

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: P532323

Luminaire Tested: **GALN-SA7C-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25736 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 377
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



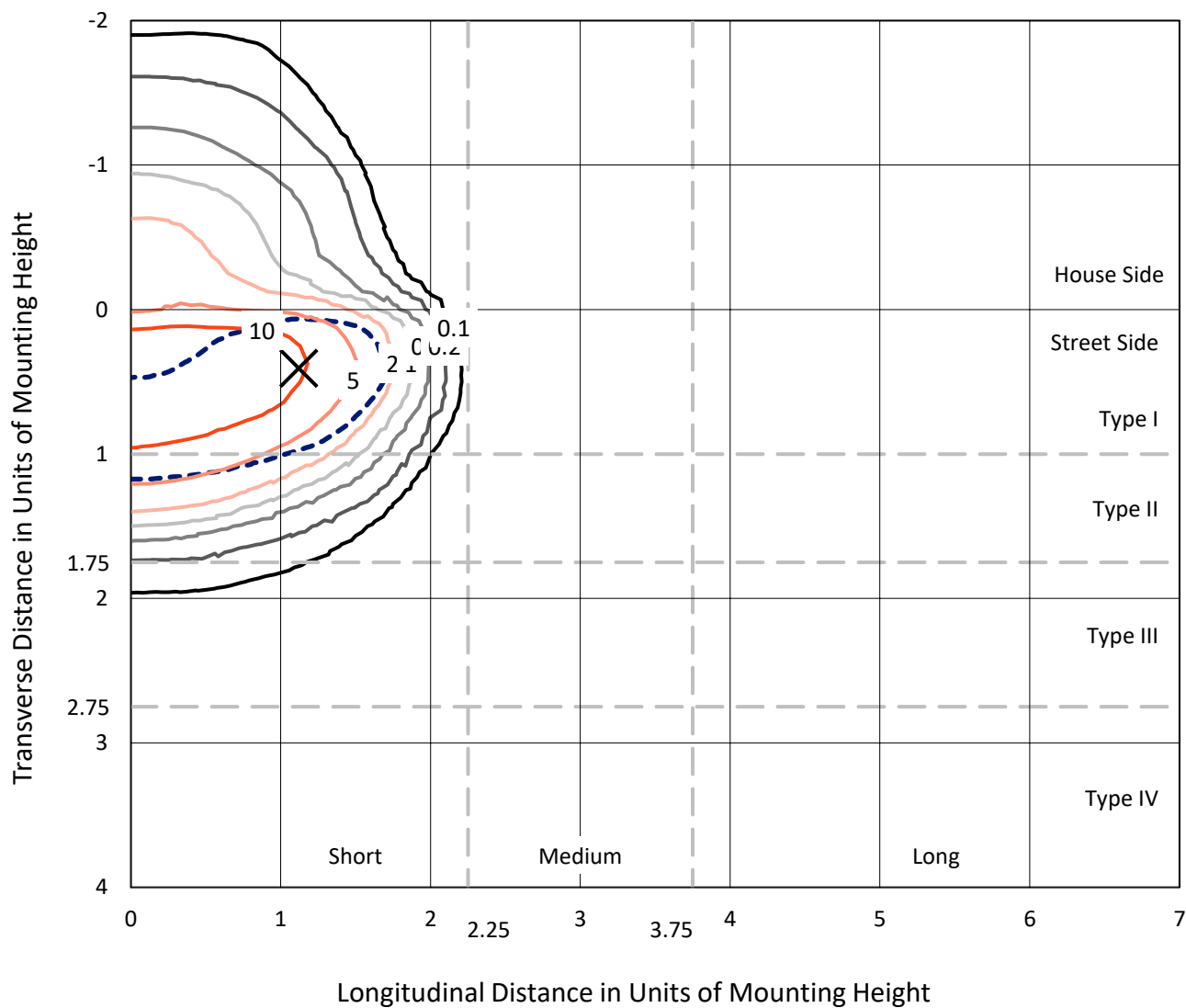
REPORT NUMBER: P532323

CATALOG NUMBER: GALN-SA7C-830-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

