

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: P533493

Luminaire Tested: **GALN-SA8D-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533493
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-SA8D-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA 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: 32830 lumens
Efficiency: N/A
Efficacy: 66.6 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): 493
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

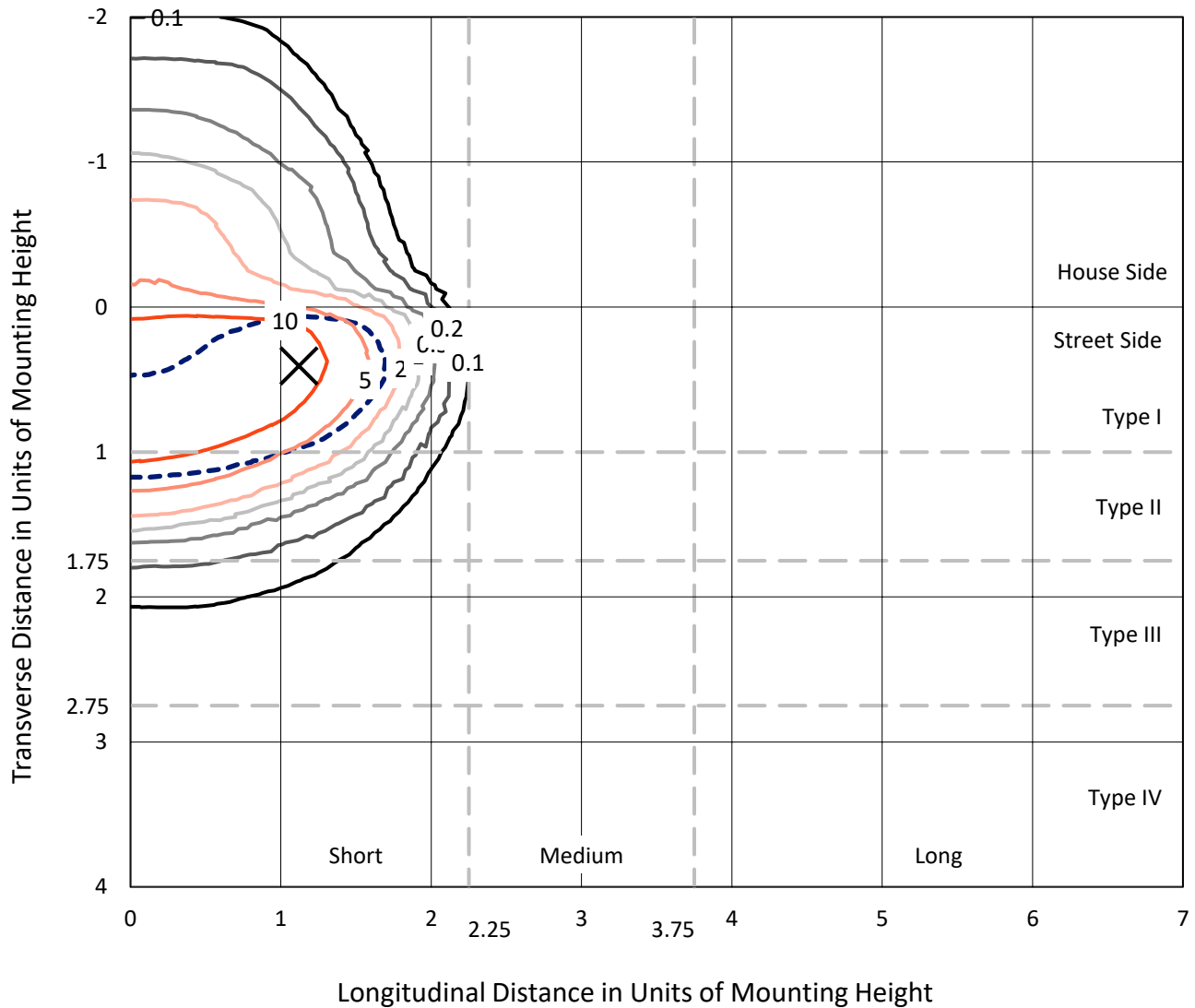


REPORT NUMBER: P533493

CATALOG NUMBER: GALN-SA8D-830-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

