

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: P455485

Luminaire Tested: **GALN-SA6C-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455485
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-SA6C-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA 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: 24766 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 321
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

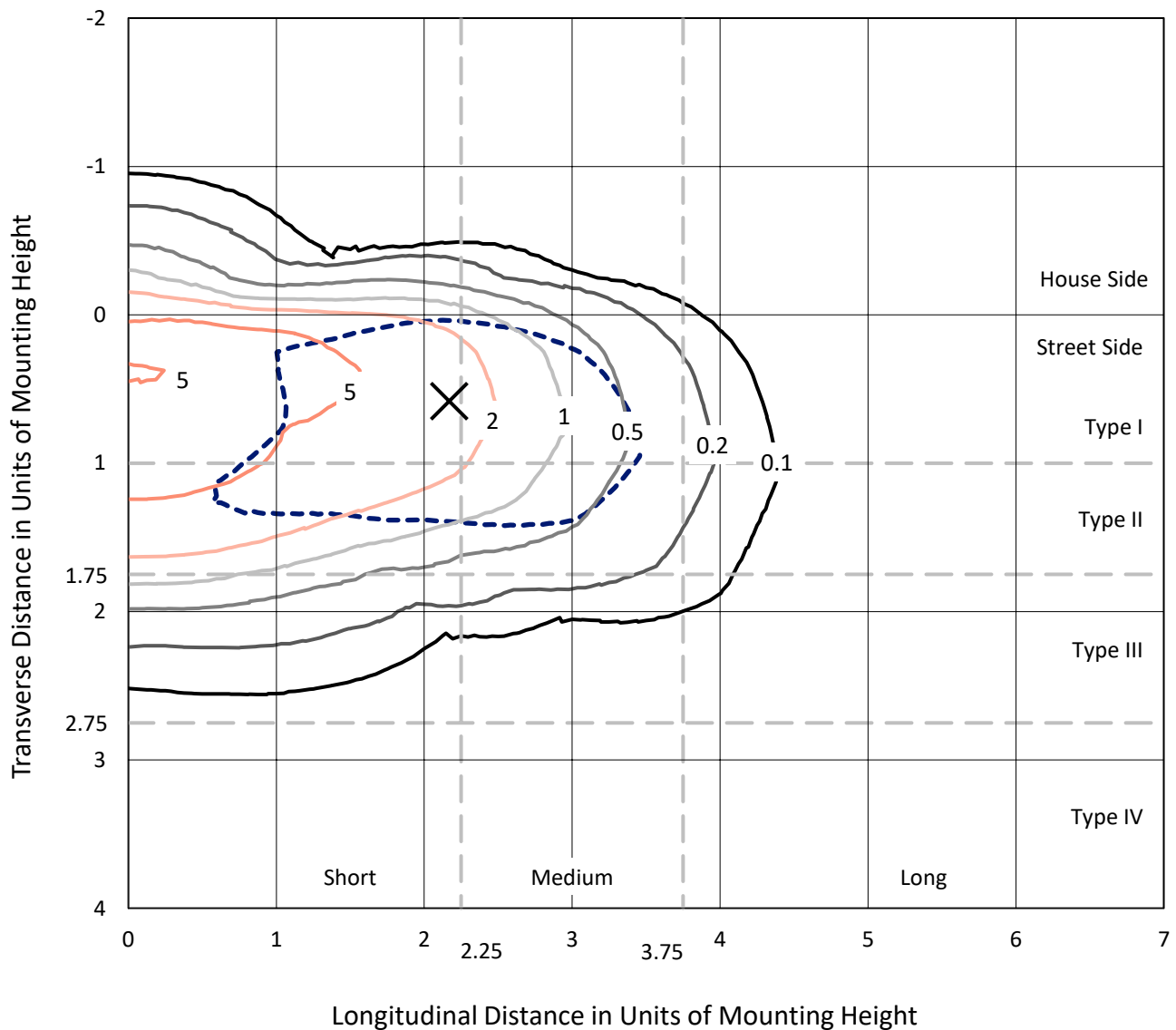


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

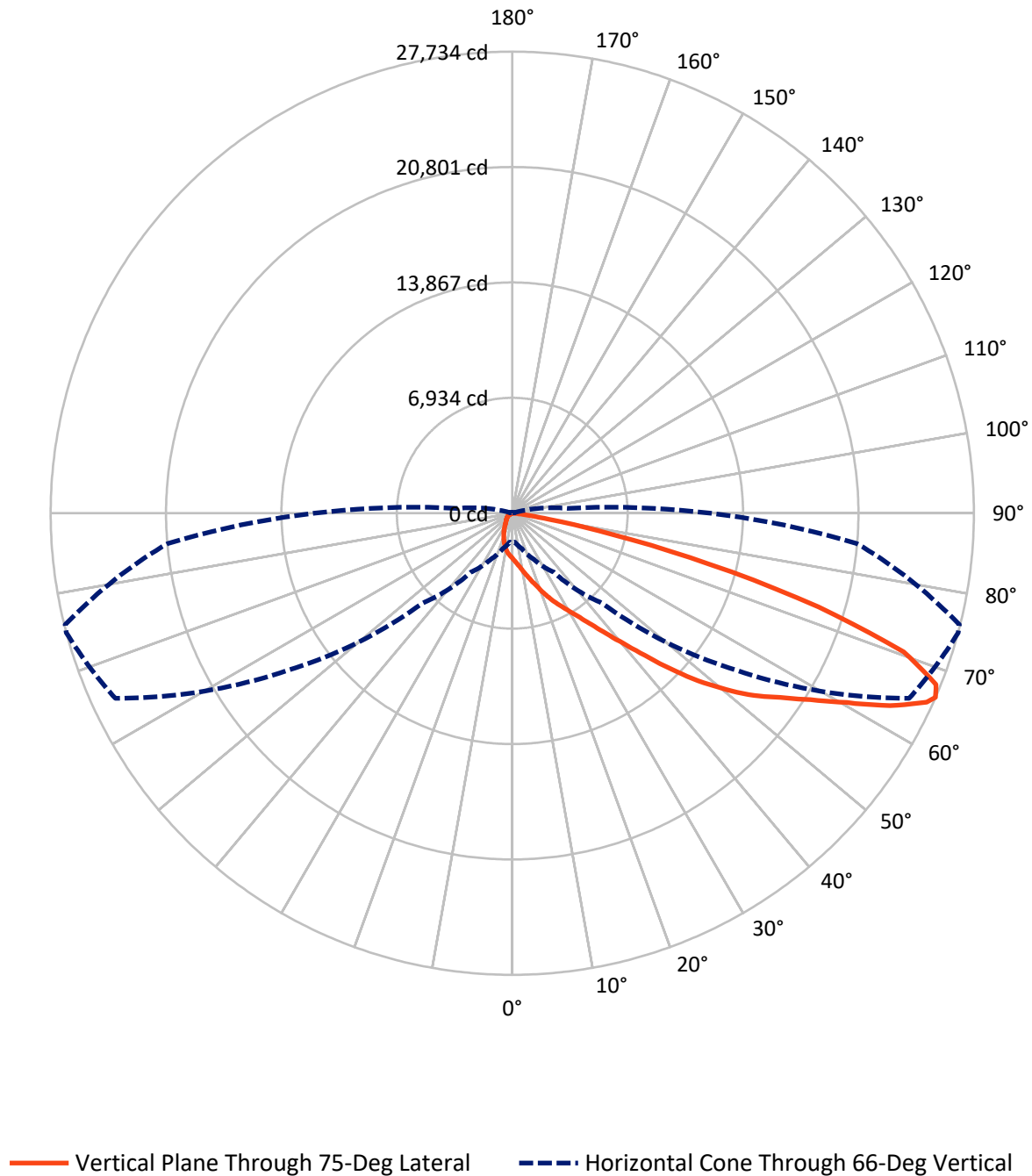


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1528.9	0.0	1528.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	23237.1	0.0	23237.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	24766.0	0.0	24766.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.2	1.1
10°-20°	768.8	3.1
20°-30°	1327.6	5.4
30°-40°	2394.7	9.7
40°-50°	4326.0	17.5
50°-60°	6744.3	27.2
60°-70°	6406.8	25.9
70°-80°	2401.1	9.7
80°-90°	135.5	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°	24766.0	100.0
0°-180°	24766.0	100.0



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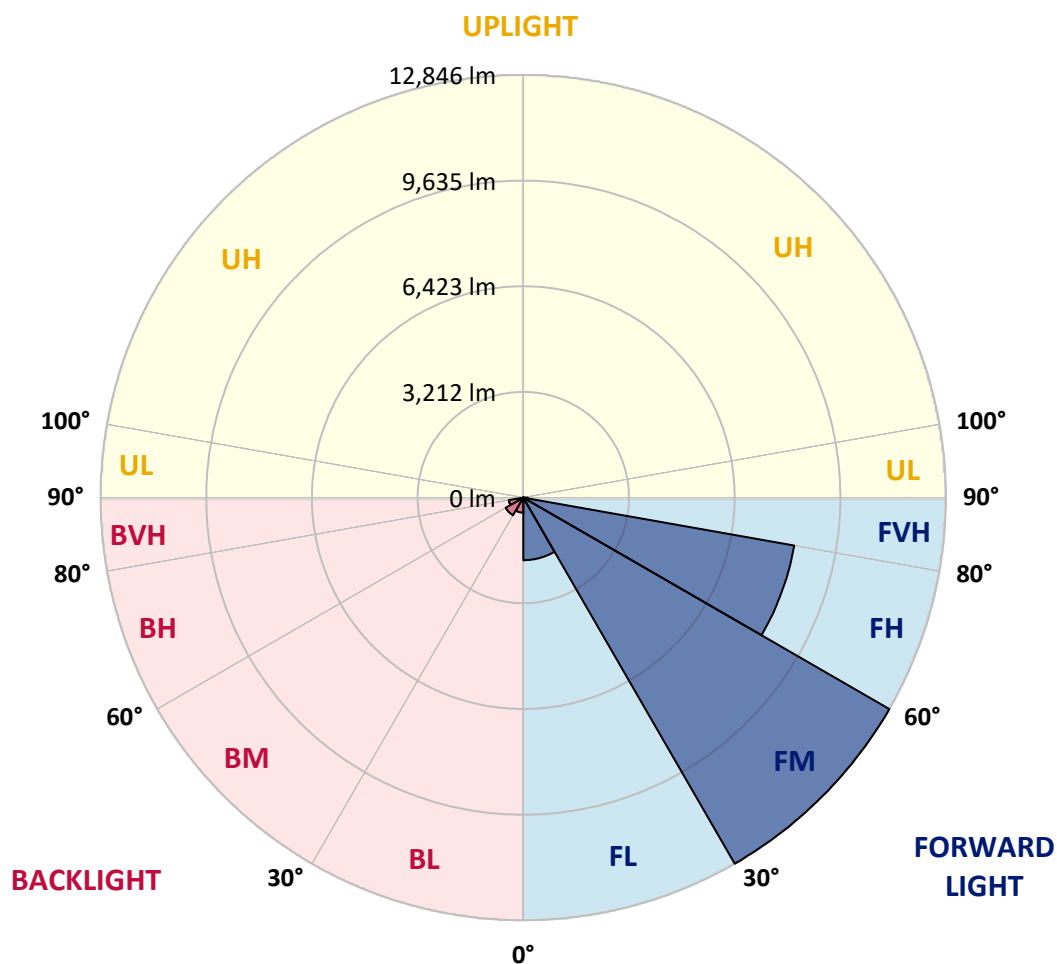
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1901.0	7.7			
FM	(30°-60°)	12846.1	51.9			
FH	(60°-80°)	8361.5	33.8			G4/12000
FVH	(80°-90°)	128.5	0.5			G2/225
BL	(0°-30°)	456.6	1.8	B1/500		
BM	(30°-60°)	618.9	2.5	B1/1000		
