

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: P455253

Luminaire Tested: **GALN-SA6B-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20044 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): 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



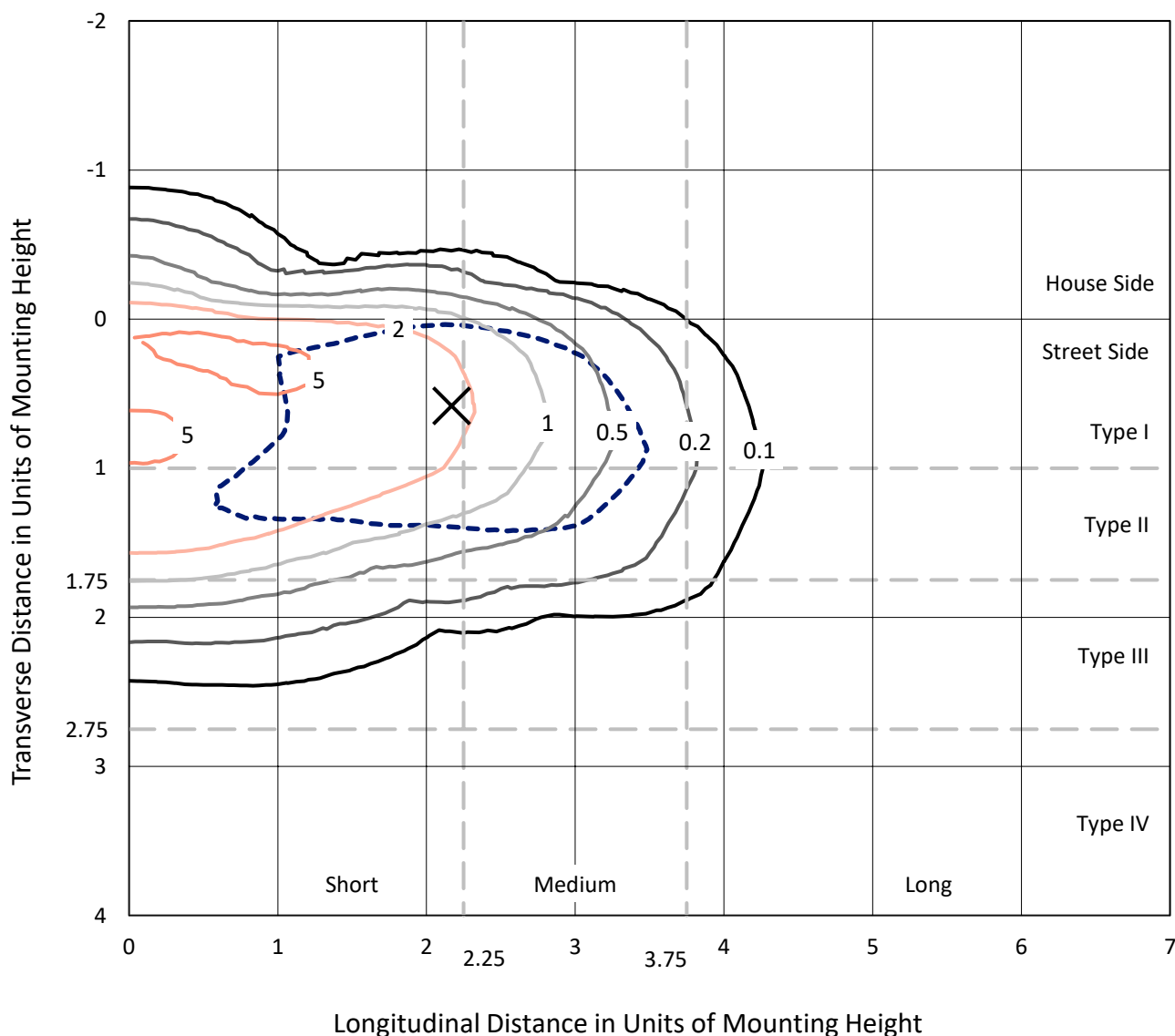
REPORT NUMBER: P455253

CATALOG NUMBER: GALN-SA6B-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



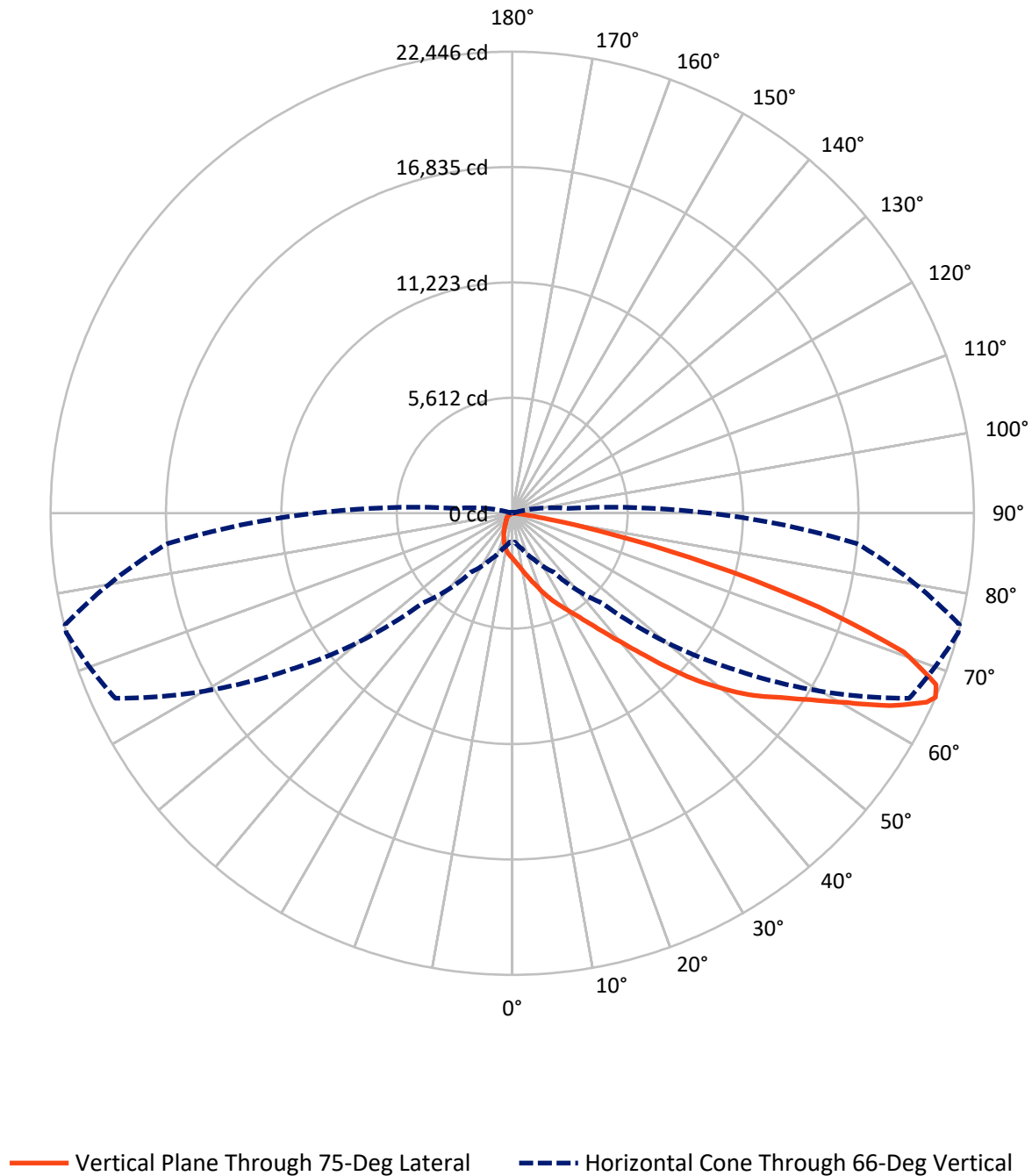
Based on 25 foot mounting height. Maximum calculated value = 6 fc

Type II - Short - N/A

REPORT NUMBER: P455253

CATALOG NUMBER: GALN-SA6B-830-U-T2-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1237.4	0.0	1237.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	18806.6	0.0	18806.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	20044.0	0.0	20044.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.4	1.1
10°-20°	622.2	3.1
20°-30°	1074.4	5.4
30°-40°	1938.1	9.7
40°-50°	3501.2	17.5
50°-60°	5458.4	27.2
60°-70°	5185.3	25.9
70°-80°	1943.3	9.7
80°-90°	109.6	0.5
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°	20044.0	100.0
0°-180°	20044.0	100.0



