

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: P529857

Luminaire Tested: **GALN-SA5A-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12975 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

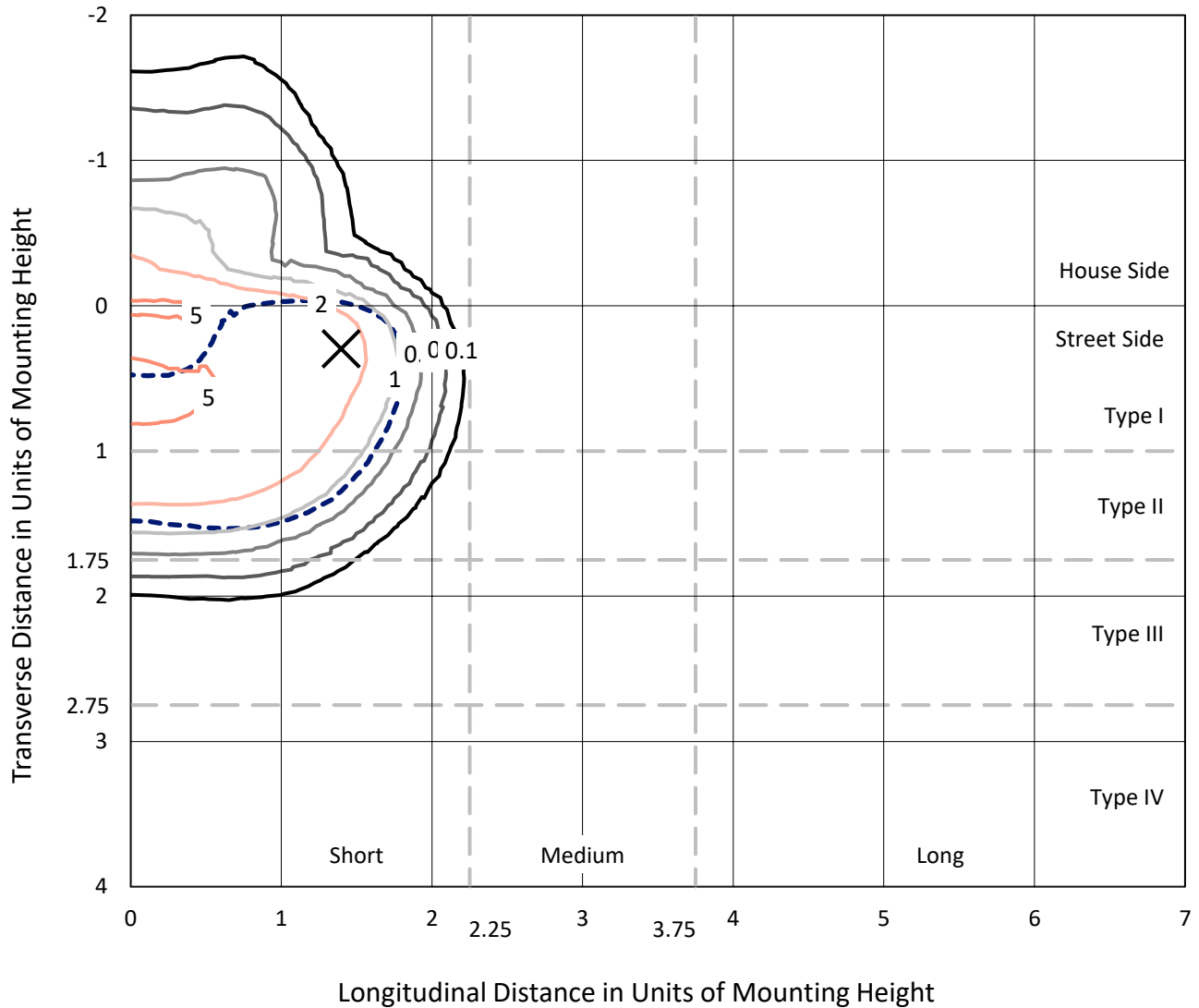
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529857
 CATALOG NUMBER: GALN-SA5A-735-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