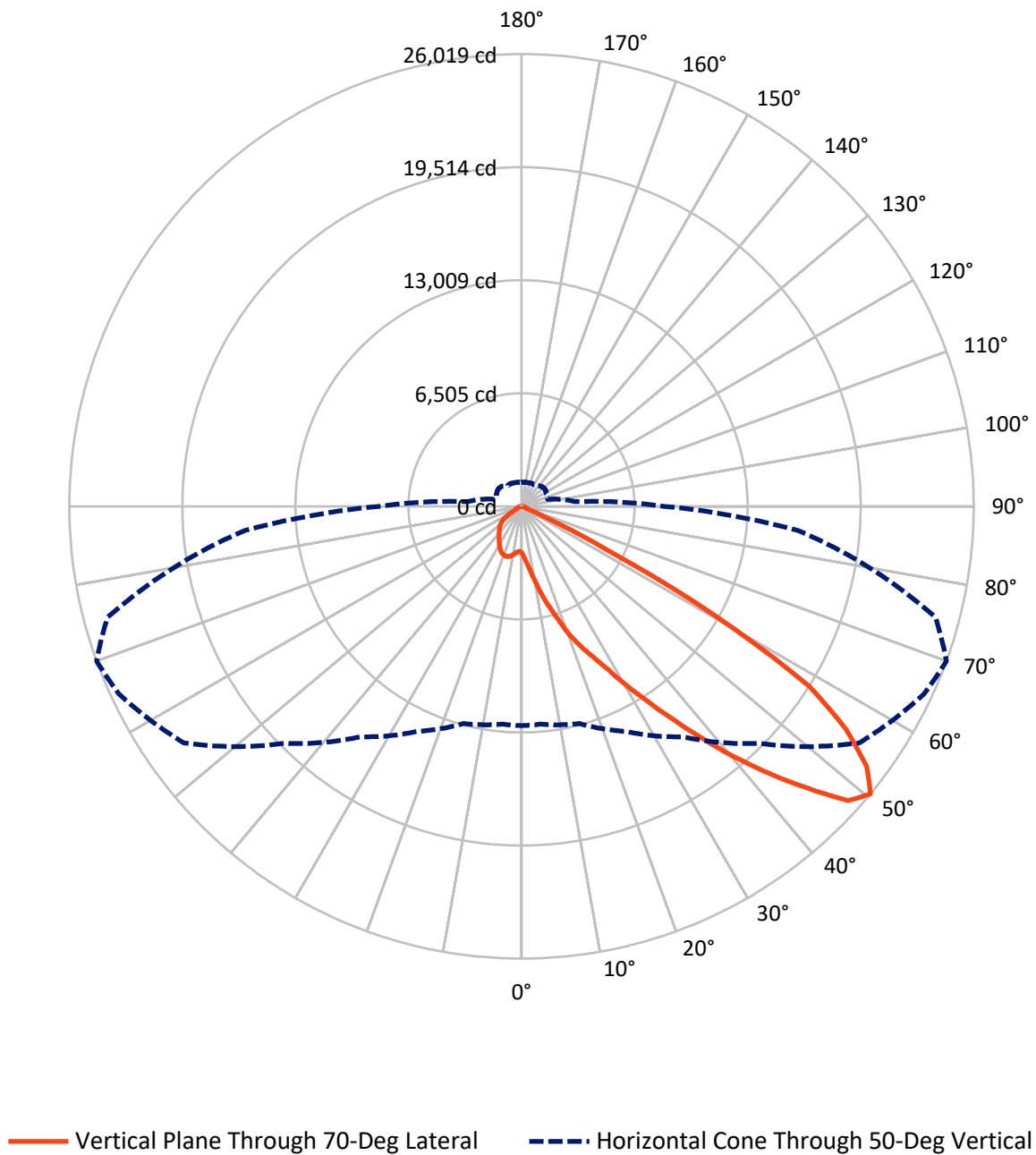


Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type I - Short - N/A

REPORT NUMBER: P532323

CATALOG NUMBER: GALN-SA7C-830-U-T2R-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P532323

CATALOG NUMBER: GALN-SA7C-830-U-T2R-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3594.2	0.0	3594.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	22141.8	0.0	22141.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	25736.0	0.0	25736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.6	1.3
10°-20°	1499.5	5.8
20°-30°	3145.6	12.2
30°-40°	5422.0	21.1
40°-50°	7924.2	30.8
50°-60°	6171.6	24.0
60°-70°	1045.7	4.1
70°-80°	143.6	0.6
80°-90°	37.2	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°	25736.0	100.0
0°-180°	25736.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532323

