6
65°	1524.1	1378.1	1344.6	1292.9	1262.5	1250.3	1308.1	1323.3	1244.2	1156.0	1149.9
67.5°	1280.8	1280.8	1253.4	1235.1	1192.5	1140.8	1104.3	1055.6	1043.5	1019.1	988.7
70°	1165.2	1195.6	1186.4	1143.9	1107.4	1049.5	955.2	876.1	800.1	772.7	791.0
72.5°	1016.1	1046.5	1046.5	1025.2	976.5	888.3	797.0	705.8	641.9	593.2	587.1
75°	781.8	797.0	833.6	809.2	745.3	690.6	596.3	502.0	441.1	395.5	386.4
77.5°	498.9	523.3	523.3	520.2	474.6	422.9	362.0	295.1	249.5	216.0	206.9
80°	331.6	346.8	359.0	346.8	316.4	276.8	231.2	185.6	152.1	124.7	118.6
82.5°	243.4	261.6	270.8	258.6	228.2	197.7	164.3	130.8	97.3	76.1	70.0
85°	94.3	97.3	109.5	130.8	127.8	124.7	100.4	73.0	54.8	39.5	36.5
87.5°	24.3	21.3	24.3	24.3	21.3	18.3	18.3	18.3	18.3	9.1	12.2
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)