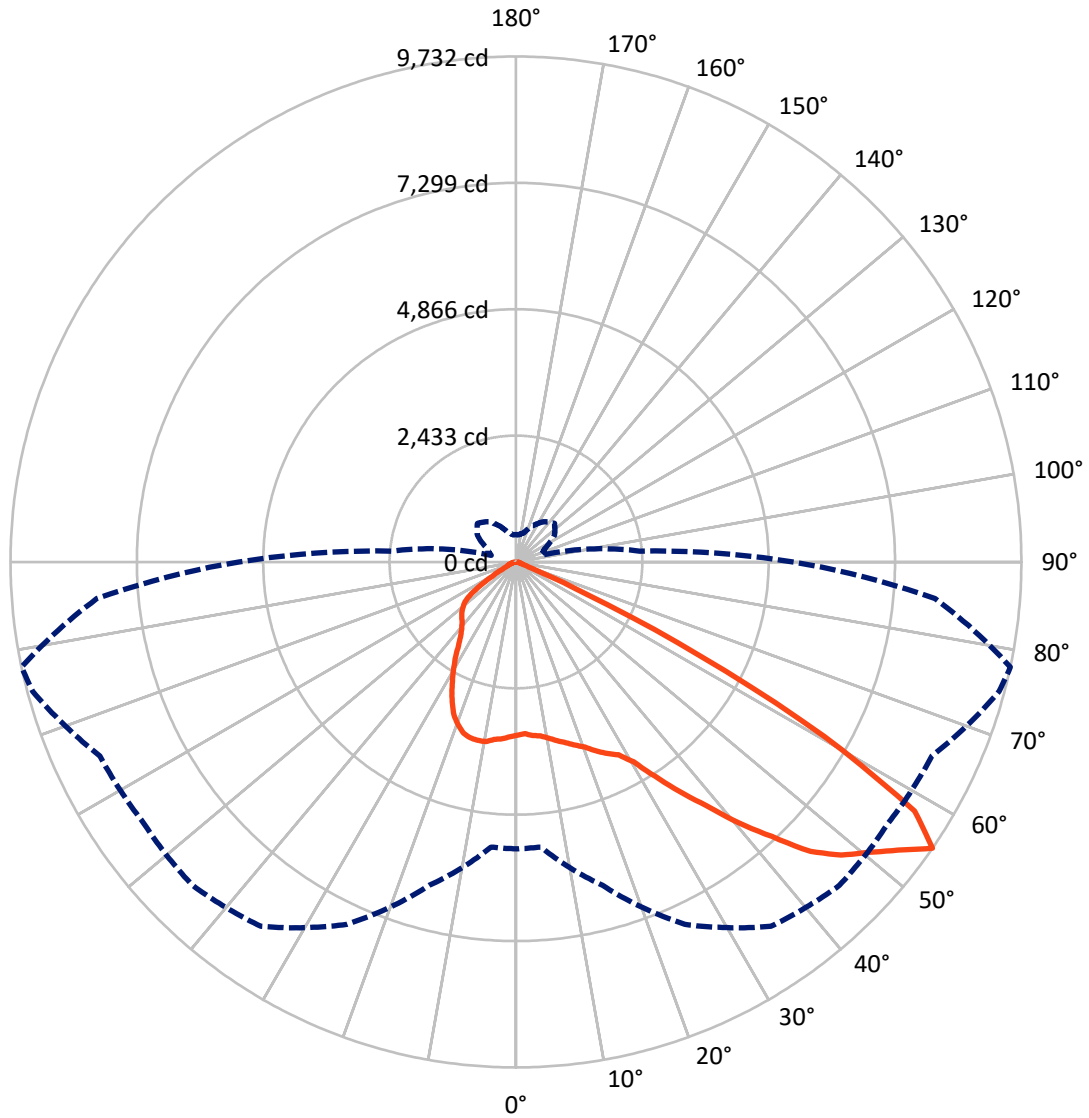
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

REPORT NUMBER: P529857
CATALOG NUMBER: GALN-SA5A-735-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P529857