BH	(60°-80°)	446.5	1.8	B1/500		G1/500
BVH	(80°-90°)	7.0	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4
2.5°	3235.8	3195.5	3208.3	3190.0	3147.9	3085.6	3030.7	2952.0	2873.2	2860.4	2772.5
5°	3662.5	3651.5	3636.8	3583.7	3554.4	3459.2	3345.7	3210.2	3047.2	3017.9	2858.6
7.5°	3953.7	3948.2	3955.5	3928.0	3902.4	3816.3	3695.4	3510.5	3257.8	3241.3	2975.8
10°	4048.9	4063.5	4091.0	4134.9	4175.2	4147.8	4056.2	3825.5	3530.6	3483.0	3109.4
12.5°	3993.9	4010.4	4076.3	4193.5	4323.6	4398.6	4362.0	4193.5	3820.0	3781.5	3259.6
15°	3852.9	3873.1	3966.5	4147.8	4380.3	4592.8	4684.3	4563.5	4156.9	4094.7	3440.9
17.5°	3644.2	3673.5	3807.2	4047.0	4365.7	4731.9	4990.1	4949.8	4515.8	4457.2	3638.7
20°	3486.7	3508.7	3622.2	3896.9	4303.4	4808.8	5281.3	5394.8	4959.0	4858.3	3871.2
22.5°	3591.1	3598.4	3636.8	3801.7	4191.7	4829.0	5537.7	5858.1	5429.6	5339.9	4113.0
25°	4102.0	4028.7	3990.3	3953.7	4167.9	4810.7	5770.2	6341.6	5898.4	5803.2	4352.9
27.5°	4907.7	4874.8	4680.7	4420.6	4371.2	4834.5	5924.1	6799.4	6339.8	6237.2	4587.3
30°	5784.9	5728.1	5609.1	5228.2	4845.5	5003.0	6035.8	7244.4	6861.7	6726.2	4801.5
32.5°	6590.6	6627.3	6449.6	6057.7	5614.6	5361.9	6180.4	7729.7	7460.5	7292.0	5050.6
35°	7530.1	7603.3	7330.5	6955.1	6436.8	6010.1	6462.5	8277.2	8220.4	8008.0	5435.1
37.5°	8484.1	8528.1	8361.5	7834.1	7367.1	6834.2	6993.5	8952.9	9156.2	8974.9	5894.8
40°	9286.2	9346.7	9224.0	8755.2	8257.1	7788.3	7764.5	9689.1	10269.6	10082.8	6579.7