REPORT NUMBER: P455253

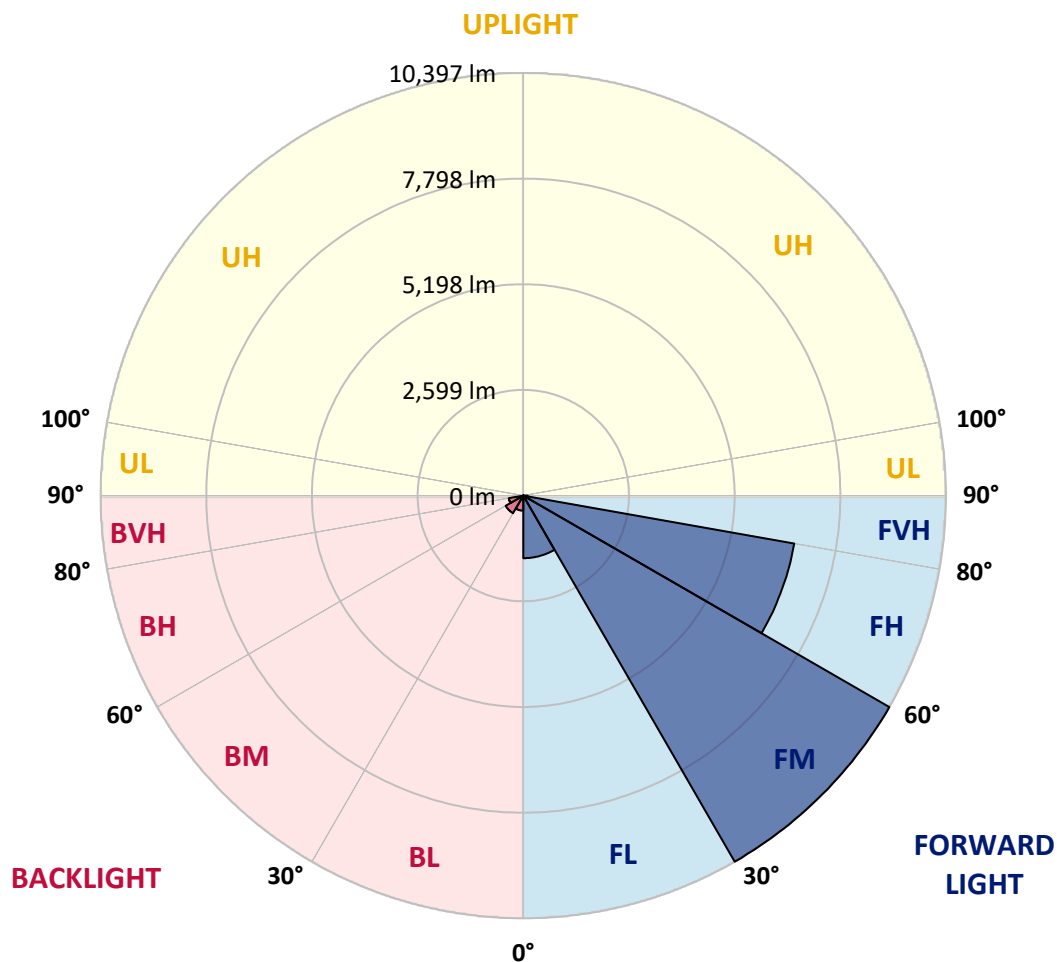
CATALOG NUMBER: GALN-SA6B-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1538.6	7.7			
FM	(30°-60°)	10396.8	51.9			
FH	(60°-80°)	6767.2	33.8			G3/7500
FVH	(80°-90°)	104.0	0.5			G2/225
BL	(0°-30°)	369.6	1.8	B1/500		
BM	(30°-60°)	500.9	2.5	B1/1000		
BH	(60°-80°)	361.3	1.8	B1/500		G1/500
BVH	(80°-90°)	5.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short