CATALOG NUMBER: GALN-SA5A-735-U-T3R-GRSBK

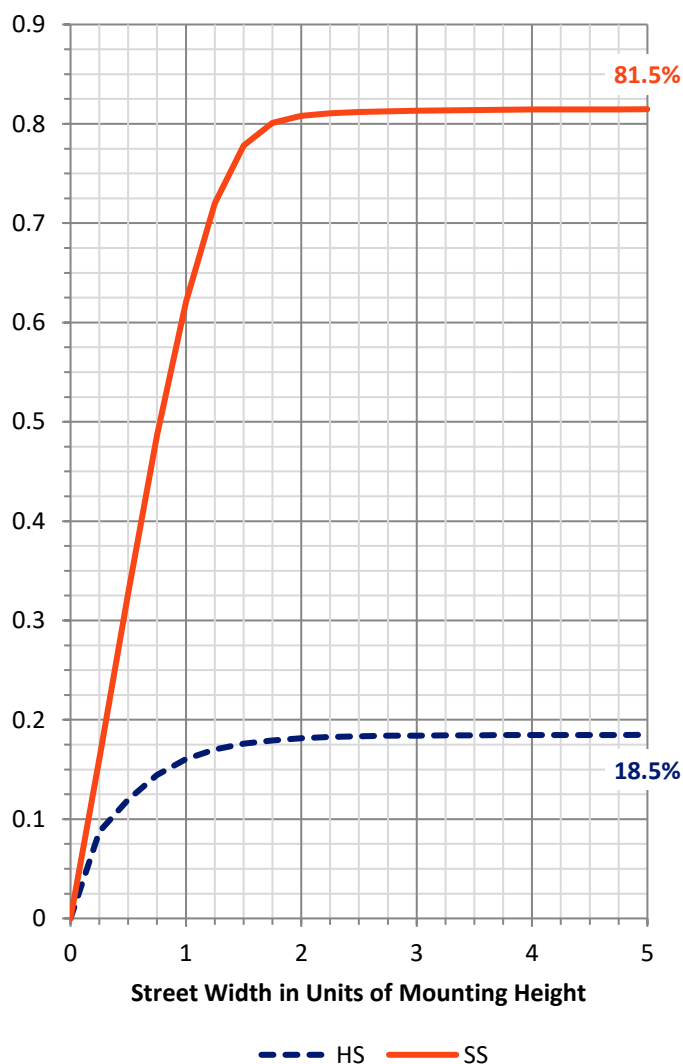
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2410.0	0.0	2410.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	10565.0	0.0	10565.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	12975.0	0.0	12975.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.5	2.3
10°-20°	787.2	6.1
20°-30°	1379.9	10.6
30°-40°	2275.2	17.5
40°-50°	3310.7	25.5
50°-60°	3751.4	28.9
60°-70°	1072.6	8.3
70°-80°	83.3	0.6
80°-90°	17.3	0.1
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°	12975.0	100.0
0°-180°	12975.0	100.0