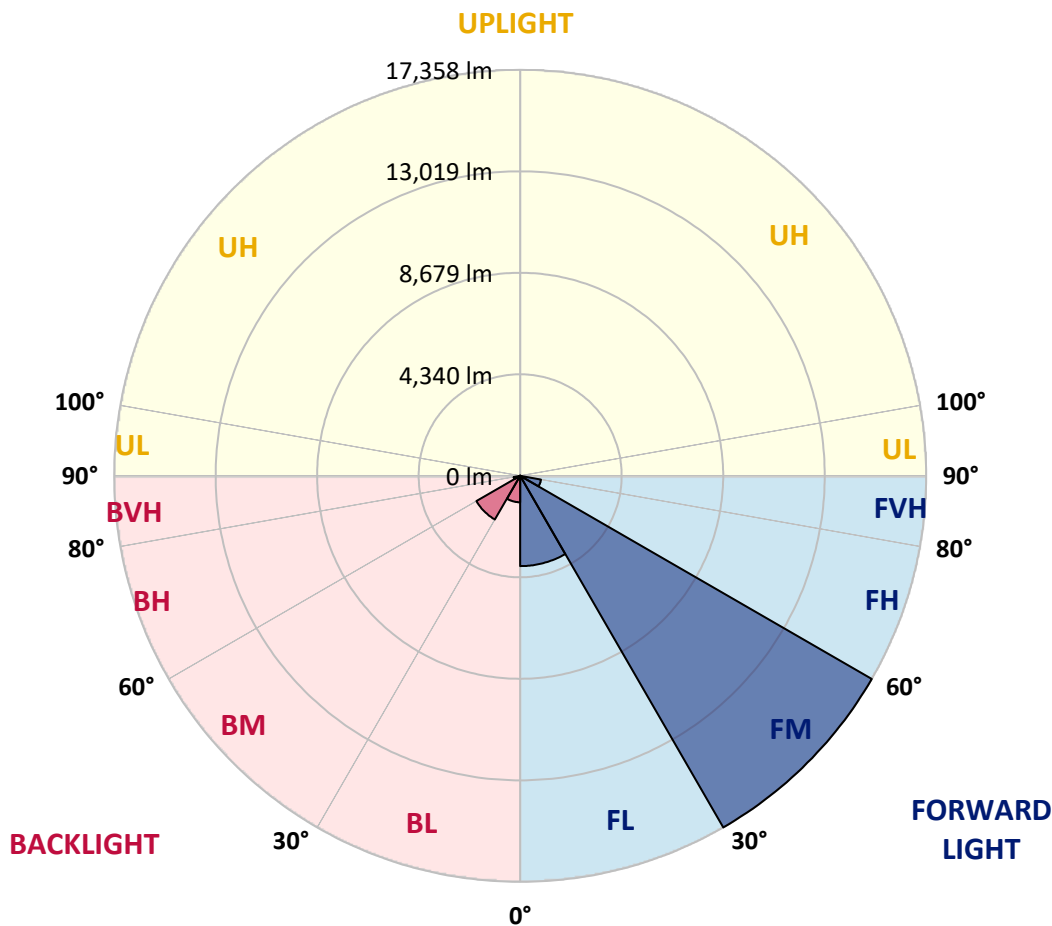
CATALOG NUMBER: GALN-SA7C-830-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3860.7	15.0			
FM	(30°-60°)	17358.5	67.4			
FH	(60°-80°)	905.4	3.5			G1/1800
FVH	(80°-90°)	17.2	0.1			G1/100
BL	(0°-30°)	1131.0	4.4	B3/2500		
BM	(30°-60°)	2159.3	8.4	B2/2500		
BH	(60°-80°)	283.9	1.1	B1/500		G1/500
BVH	(80°-90°)	20.0	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-G1