42.5°	9899.7	9945.5	9949.1	9617.7	9169.0	8956.6	8747.8	10628.5	11665.0	11448.9	7374.4
45°	10674.3	10740.2	10701.8	10476.5	10141.4	10103.0	9994.9	11763.9	13335.1	13062.2	8405.4
47.5°	11871.9	11915.9	11820.7	11555.1	11214.5	11275.0	11210.9	13036.6	15038.2	14803.8	9473.0
50°	12703.3	12776.6	12912.1	13018.3	12771.1	12547.7	12357.2	14225.1	16655.1	16444.6	10564.4
52.5°	12694.2	12815.0	13243.5	13778.3	14318.5	14250.7	13703.2	15538.1	18198.9	17938.8	11589.9
55°	11839.0	12073.4	12703.3	13651.9	15148.0	15893.3	15644.3	17058.0	19532.0	19356.2	12778.4
57.5°	10073.7	10216.5	11091.8	12417.7	14684.7	16666.1	17893.1	19118.2	21130.7	21048.3	14624.3
60°	6775.6	6839.7	7965.9	9604.9	12501.9	15895.2	19541.2	21610.5	23099.3	23059.0	16779.7
62.5°	3882.2	3909.7	4726.4	6109.0	8896.2	13470.6	19680.4	24685.1	25459.8	25481.7	19273.8
65°	2089.4	2104.1	2763.3	3585.6	5413.2	9601.2	17697.1	26369.9	27367.9	27410.0	20819.4
66°	1803.8	1734.2	2199.3	3056.3	4307.1	7641.8	16442.7	26309.5	27734.2	27688.4	20764.5
67.5°	1371.6	1433.9	1756.2	2349.5	3191.9	5433.3	13575.0	25139.3	27455.8	27313.0	19920.3
70°	981.5	1007.2	1250.7	1675.6	2173.7	2981.3	8674.6	20879.8	24954.3	24762.1	17354.7
72.5°	633.6	661.1	886.3	1212.3	1571.2	1628.0	4856.5	15085.8	19239.0	19211.6	13069.6
75°	452.3	478.0	586.0	868.0	1181.2	1007.2	2338.5	10167.1	12230.9	12148.5	8084.9
77.5°	327.8	340.6	391.9	567.7	844.2	721.5	1084.1	5429.6	6088.9	6376.4	3572.8
80°	188.6	199.6	272.9	346.1	571.3	492.6	518.2	2179.2	2246.9	2138.9	1117.1