REPORT NUMBER: P455253

CATALOG NUMBER: GALN-SA6B-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2192.0	2192.0	2192.0	2192.0	2192.0	2192.0	2192.0	2192.0	2192.0	2192.0	2192.0
2.5°	2618.9	2586.2	2596.6	2581.8	2547.7	2497.3	2452.9	2389.1	2325.4	2315.0	2243.9
5°	2964.2	2955.3	2943.4	2900.4	2876.7	2799.7	2707.8	2598.1	2466.2	2442.5	2313.5
7.5°	3199.8	3195.4	3201.3	3179.1	3158.3	3088.7	2990.9	2841.2	2636.6	2623.3	2408.4
10°	3276.9	3288.8	3311.0	3346.6	3379.2	3356.9	3282.8	3096.1	2857.5	2818.9	2516.6
12.5°	3232.4	3245.8	3299.1	3394.0	3499.2	3560.0	3530.3	3394.0	3091.6	3060.5	2638.1
15°	3118.3	3134.6	3210.2	3356.9	3545.2	3717.1	3791.2	3693.4	3364.3	3314.0	2784.8
17.5°	2949.4	2973.1	3081.3	3275.4	3533.3	3829.7	4038.7	4006.1	3654.8	3607.4	2944.9
20°	2821.9	2839.7	2931.6	3153.9	3482.9	3892.0	4274.3	4366.2	4013.5	3932.0	3133.1
22.5°	2906.4	2912.3	2943.4	3076.8	3392.5	3908.3	4481.8	4741.2	4394.4	4321.8	3328.8
25°	3319.9	3260.6	3229.5	3199.8	3373.2	3893.4	4670.1	5132.5	4773.8	4696.7	3522.9
27.5°	3972.0	3945.3	3788.2	3577.8	3537.7	3912.7	4794.6	5503.0	5131.0	5048.0	3712.6
30°	4681.9	4636.0	4539.6	4231.4	3921.6	4049.1	4885.0	5863.1	5553.4	5443.7	3886.0
32.5°	5334.0	5363.7	5219.9	4902.8	4544.1	4339.6	5002.1	6255.9	6038.0	5901.7	4087.6
35°	6094.3	6153.6	5932.8	5629.0	5209.5	4864.2	5230.3	6699.0	6653.1	6481.2	4398.8
37.5°	6866.5	6902.1	6767.2	6340.4	5962.4	5531.2	5660.1	7245.9	7410.4	7263.7	4770.8
40°	7515.7	7564.6	7465.3	7085.9	6682.7	6303.3	6284.1	7841.7	8311.6	8160.4	5325.1
42.5°	8012.2	8049.2	8052.2	7783.9	7420.8	7248.9	7079.9	8602.0	9440.9	9266.0	5968.4
45°	8639.1	8692.5	8661.3	8479.0	8207.8	8176.7	8089.2	9520.9	10792.6	10571.7	6802.8
47.5°	9608.4	9644.0	9566.9	9352.0	9076.3	9125.2	9073.3	10551.0	12170.9	11981.2	7666.8
50°	10281.3	10340.5	10450.2	10536.2	10336.1	10155.3	10001.1	11512.9	13479.6	13309.2	8550.2
52.5°	10273.8	10371.7	10718.5	11151.2	11588.5	11533.6	11090.5	12575.5	14729.0	14518.5	9380.1
55°	9581.7	9771.4	10281.3	11049.0	12259.8	12863.0	12661.5	13805.7	15808.0	15665.7	10342.0
57.5°	8153.0	8268.6	8977.0	10050.0	11884.9	13488.5	14481.5	15473.0	17101.8	17035.1	11836.0
60°	5483.7	5535.6	6447.1	7773.6	10118.2	12864.5	15815.4	17490.1	18695.1	18662.5	13580.4
62.5°	3142.0	3164.3	3825.3	4944.2	7200.0	10902.2	15928.0	19978.6	20605.5	20623.3	15599.0
65°	1691.1	1702.9	2236.5	2901.9	4381.1	7770.6	14322.9	21342.1	22149.8	22183.9	16849.9
66°	1459.9	1403.5	1780.0	2473.6	3485.9	6184.8	13307.7	21293.2	22446.2	22409.2	16805.4
67.5°	1110.1	1160.5	1421.3	1901.5	2583.3	4397.4	10986.7	20346.1	22221.0	22105.4	16122.2
70°	794.4	815.1	1012.3	1356.1	1759.2	2412.8	7020.7	16898.8	20196.4	20040.8	14045.8
72.5°	512.8	535.0	717.3	981.1	1271.6	1317.6	3930.5	12209.4	15570.8	15548.6	10577.7
75°	366.1	386.8	474.3	702.5	955.9	815.1	1892.6	8228.6	9898.9	9832.2	6543.4
77.5°	265.3	275.7	317.2	459.4	683.2	583.9	877.4	4394.4	4927.9	5160.6	2891.6
80°	152.7	161.5	220.8	280.1	462.4	398.7	419.4	1763.7	1818.5	1731.1	904.1
82.5°	75.6	86.0	131.9	191.2	289.0	268.3	192.7	530.6	560.2	545.4	228.2
85°	17.8	22.2	74.1	126.0	140.8	120.0	93.4	155.6	192.7	188.2	87.4
87.5°	1.5	3.0	26.7	22.2	23.7	40.0	32.6	40.0	62.2	57.8	31.1
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: P455253