Type I Short



REPORT NUMBER: P532323

CATALOG NUMBER: GALN-SA7C-830-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2665.7	2665.7	2665.7	2665.7	2665.7	2665.7	2665.7	2665.7	2665.7	2665.7	2665.7
2.5°	3490.9	3465.5	3410.5	3308.9	3266.6	3165.0	3105.8	2991.6	2919.6	2839.2	2750.4
5°	4916.8	4785.6	4705.2	4591.0	4256.7	4049.4	3706.7	3414.7	3279.3	3131.2	2928.1
7.5°	6389.3	6304.7	6194.7	5949.3	5720.8	5289.2	4701.0	4057.9	3782.8	3528.9	3127.0
10°	7607.9	7371.0	7358.3	7176.3	6926.7	6410.5	5703.8	4904.1	4413.3	4040.9	3410.5
12.5°	8458.4	8242.6	8340.0	8318.8	8086.1	7612.2	6795.5	5737.7	5225.7	4646.0	3702.4
15°	9232.8	9143.9	9114.3	9088.9	8995.8	8644.6	7912.6	6753.2	6012.7	5314.6	4032.5
17.5°	9990.2	9761.7	9871.7	9892.9	9884.4	9567.1	8881.6	7718.0	6846.3	6021.2	4379.4
20°	10663.0	10684.1	10536.0	10506.4	10481.0	10468.3	9799.8	8674.2	7870.3	6761.7	4832.2
22.5°	11526.2	11378.1	11509.2	11424.6	11259.6	11158.0	10646.0	9520.5	8758.9	7654.5	5293.4
25°	12545.9	12664.4	12355.5	12321.7	12139.7	11788.5	11327.3	10468.3	9613.6	8483.8	5792.7
27.5°	13802.6	13595.3	13514.9	13328.7	12998.7	12850.6	12309.0	11445.8	10646.0	9355.5	6275.1
30°	14881.6	14826.6	14424.6	14204.6	13916.9	13912.6	13155.2	12770.2	11991.6	10722.2	6939.4
32.5°	15761.7	15520.5	15372.5	15220.1	14987.4	15050.9	14411.9	14208.8	13426.0	11991.6	7722.2
35°	16349.9	16176.4	16087.5	15854.8	15787.1	16070.6	15804.0	15719.4	15076.3	13777.2	8640.4
37.5°	16536.1	16591.1	16574.2	16282.2	16426.1	17191.9	17534.7	17314.6	16976.1	15660.2	9634.8
40°	16701.1	16739.2	16654.5	16997.3	17407.7	18279.4	19519.2	19155.3	19028.3	17568.5	11018.4
42.5°	16794.2	16764.6	16764.6	17356.9	17979.0	19730.7	21436.0	21194.8	21097.5	19599.6	12617.8
45°	16392.2	16104.5	16413.4	17217.3	18469.8	20445.8	22967.7	23302.0	23162.3	22015.7	14488.1
47.5°	14890.1	15067.8	15241.3	16316.0	17873.2	20225.8	23907.1	25045.3	25303.4	24046.7	15715.2
50°	12617.8	12579.8	12939.4	14293.5	16184.9	19278.0	23725.1	25548.8	26018.5	24656.0	15973.3
52.5°	9177.8	9457.0	9846.3	11191.9	13434.5	16823.8	21376.7	24249.8	24876.0	23907.1	15804.0
55°	5344.2	5035.3	5911.2	7049.4	9165.1	12689.8	18072.0	21495.2	22654.6	22544.6	14949.3
57.5°	2141.1	2073.4	2373.8	3198.9	4781.4	7866.1	13142.5	17661.6	19519.2	20648.9	13138.3
60°	939.4	918.2	1079.0	1303.3	1954.9	3626.3	7189.0	10984.6	12922.5	14428.9	9042.4
62.5°	677.0	668.6	748.9	829.3	1032.4	1578.3	3021.2	4426.0	5517.7	6664.4	4049.4
65°	545.8	567.0	622.0	664.3	761.6	875.9	1066.3	1231.3	1510.6	1565.6	892.8
67.5°	444.3	461.2	512.0	558.5	575.5	473.9	490.8	431.6	431.6	385.1	308.9
70°	325.8	330.0	389.3	444.3	355.4	190.4	334.3	334.3	300.4	287.7	262.3
72.5°	241.2	245.4	292.0	275.0	139.6	118.5	245.4	270.8	245.4	232.7	211.6
75°	177.7	181.9	152.3	63.5	59.2	76.2	143.9	186.2	177.7	173.5	160.8
77.5°	33.9	25.4	21.2	29.6	42.3	63.5	93.1	114.2	118.5	126.9	118.5
80°	4.2	4.2	12.7	25.4	46.5	67.7	97.3	110.0	114.2	118.5	110.0
82.5°	0.0	4.2	12.7	25.4	46.5	63.5	84.6	97.3	105.8	110.0	105.8
85°	0.0	4.2	8.5	21.2	38.1	46.5	42.3	29.6	25.4	29.6	21.2
87.5°	0.0	0.0	4.2	4.2	8.5	8.5	8.5	8.5	8.5	8.5	8.5
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: P532323

