

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: P456877

Luminaire Tested: **GALN-SA8A-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456877
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-SA8A-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 21937 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 244
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

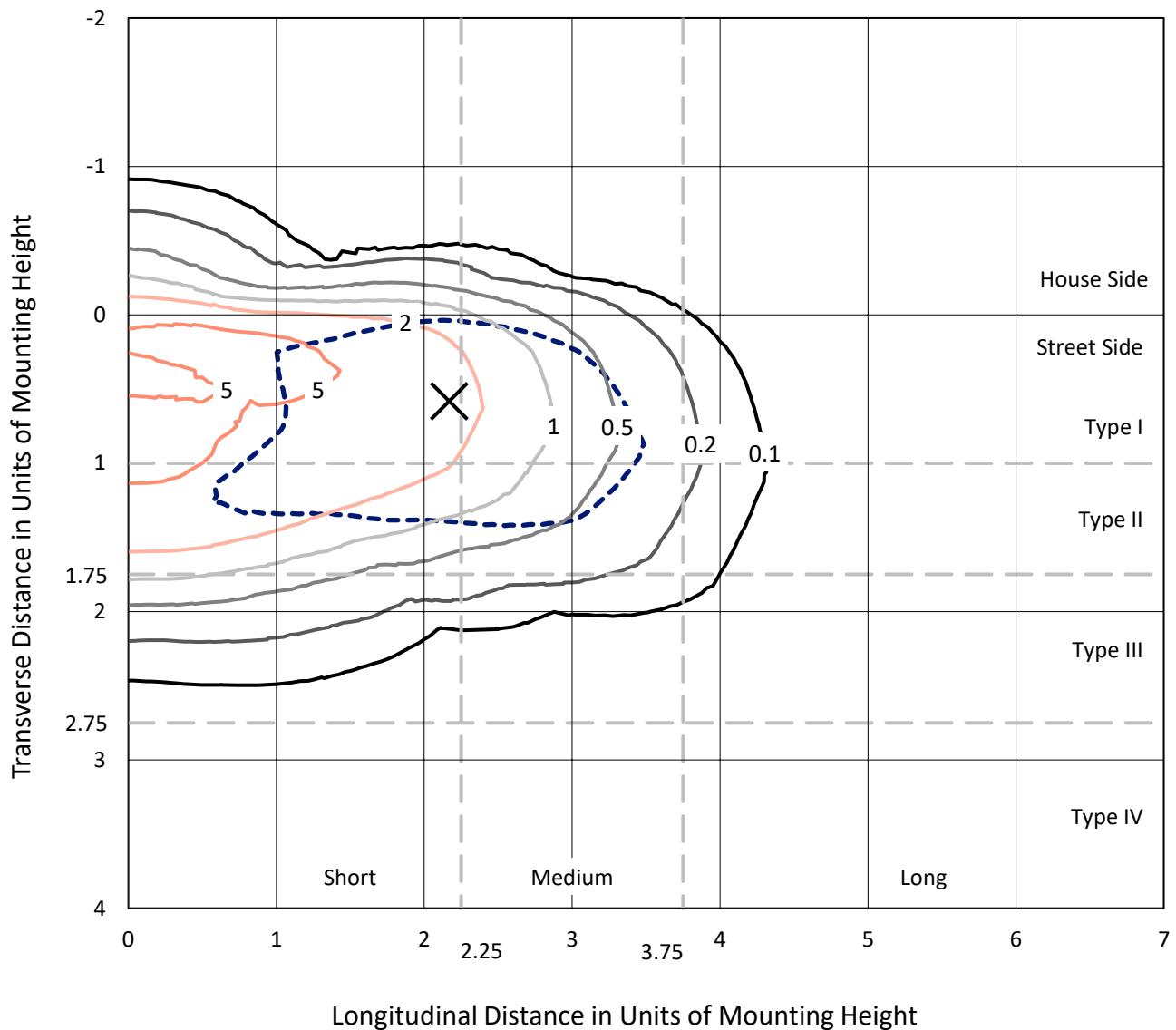


REPORT NUMBER: P456877

CATALOG NUMBER: GALN-SA8A-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

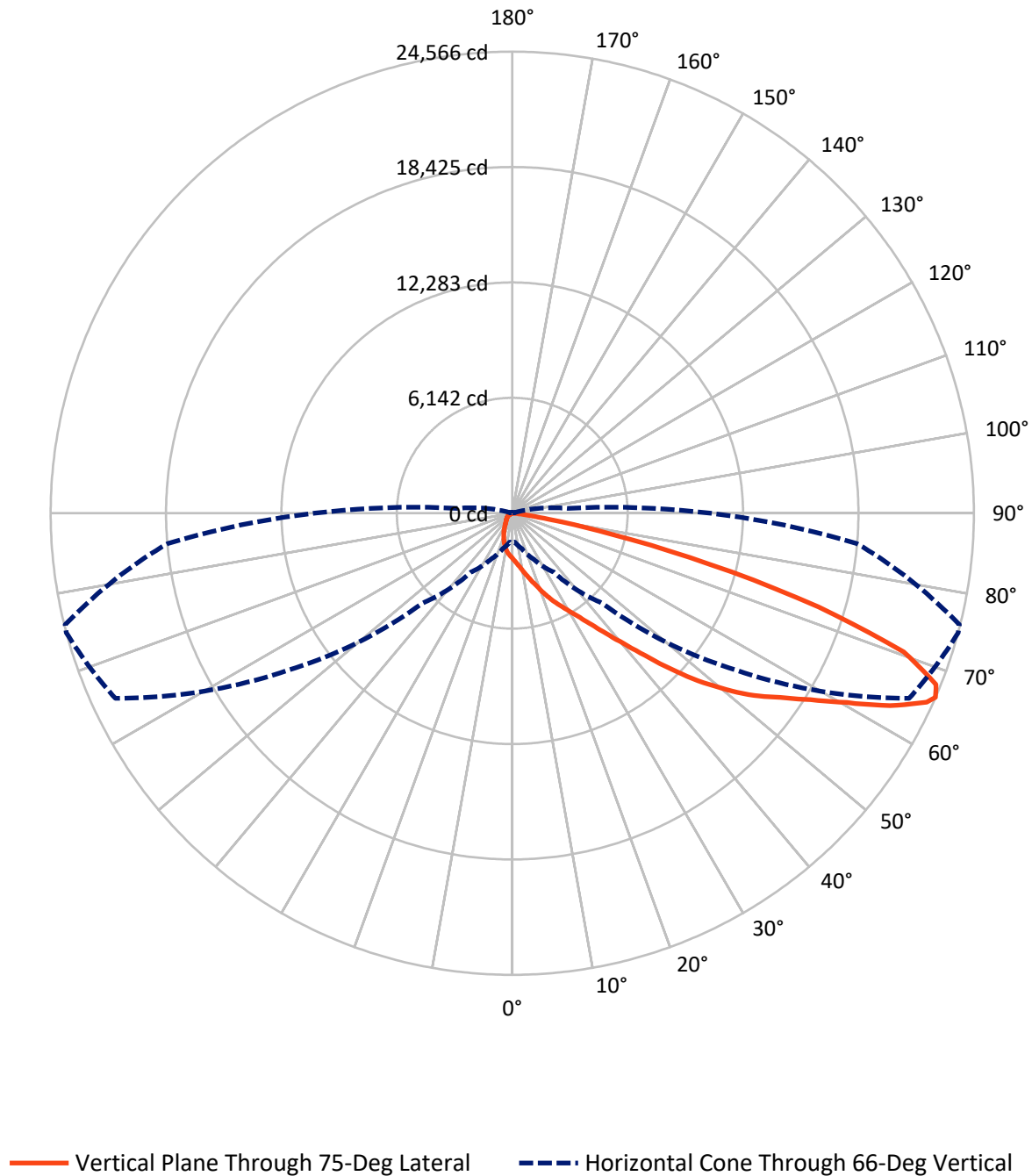


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

REPORT NUMBER: P456877

CATALOG NUMBER: GALN-SA8A-830-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P456877

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1354.3	0.0	1354.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	20582.7	0.0	20582.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	21937.0	0.0	21937.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.4	1.1
10°-20°	681.0	3.1
20°-30°	1175.9	5.4
30°-40°	2121.1	9.7
40°-50°	3831.9	17.5
50°-60°	5973.9	27.2
60°-70°	5675.0	25.9
70°-80°	2126.8	9.7
80°-90°	120.0	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°	21937.0	100.0
0°-180°	21937.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456877