82.5°	93.4	106.2	163.0	236.2	357.1	331.5	238.1	655.6	692.2	673.9	282.0
85°	22.0	27.5	91.6	155.7	174.0	148.3	115.4	192.3	238.1	232.6	108.0
87.5°	1.8	3.7	33.0	27.5	29.3	49.4	40.3	49.4	76.9	71.4	38.5
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°	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4	2708.4
2.5°	2732.2	2697.4	2596.7	2497.8	2415.4	2329.3	2250.6	2204.8	2186.5	2166.4	2175.5
5°	2770.7	2686.4	2483.2	2307.4	2135.2	1988.7	1871.5	1796.4	1759.8	1754.3	1745.2
7.5°	2821.9	2677.3	2362.3	2087.6	1862.4	1699.4	1565.7	1457.7	1424.7	1395.4	1371.6
10°	2884.2	2660.8	2212.1	1856.9	1617.0	1411.9	1236.1	1107.9	1042.0	1023.7	1036.5
12.5°	2950.1	2629.7	2054.7	1644.5	1367.9	1106.1	943.1	879.0	860.7	853.4	855.2
15°	3016.1	2591.2	1889.8	1439.4	1089.6	882.7	807.6	791.1	783.8	780.1	776.4
17.5°	3076.5	2528.9	1704.9	1239.8	882.7	754.5	727.0	712.4	697.7	692.2	683.1
20°	3147.9	2457.5	1538.2	1016.3	747.1	683.1	650.1	622.6	600.6	586.0	584.2
22.5°	3215.7	2366.0	1364.3	842.4	681.2	613.5	560.4	531.1	505.4	487.1	492.6
25°	3252.3	2254.3	1208.6	734.3	620.8	543.9	485.3	448.7	421.2	412.0	410.2
27.5°	3252.3	2116.9	1056.6	672.1	565.9	481.6	421.2	386.4	368.1	355.3	357.1
30°	3226.6	1964.9	915.6	624.5	518.2	426.7	369.9	338.8	324.1	315.0	313.1
32.5°	3206.5	1820.3	794.8	578.7	468.8	379.1	329.6	305.8	291.2	282.0	282.0
35°	3237.6	1695.7	701.4	532.9	423.0	342.4	298.5	276.5	261.9	254.5	252.7
37.5°	3320.0	1582.2	629.9	483.4	380.9	311.3	276.5	250.9	236.2	227.1	223.4