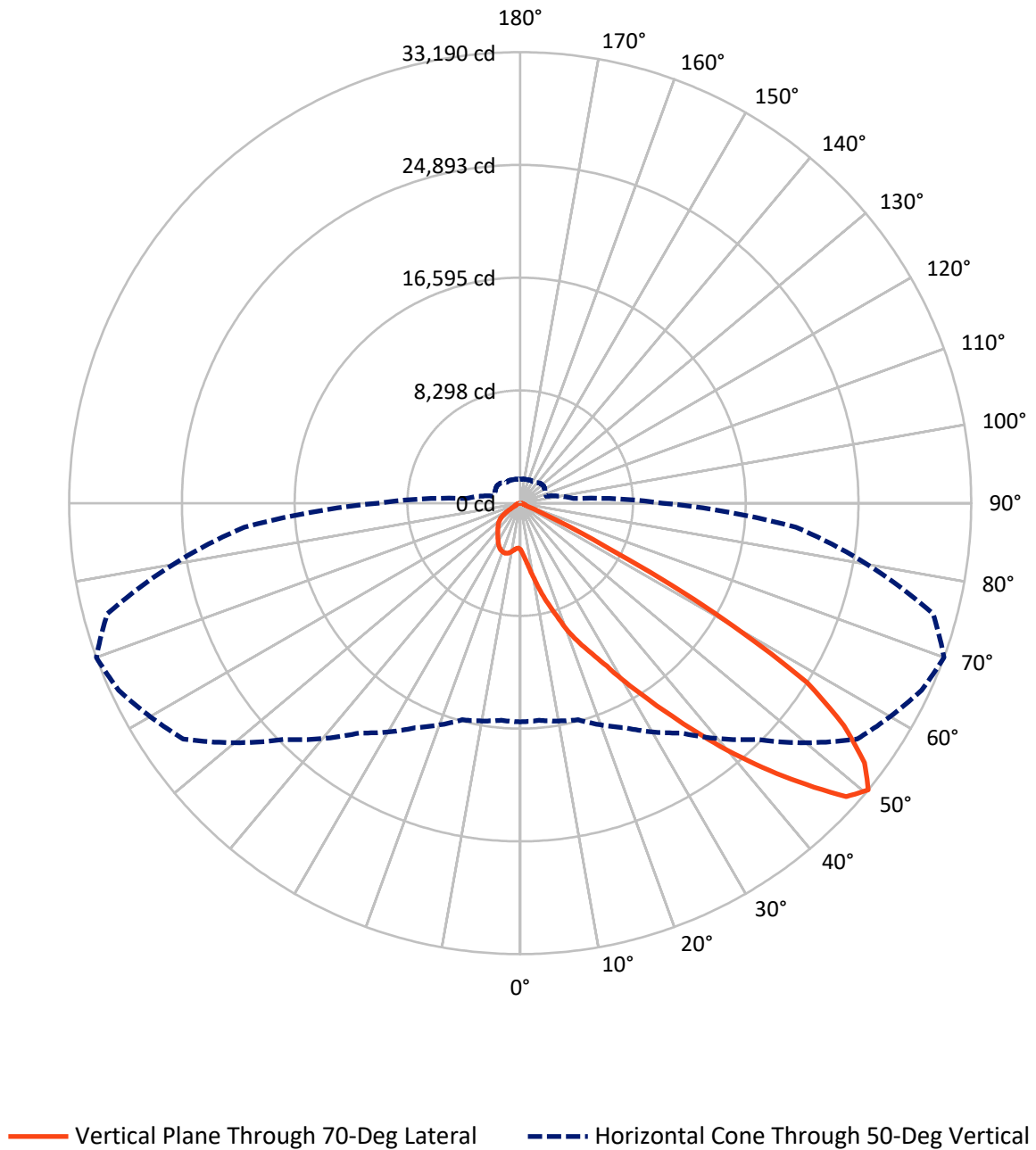


Based on 25 foot mounting height. Maximum calculated value = 19.5 fc
Type I - Short - N/A

REPORT NUMBER: P533493

CATALOG NUMBER: GALN-SA8D-830-U-T2R-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P533493

CATALOG NUMBER: GALN-SA8D-830-U-T2R-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4584.9	0.0	4584.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	28245.1	0.0	28245.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	32830.0	0.0	32830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.2	1.3
10°-20°	1912.8	5.8
20°-30°	4012.7	12.2
30°-40°	6916.5	21.1
40°-50°	10108.4	30.8
50°-60°	7872.8	24.0
60°-70°	1333.9	4.1
70°-80°	183.2	0.6
80°-90°	47.5	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°	32830.0	100.0
0°-180°	32830.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533493