CATALOG NUMBER: GALN-SA7C-830-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2665.7	2665.7	2665.7	2665.7	2665.7	2665.7	2665.7	2665.7	2665.7	2665.7	2665.7
2.5°	2699.6	2682.7	2623.4	2560.0	2505.0	2530.3	2505.0	2483.8	2492.3	2483.8	2475.3
5°	2847.7	2771.5	2644.6	2589.6	2543.0	2538.8	2526.1	2521.9	2526.1	2526.1	2488.0
7.5°	2987.3	2864.6	2729.2	2670.0	2615.0	2619.2	2589.6	2589.6	2585.3	2564.2	2555.7
10°	3198.9	3033.9	2860.4	2754.6	2686.9	2674.2	2644.6	2615.0	2615.0	2615.0	2572.7
12.5°	3431.6	3224.3	2987.3	2864.6	2784.2	2720.8	2674.2	2665.7	2619.2	2610.7	2589.6
15°	3634.7	3372.4	3072.0	2902.7	2801.1	2716.5	2644.6	2598.0	2576.9	2564.2	2547.3
17.5°	3833.6	3499.3	3118.5	2902.7	2792.7	2695.4	2619.2	2576.9	2526.1	2534.6	2500.7
20°	4100.2	3634.7	3131.2	2847.7	2712.3	2619.2	2517.6	2496.5	2466.9	2441.5	2449.9
22.5°	4358.3	3732.0	3093.1	2780.0	2585.3	2475.3	2424.6	2399.2	2386.5	2365.3	2335.7
25°	4591.0	3837.8	3033.9	2657.3	2449.9	2369.5	2323.0	2318.8	2289.2	2289.2	2234.1
27.5°	4828.0	3875.9	2932.3	2513.4	2331.5	2284.9	2263.8	2255.3	2242.6	2213.0	2174.9
30°	5098.8	3888.6	2784.2	2365.3	2225.7	2174.9	2204.5	2225.7	2170.7	2115.7	2132.6
32.5°	5323.0	3859.0	2606.5	2225.7	2149.5	2124.1	2183.4	2204.5	2141.1	2081.8	2052.2
35°	5593.8	3787.0	2433.0	2115.7	2073.4	2124.1	2174.9	2174.9	2048.0	1976.0	1959.1
37.5°	6004.3	3706.7	2272.2	2022.6	1993.0	2098.7	2166.4	2119.9	1921.0	1832.2	1811.0
40°	6444.3	3655.9	2115.7	1929.5	1950.6	2056.4	2094.5	1950.6	1747.5	1692.5	1675.6
42.5°	7083.3	3554.3	1976.0	1849.1	1912.6	1997.2	1997.2	1739.1	1662.9	1633.3	1629.1
45°	7878.8	3482.4	1853.3	1781.4	1857.6	1878.7	1811.0	1629.1	1574.1	1565.6	1569.8
47.5°	8268.0	3342.8	1726.4	1701.0	1756.0	1760.2	1582.5	1540.2	1493.7	1481.0	1472.5
50°	8208.8	3093.1	1561.4	1595.2	1671.4	1629.1	1442.9	1451.3	1409.0	1404.8	1383.6
52.5°	7794.1	2699.6	1396.3	1476.7	1561.4	1438.7	1328.6	1320.2	1320.2	1265.2	1244.0
55°	6909.8	2174.9	1197.5	1299.0	1400.6	1210.2	1180.5	1172.1	1150.9	1100.1	1087.5
57.5°	5471.1	1595.2	901.3	1011.3	1189.0	1028.2	1024.0	985.9	930.9	892.8	892.8
60°	3253.9	918.2	567.0	617.8	787.0	833.6	926.7	909.7	816.6	757.4	740.5
62.5°	1485.2	473.9	359.7	368.1	423.1	541.6	727.8	842.0	710.9	609.3	600.8
65°	499.3	351.2	296.2	283.5	292.0	325.8	435.8	596.6	567.0	469.7	452.8
67.5°	304.7	313.1	279.3	258.1	258.1	253.9	249.6	270.8	334.3	325.8	330.0
70°	262.3	287.7	258.1	232.7	224.3	211.6	177.7	148.1	126.9	148.1	156.6
72.5°	211.6	228.5	220.0	198.9	177.7	160.8	126.9	97.3	71.9	63.5	63.5
75°	156.6	169.3	177.7	152.3	135.4	114.2	93.1	63.5	38.1	25.4	25.4
77.5°	114.2	126.9	131.2	118.5	101.6	80.4	59.2	42.3	21.2	8.5	8.5
80°	97.3	114.2	126.9	118.5	105.8	76.2	55.0	29.6	16.9	4.2	4.2
82.5°	93.1	114.2	126.9	114.2	101.6	71.9	55.0	33.9	12.7	4.2	4.2
85°	21.2	29.6	38.1	46.5	55.0	55.0	42.3	25.4	12.7	4.2	4.2
87.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	4.2	4.2	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)