40°	3523.3	1518.1	576.8	437.7	340.6	285.7	250.9	227.1	208.8	199.6	197.8
42.5°	3849.3	1519.9	525.6	395.5	309.5	263.7	228.9	201.4	181.3	172.1	170.3
45°	4340.0	1589.5	485.3	355.3	282.0	239.9	205.1	175.8	157.5	148.3	148.3
47.5°	4927.9	1725.0	450.5	320.5	256.4	217.9	181.3	152.0	133.7	126.4	126.4
50°	5565.1	1900.8	415.7	283.8	234.4	194.1	155.7	131.8	117.2	111.7	111.7
52.5°	6215.2	2113.3	380.9	254.5	210.6	168.5	133.7	117.2	104.4	100.7	98.9
55°	7068.6	2384.3	344.3	223.4	185.0	144.7	119.0	102.5	87.9	82.4	80.6
57.5°	8381.6	2792.6	304.0	195.9	152.0	120.9	102.5	86.1	69.6	60.4	58.6
60°	9965.6	3290.7	261.9	172.1	122.7	98.9	82.4	65.9	51.3	40.3	38.5
62.5°	11448.9	3607.5	221.6	144.7	97.1	75.1	58.6	49.4	36.6	25.6	23.8
65°	12104.5	3501.3	183.1	117.2	76.9	53.1	38.5	34.8	22.0	11.0	9.2
66°	11886.6	3343.8	168.5	106.2	69.6	45.8	33.0	29.3	16.5	5.5	5.5
67.5°	11243.8	2972.1	146.5	91.6	60.4	36.6	25.6	22.0	9.2	1.8	0.0
70°	9634.2	2404.4	115.4	67.8	43.9	25.6	14.6	11.0	5.5	0.0	0.0
72.5°	7400.0	1791.0	91.6	51.3	31.1	14.6	7.3	3.7	5.5	0.0	0.0
75°	4534.2	1023.7	71.4	38.5	20.1	9.2	5.5	0.0	5.5	1.8	0.0
77.5°	2012.5	459.6	47.6	25.6	14.6	7.3	3.7	0.0	3.7	1.8	0.0
80°	509.1	150.2	27.5	18.3	11.0	5.5	1.8	0.0	3.7	3.7	1.8
82.5°	139.2	54.9	20.1	14.6	9.2	5.5	1.8	0.0	3.7	3.7	3.7
85°	54.9	25.6	18.3	14.6	11.0	5.5	1.8	0.0	3.7	3.7	3.7
87.5°	25.6	18.3	18.3	16.5	12.8	5.5	1.8	0.0	3.7	1.8	3.7
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)