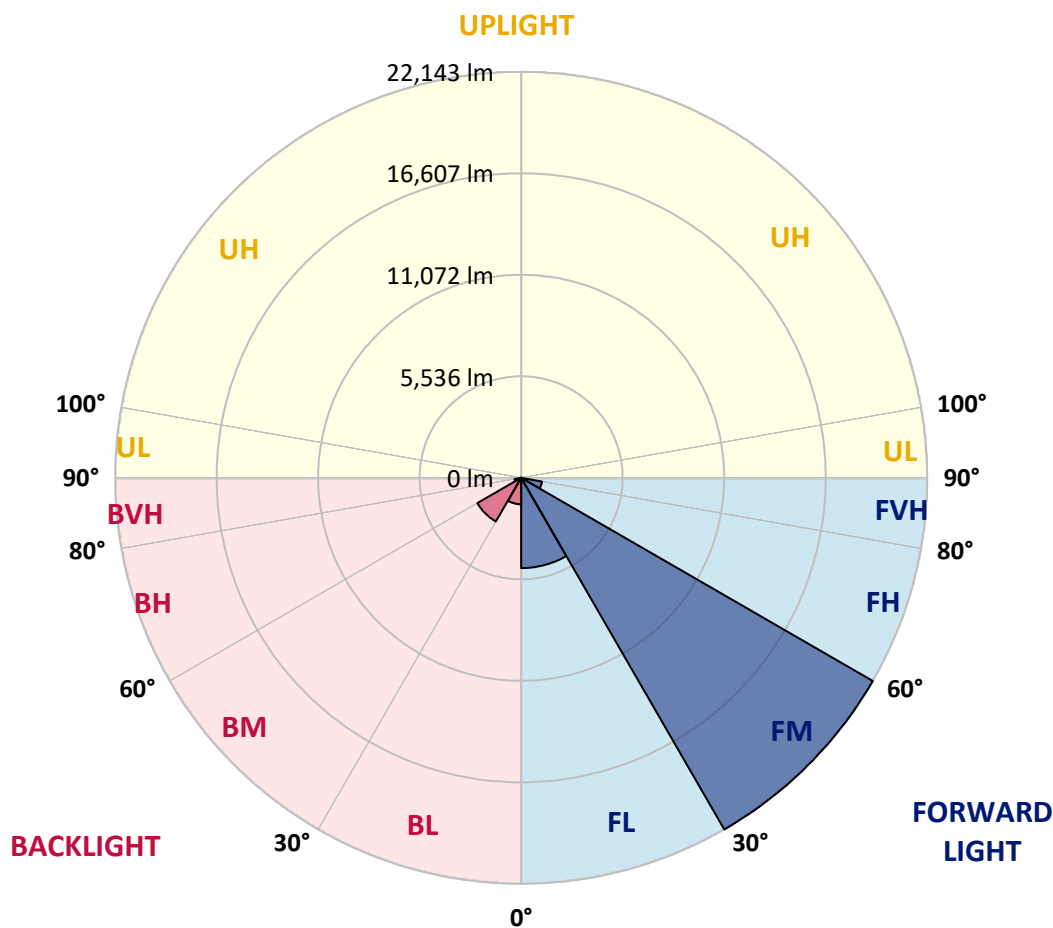
CATALOG NUMBER: GALN-SA8D-830-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4924.9	15.0			
FM	(30°-60°)	22143.3	67.4			
FH	(60°-80°)	1155.0	3.5			G1/1800
FVH	(80°-90°)	21.9	0.1			G1/100
BL	(0°-30°)	1442.8	4.4	B3/2500		
BM	(30°-60°)	2754.5	8.4	B3/5000		
BH	(60°-80°)	362.2	1.1	B1/500		G1/500
BVH	(80°-90°)	25.5	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: P533493