Coefficient of Utilization



REPORT NUMBER: P529857

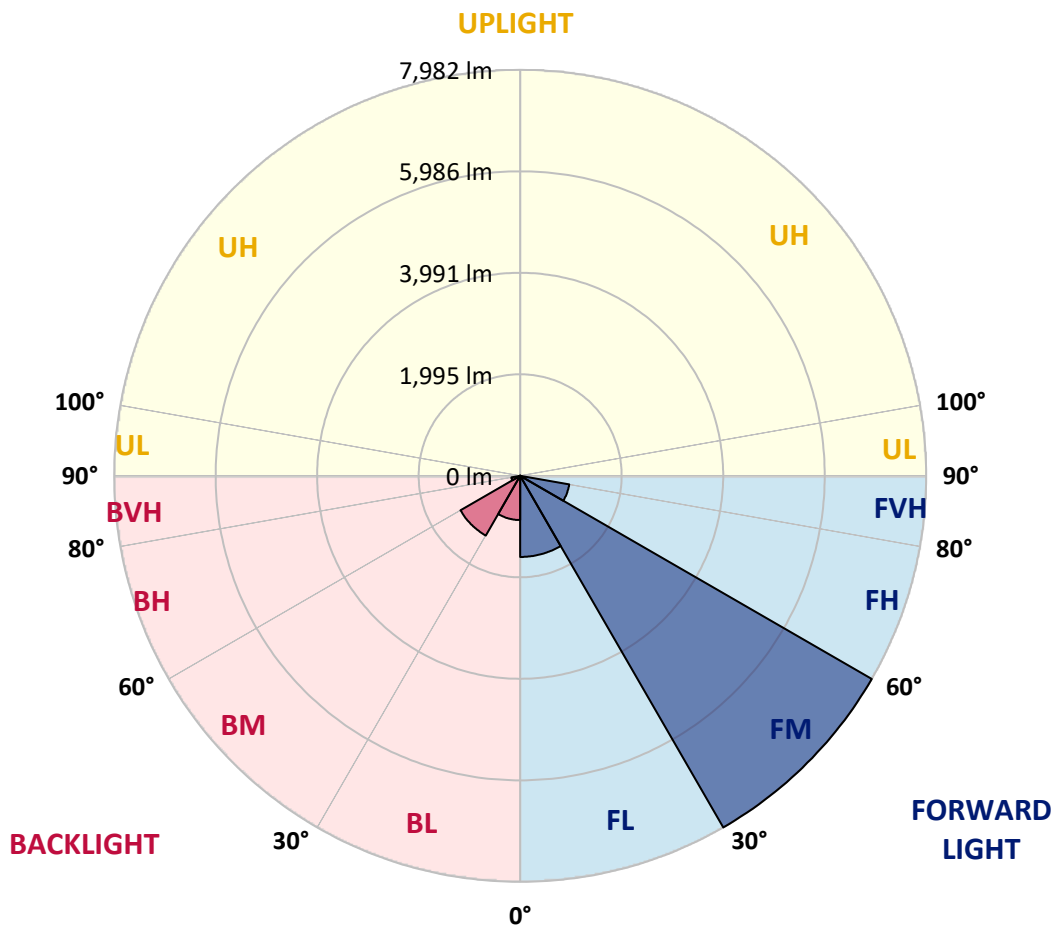
CATALOG NUMBER: GALN-SA5A-735-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1595.0	12.3			
FM (30°-60°)	7981.6	61.5			
FH (60°-80°)	980.0	7.6			G1/1800
FVH (80°-90°)	8.4	0.1			G0/10
BL (0°-30°)	869.5	6.7	B2/1000		
BM (30°-60°)	1355.6	10.4	B2/2500		
BH (60°-80°)	175.9	1.4	B1/500		G1/500
BVH (80°-90°)	8.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P529857