CATALOG NUMBER: GALN-SA6B-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2192.0	2192.0	2192.0	2192.0	2192.0	2192.0	2192.0	2192.0	2192.0	2192.0	2192.0
2.5°	2211.3	2183.1	2101.6	2021.6	1954.9	1885.2	1821.5	1784.4	1769.6	1753.3	1760.7
5°	2242.4	2174.2	2009.7	1867.4	1728.1	1609.5	1514.7	1453.9	1424.3	1419.8	1412.4
7.5°	2283.9	2166.8	1911.9	1689.6	1507.3	1375.4	1267.2	1179.7	1153.1	1129.4	1110.1
10°	2334.3	2153.5	1790.4	1502.8	1308.7	1142.7	1000.4	896.7	843.3	828.5	838.9
12.5°	2387.6	2128.3	1662.9	1330.9	1107.1	895.2	763.3	711.4	696.6	690.7	692.1
15°	2441.0	2097.2	1529.5	1164.9	881.8	714.4	653.6	640.3	634.3	631.4	628.4
17.5°	2489.9	2046.8	1379.8	1003.4	714.4	610.6	588.4	576.5	564.7	560.2	552.8
20°	2547.7	1989.0	1245.0	822.6	604.7	552.8	526.1	503.9	486.1	474.3	472.8
22.5°	2602.5	1914.9	1104.2	681.8	551.3	496.5	453.5	429.8	409.1	394.2	398.7
25°	2632.2	1824.5	978.2	594.3	502.4	440.2	392.8	363.1	340.9	333.5	332.0
27.5°	2632.2	1713.3	855.2	543.9	458.0	389.8	340.9	312.7	297.9	287.5	289.0
30°	2611.4	1590.3	741.0	505.4	419.4	345.3	299.4	274.2	262.3	254.9	253.4
32.5°	2595.1	1473.2	643.2	468.3	379.4	306.8	266.8	247.5	235.7	228.2	228.2
35°	2620.3	1372.4	567.6	431.3	342.4	277.2	241.6	223.8	211.9	206.0	204.5
37.5°	2687.0	1280.5	509.8	391.3	308.3	252.0	223.8	203.0	191.2	183.8	180.8
40°	2851.5	1228.7	466.9	354.2	275.7	231.2	203.0	183.8	169.0	161.5	160.1
42.5°	3115.4	1230.1	425.4	320.1	250.5	213.4	185.3	163.0	146.7	139.3	137.8
45°	3512.6	1286.5	392.8	287.5	228.2	194.2	166.0	142.3	127.5	120.0	120.0
47.5°	3988.3	1396.1	364.6	259.4	207.5	176.4	146.7	123.0	108.2	102.3	102.3
50°	4504.1	1538.4	336.4	229.7	189.7	157.1	126.0	106.7	94.9	90.4	90.4
52.5°	5030.2	1710.3	308.3	206.0	170.4	136.4	108.2	94.9	84.5	81.5	80.0
55°	5720.9	1929.7	278.6	180.8	149.7	117.1	96.3	83.0	71.1	66.7	65.2
57.5°	6783.5	2260.2	246.0	158.6	123.0	97.8	83.0	69.7	56.3	48.9	47.4
60°	8065.5	2663.3	211.9	139.3	99.3	80.0	66.7	53.4	41.5	32.6	31.1
62.5°	9266.0	2919.7	179.3	117.1	78.6	60.8	47.4	40.0	29.6	20.7	19.3
65°	9796.6	2833.8	148.2	94.9	62.2	43.0	31.1	28.2	17.8	8.9	7.4
66°	9620.2	2706.3	136.4	86.0	56.3	37.1	26.7	23.7	13.3	4.4	4.4
67.5°	9100.0	2405.4	118.6	74.1	48.9	29.6	20.7	17.8	7.4	1.5	0.0
70°	7797.3	1946.0	93.4	54.8	35.6	20.7	11.9	8.9	4.4	0.0	0.0
72.5°	5989.1	1449.5	74.1	41.5	25.2	11.9	5.9	3.0	4.4	0.0	0.0
75°	3669.7	828.5	57.8	31.1	16.3	7.4	4.4	0.0	4.4	1.5	0.0
77.5°	1628.8	372.0	38.5	20.7	11.9	5.9	3.0	0.0	3.0	1.5	0.0
80°	412.0	121.5	22.2	14.8	8.9	4.4	1.5	0.0	3.0	3.0	1.5
82.5°	112.6	44.5	16.3	11.9	7.4	4.4	1.5	0.0	3.0	3.0	3.0
85°	44.5	20.7	14.8	11.9	8.9	4.4	1.5	0.0	3.0	3.0	3.0
87.5°	20.7	14.8	14.8	13.3	10.4	4.4	1.5	0.0	3.0	1.5	3.0
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)