CATALOG NUMBER: GALN-SA8D-830-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3400.5	3400.5	3400.5	3400.5	3400.5	3400.5	3400.5	3400.5	3400.5	3400.5	3400.5
2.5°	4453.1	4420.7	4350.5	4221.0	4167.0	4037.5	3961.9	3816.2	3724.4	3621.8	3508.5
5°	6272.1	6104.8	6002.2	5856.5	5430.1	5165.6	4728.4	4355.9	4183.2	3994.3	3735.2
7.5°	8150.5	8042.6	7902.2	7589.1	7297.7	6747.1	5996.8	5176.4	4825.5	4501.7	3988.9
10°	9705.0	9402.8	9386.6	9154.5	8836.0	8177.5	7276.1	6255.9	5629.8	5154.8	4350.5
12.5°	10790.0	10514.7	10638.8	10611.8	10315.0	9710.4	8668.7	7319.3	6666.1	5926.7	4723.0
15°	11777.7	11664.4	11626.6	11594.2	11475.5	11027.5	10093.7	8614.7	7670.1	6779.5	5144.0
17.5°	12743.9	12452.5	12592.8	12619.8	12609.0	12204.2	11329.7	9845.4	8733.5	7680.9	5586.6
20°	13602.2	13629.2	13440.2	13402.5	13370.1	13353.9	12501.0	11065.3	10039.7	8625.5	6164.2
22.5°	14703.3	14514.4	14681.7	14573.7	14363.2	14233.7	13580.6	12144.8	11173.2	9764.4	6752.5
25°	16004.1	16155.3	15761.2	15718.1	15486.0	15038.0	14449.6	13353.9	12263.5	10822.4	7389.4
27.5°	17607.2	17342.8	17240.2	17002.7	16581.7	16392.8	15701.9	14600.7	13580.6	11934.3	8004.8
30°	18983.7	18913.5	18400.7	18120.0	17753.0	17747.6	16781.4	16290.2	15297.0	13677.7	8852.2
32.5°	20106.4	19798.7	19609.8	19415.5	19118.6	19199.6	18384.5	18125.4	17126.9	15297.0	9850.8
35°	20856.7	20635.3	20522.0	20225.1	20138.8	20500.4	20160.4	20052.4	19232.0	17574.9	11022.1
37.5°	21094.2	21164.3	21142.7	20770.3	20953.8	21930.8	22368.0	22087.3	21655.5	19976.8	12290.5
40°	21304.7	21353.2	21245.3	21682.5	22206.1	23318.0	24899.5	24435.3	24273.4	22411.2	14055.6
42.5°	21423.4	21385.6	21385.6	22141.3	22934.8	25169.4	27344.7	27037.0	26912.9	25002.1	16095.9
45°	20910.6	20543.6	20937.6	21963.2	23560.9	26081.6	29298.6	29725.1	29546.9	28084.2	18481.7
47.5°	18994.5	19221.2	19442.5	20813.5	22799.8	25800.9	30496.9	31948.9	32278.2	30675.0	20047.0
50°	16095.9	16047.3	16506.1	18233.4	20646.1	24591.9	30264.8	32591.2	33190.4	31452.3	20376.3
52.5°	11707.6	12063.8	12560.4	14276.9	17137.6	21461.2	27269.1	30934.1	31733.0	30496.9	20160.4
55°	6817.3	6423.2	7540.6	8992.5	11691.4	16187.7	23053.5	27420.2	28899.2	28758.9	19070.0
57.5°	2731.2	2644.9	3028.1	4080.6	6099.4	10034.3	16765.2	22529.9	24899.5	26340.7	16759.8
60°	1198.3	1171.3	1376.4	1662.5	2493.7	4625.8	9170.7	14012.4	16484.5	18406.1	11534.9
62.5°	863.6	852.8	955.4	1057.9	1317.0	2013.3	3853.9	5646.0	7038.6	8501.4	5165.6
65°	696.3	723.3	793.5	847.4	971.6	1117.3	1360.2	1570.7	1927.0	1997.1	1138.9
67.5°	566.8	588.3	653.1	712.5	734.1	604.5	626.1	550.6	550.6	491.2	394.0
70°	415.6	421.0	496.6	566.8	453.4	242.9	426.4	426.4	383.2	367.0	334.7
72.5°	307.7	313.1	372.4	350.8	178.1	151.1	313.1	345.5	313.1	296.9	269.9
75°	226.7	232.1	194.3	81.0	75.6	97.2	183.5	237.5	226.7	221.3	205.1
77.5°	43.2	32.4	27.0	37.8	54.0	81.0	118.7	145.7	151.1	161.9	151.1
80°	5.4	5.4	16.2	32.4	59.4	86.4	124.1	140.3	145.7	151.1	140.3
82.5°	0.0	5.4	16.2	32.4	59.4	81.0	108.0	124.1	134.9	140.3	134.9
85°	0.0	5.4	10.8	27.0	48.6	59.4	54.0	37.8	32.4	37.8	27.0
87.5°	0.0	0.0	5.4	5.4	10.8	10.8	10.8	10.8	10.8	10.8	10.8
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: P533493