CATALOG NUMBER: GALN-SA5A-735-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9
2.5°	3136.4	3166.5	3171.2	3208.3	3206.0	3268.6	3287.2	3289.5	3331.2	3310.4	3363.7
5°	3048.2	3032.0	3025.0	3090.0	3108.5	3164.2	3210.6	3238.4	3324.3	3354.4	3410.1
7.5°	2969.4	2969.4	2974.0	3032.0	3025.0	3096.9	3145.7	3231.5	3356.8	3382.3	3449.6
10°	2892.8	2865.0	2899.8	2960.1	3011.1	3043.6	3145.7	3226.8	3373.0	3447.2	3540.0
12.5°	2853.4	2867.3	2871.9	2916.0	2971.7	3069.1	3124.8	3259.3	3489.0	3533.1	3632.8
15°	3101.6	3073.7	3006.5	2967.0	3013.4	3059.8	3199.0	3335.9	3549.3	3611.9	3723.3
17.5°	3389.2	3366.0	3310.4	3203.7	3099.3	3185.1	3294.1	3419.4	3614.3	3707.0	3871.8
20°	3765.0	3727.9	3672.3	3463.5	3373.0	3280.2	3396.2	3544.7	3721.0	3804.5	3973.8
22.5°	4212.8	4212.8	4087.5	3834.6	3646.7	3558.6	3607.3	3693.1	3839.3	3952.9	4120.0
25°	4679.0	4665.1	4551.5	4289.3	3971.5	3867.1	3922.8	3983.1	4022.5	4085.2	4196.5
27.5°	5212.6	5131.4	4987.6	4697.6	4416.9	4215.1	4275.4	4222.0	4173.3	4205.8	4365.9
30°	5574.5	5625.5	5442.3	5163.9	4899.4	4674.4	4686.0	4639.6	4416.9	4463.3	4558.4
32.5°	5950.3	5982.8	5880.7	5727.6	5463.1	5201.0	5105.9	5066.5	4899.4	4920.3	4827.5
35°	6263.5	6326.1	6235.6	6168.4	6091.8	5880.7	5618.6	5746.2	5477.1	5426.0	5184.8
37.5°	6551.1	6532.6	6639.3	6569.7	6553.5	6405.0	6117.3	6142.8	5961.9	5950.3	5671.9
40°	6808.6	6813.3	6959.4	6991.9	6926.9	6662.5	6244.9	6446.7	6592.9	6606.8	6249.6
42.5°	7022.1	7084.7	7210.0	7472.1	7374.7	6933.9	6377.1	6597.5	7140.4	7226.2	6797.0
45°	7207.6	7335.2	7490.7	7725.0	7669.3	7319.0	6706.6	6908.4	7725.0	7950.0	7312.0
47.5°	7219.2	7386.3	7555.6	7903.6	7973.2	7525.4	7047.6	7400.2	8188.9	8432.5	7687.8
50°	7172.8	7261.0	7599.7	7977.8	8135.6	7861.8	7525.4	7813.1	8639.0	8792.1	7878.1
52.5°	6623.0	6690.3	7370.0	8047.4	8427.9	8242.3	8158.8	8388.4	9098.3	9211.9	8056.7
55°	5521.1	5509.5	6444.4	7697.1	8562.4	8806.0	8754.9	8836.1	9629.5	9731.6	8100.8
57.5°	3776.6	3987.7	4795.0	6409.6	7738.9	8673.8	8727.1	8592.6	9010.1	9049.6	7061.5
60°	2036.8	2124.9	2774.5	4277.7	5892.3	7068.4	7207.6	6964.1	6931.6	6820.2	5040.9
62.5°	809.6	853.7	1222.5	2118.0	3210.6	4296.3	4595.5	4495.8	4282.4	3990.1	2609.8
65°	385.1	412.9	607.8	990.6	1424.4	1790.9	2090.1	2182.9	1609.9	1449.9	860.6
67.5°	262.1	283.0	443.1	566.0	508.0	531.2	691.3	642.6	378.1	322.5	238.9
70°	199.5	213.4	354.9	385.1	227.3	160.1	178.6	167.0	155.4	157.7	155.4
72.5°	141.5	153.1	259.8	227.3	99.8	74.2	95.1	113.7	113.7	113.7	111.4
75°	85.8	97.4	150.8	88.2	39.4	39.4	60.3	76.6	81.2	83.5	78.9
77.5°	44.1	55.7	51.0	25.5	25.5	30.2	44.1	53.4	58.0	58.0	55.7
80°	9.3	9.3	9.3	13.9	25.5	32.5	44.1	48.7	55.7	55.7	51.0
82.5°	0.0	2.3	7.0	13.9	23.2	30.2	41.8	48.7	55.7	58.0	53.4
85°	0.0	2.3	4.6	9.3	16.2	18.6	16.2	13.9	13.9	13.9	13.9
87.5°	0.0	0.0	2.3	2.3	2.3	4.6	4.6	4.6	4.6	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P529857