CATALOG NUMBER: GALN-SA8D-830-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3400.5	3400.5	3400.5	3400.5	3400.5	3400.5	3400.5	3400.5	3400.5	3400.5	3400.5
2.5°	3443.7	3422.1	3346.6	3265.6	3195.4	3227.8	3195.4	3168.4	3179.2	3168.4	3157.6
5°	3632.6	3535.5	3373.6	3303.4	3244.0	3238.6	3222.4	3217.0	3222.4	3222.4	3173.8
7.5°	3810.8	3654.2	3481.5	3405.9	3335.8	3341.2	3303.4	3303.4	3298.0	3271.0	3260.2
10°	4080.6	3870.1	3648.8	3513.9	3427.5	3411.3	3373.6	3335.8	3335.8	3335.8	3281.8
12.5°	4377.5	4113.0	3810.8	3654.2	3551.7	3470.7	3411.3	3400.5	3341.2	3330.4	3303.4
15°	4636.6	4302.0	3918.7	3702.8	3573.3	3465.3	3373.6	3314.2	3287.2	3271.0	3249.4
17.5°	4890.3	4463.9	3978.1	3702.8	3562.5	3438.3	3341.2	3287.2	3222.4	3233.2	3190.0
20°	5230.4	4636.6	3994.3	3632.6	3459.9	3341.2	3211.6	3184.6	3146.9	3114.5	3125.3
22.5°	5559.6	4760.8	3945.7	3546.3	3298.0	3157.6	3092.9	3060.5	3044.3	3017.3	2979.5
25°	5856.5	4895.7	3870.1	3389.7	3125.3	3022.7	2963.3	2957.9	2920.1	2920.1	2850.0
27.5°	6158.8	4944.3	3740.6	3206.2	2974.1	2914.7	2887.8	2877.0	2860.8	2823.0	2774.4
30°	6504.2	4960.5	3551.7	3017.3	2839.2	2774.4	2812.2	2839.2	2769.0	2698.8	2720.4
32.5°	6790.3	4922.7	3325.0	2839.2	2742.0	2709.6	2785.2	2812.2	2731.2	2655.7	2617.9
35°	7135.7	4830.9	3103.7	2698.8	2644.9	2709.6	2774.4	2774.4	2612.5	2520.7	2499.1
37.5°	7659.3	4728.4	2898.6	2580.1	2542.3	2677.3	2763.6	2704.2	2450.5	2337.2	2310.2
40°	8220.7	4663.6	2698.8	2461.3	2488.3	2623.3	2671.9	2488.3	2229.2	2159.1	2137.5
42.5°	9035.7	4534.1	2520.7	2358.8	2439.8	2547.7	2547.7	2218.4	2121.3	2083.5	2078.1
45°	10050.5	4442.3	2364.2	2272.4	2369.6	2396.6	2310.2	2078.1	2007.9	1997.1	2002.5
47.5°	10547.1	4264.2	2202.3	2169.9	2240.0	2245.4	2018.7	1964.8	1905.4	1889.2	1878.4
50°	10471.5	3945.7	1991.7	2034.9	2132.1	2078.1	1840.6	1851.4	1797.4	1792.0	1765.0
52.5°	9942.5	3443.7	1781.2	1883.8	1991.7	1835.2	1694.9	1684.1	1684.1	1613.9	1586.9
55°	8814.4	2774.4	1527.5	1657.1	1786.6	1543.7	1506.0	1495.2	1468.2	1403.4	1387.2
57.5°	6979.2	2034.9	1149.7	1290.0	1516.7	1311.6	1306.2	1257.7	1187.5	1138.9	1138.9
60°	4150.8	1171.3	723.3	788.1	1004.0	1063.3	1182.1	1160.5	1041.8	966.2	944.6
62.5°	1894.6	604.5	458.8	469.6	539.8	690.9	928.4	1074.1	906.8	777.3	766.5
65°	636.9	448.0	377.8	361.6	372.4	415.6	556.0	761.1	723.3	599.1	577.6
67.5°	388.6	399.4	356.2	329.3	329.3	323.9	318.5	345.5	426.4	415.6	421.0
70°	334.7	367.0	329.3	296.9	286.1	269.9	226.7	188.9	161.9	188.9	199.7
72.5°	269.9	291.5	280.7	253.7	226.7	205.1	161.9	124.1	91.8	81.0	81.0
75°	199.7	215.9	226.7	194.3	172.7	145.7	118.7	81.0	48.6	32.4	32.4
77.5°	145.7	161.9	167.3	151.1	129.5	102.6	75.6	54.0	27.0	10.8	10.8
80°	124.1	145.7	161.9	151.1	134.9	97.2	70.2	37.8	21.6	5.4	5.4
82.5°	118.7	145.7	161.9	145.7	129.5	91.8	70.2	43.2	16.2	5.4	5.4
85°	27.0	37.8	48.6	59.4	70.2	70.2	54.0	32.4	16.2	5.4	5.4
87.5°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	5.4	5.4	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)