CATALOG NUMBER: GALN-SA5A-735-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9	3335.9
2.5°	3368.4	3375.3	3363.7	3361.4	3352.1	3380.0	3312.7	3296.4	3338.2	3298.8	3308.0
5°	3412.4	3428.7	3407.8	3373.0	3322.0	3243.1	3175.8	3087.7	3045.9	3015.7	3011.1
7.5°	3444.9	3456.5	3435.6	3324.3	3171.2	2971.7	2823.2	2714.2	2628.3	2602.8	2561.1
10°	3577.1	3579.5	3475.1	3229.2	2929.9	2667.8	2440.4	2273.4	2187.6	2134.2	2111.0
12.5°	3665.3	3660.7	3449.6	3041.3	2642.3	2294.3	2034.5	1832.6	1753.8	1728.3	1712.0
15°	3776.6	3751.1	3389.2	2848.7	2271.1	1895.3	1661.0	1521.8	1514.8	1498.6	1514.8
17.5°	3864.8	3792.9	3301.1	2498.4	1916.2	1561.2	1408.1	1417.4	1436.0	1452.2	1454.5
20°	4008.6	3860.2	3099.3	2192.2	1586.7	1338.5	1336.2	1378.0	1424.4	1442.9	1461.5
22.5°	4117.7	3888.0	2883.5	1865.1	1317.6	1248.1	1287.5	1350.1	1384.9	1403.5	1431.3
25°	4157.1	3811.4	2595.9	1538.0	1187.7	1206.3	1266.6	1308.4	1352.4	1373.3	1361.7
27.5°	4196.5	3772.0	2252.5	1266.6	1118.1	1178.5	1229.5	1271.3	1285.2	1313.0	1331.6
30°	4291.6	3635.1	1944.0	1094.9	1083.3	1159.9	1197.0	1210.9	1248.1	1264.3	1264.3
32.5°	4368.2	3581.8	1616.9	1013.8	1078.7	1169.2	1173.8	1173.8	1178.5	1166.9	1162.2
35°	4525.9	3398.5	1324.6	965.0	1076.4	1171.5	1183.1	1143.7	1037.0	995.2	983.6
37.5°	4720.8	3280.2	1108.9	953.4	1092.6	1199.3	1217.9	1069.4	930.2	863.0	851.4
40°	4957.4	3196.7	967.4	948.8	1129.7	1264.3	1208.6	1011.4	830.5	733.1	728.4
42.5°	5233.5	3120.1	872.2	946.5	1176.1	1331.6	1199.3	962.7	728.4	663.5	672.7
45°	5453.9	3078.4	807.3	930.2	1192.4	1371.0	1206.3	876.9	686.7	644.9	649.5
47.5°	5625.5	2990.2	753.9	902.4	1190.1	1384.9	1143.7	842.1	665.8	677.4	689.0
50°	5630.2	2871.9	686.7	842.1	1155.3	1359.4	1071.8	809.6	661.1	709.9	733.1
52.5°	5567.5	2704.9	614.7	756.3	1074.1	1271.3	1006.8	795.7	640.3	635.6	663.5
55°	5344.8	2391.7	494.1	612.4	907.0	1048.6	948.8	770.2	577.6	524.3	528.9
57.5°	4319.5	1714.3	364.2	438.4	642.6	767.9	856.0	758.6	519.6	445.4	447.7
60°	2674.7	972.0	266.8	299.3	396.7	466.3	693.6	705.2	464.0	375.8	371.2
62.5°	1373.3	480.2	206.5	211.1	243.6	273.7	475.6	591.6	419.9	357.3	357.3
65°	459.3	236.6	180.9	162.4	162.4	169.3	287.7	410.6	354.9	299.3	299.3
67.5°	197.2	176.3	157.7	141.5	129.9	122.9	162.4	238.9	264.5	227.3	218.1
70°	153.1	148.5	136.9	118.3	102.1	92.8	95.1	122.9	150.8	146.1	141.5
72.5°	113.7	113.7	109.0	92.8	78.9	67.3	62.6	65.0	71.9	74.2	76.6
75°	78.9	81.2	81.2	71.9	58.0	48.7	41.8	34.8	27.8	23.2	20.9
77.5°	53.4	55.7	60.3	53.4	44.1	32.5	25.5	18.6	11.6	4.6	4.6
80°	46.4	53.4	58.0	53.4	46.4	34.8	25.5	13.9	7.0	0.0	0.0
82.5°	48.7	53.4	60.3	51.0	44.1	32.5	25.5	16.2	7.0	2.3	0.0
85°	11.6	11.6	13.9	16.2	20.9	23.2	18.6	11.6	7.0	2.3	0.0
87.5°	4.6	4.6	4.6	4.6	4.6	2.3	2.3	2.3	2.3	0.0	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)