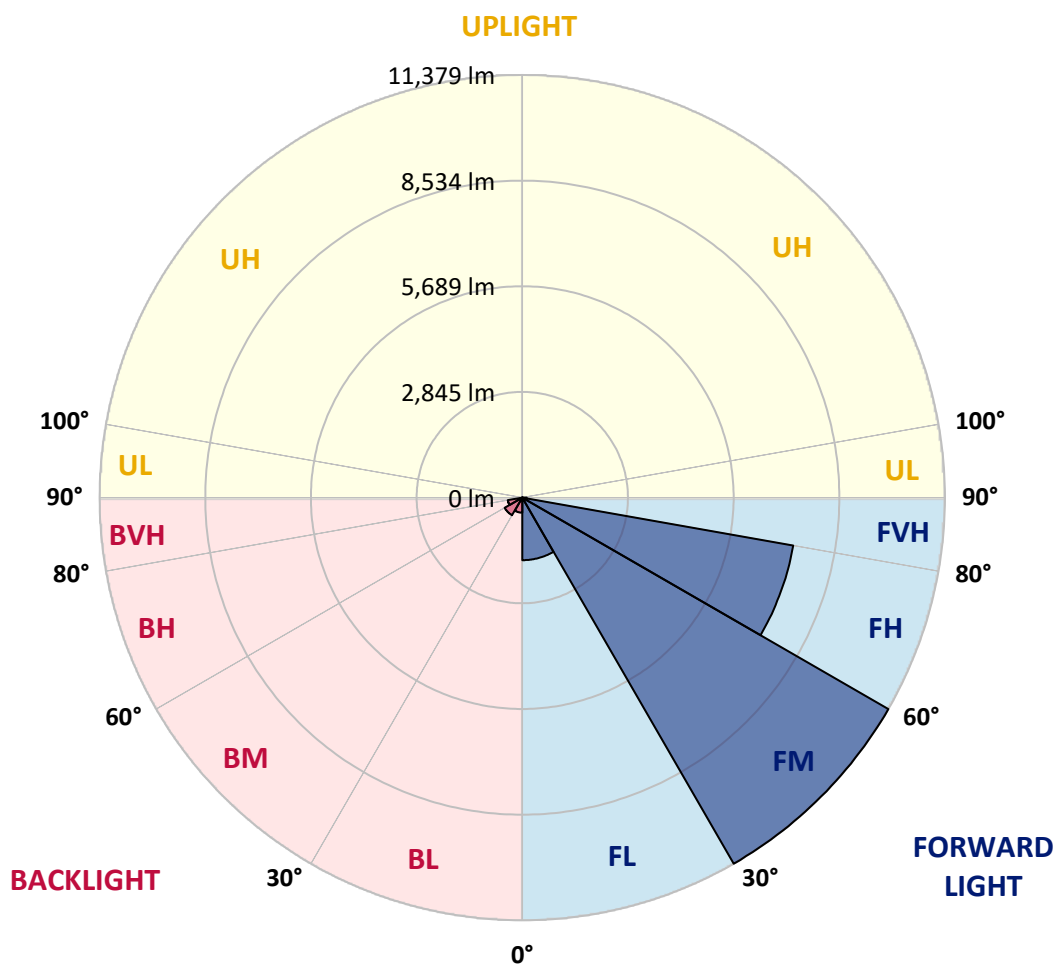
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1683.9	7.7			
FM	(30°-60°)	11378.7	51.9			
FH	(60°-80°)	7406.3	33.8			G3/7500
FVH	(80°-90°)	113.8	0.5			G2/225
BL	(0°-30°)	404.5	1.8	B1/500		
BM	(30°-60°)	548.2	2.5	B1/1000		
BH	(60°-80°)	395.5	1.8	B1/500		G1/500
BVH	(80°-90°)	6.2	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: P456877

CATALOG NUMBER: GALN-SA8A-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0
2.5°	2866.2	2830.5	2841.9	2825.6	2788.3	2733.2	2684.5	2614.8	2545.0	2533.7	2455.8
5°	3244.1	3234.4	3221.4	3174.4	3148.4	3064.1	2963.5	2843.5	2699.1	2673.2	2532.0
7.5°	3502.0	3497.2	3503.7	3479.3	3456.6	3380.4	3273.3	3109.5	2885.6	2871.0	2635.8
10°	3586.4	3599.4	3623.7	3662.6	3698.3	3674.0	3592.9	3388.5	3127.3	3085.2	2754.3
12.5°	3537.7	3552.3	3610.7	3714.5	3829.7	3896.2	3863.7	3714.5	3383.6	3349.6	2887.3
15°	3412.8	3430.7	3513.4	3674.0	3880.0	4068.1	4149.2	4042.2	3682.1	3626.9	3047.9
17.5°	3227.9	3253.9	3372.3	3584.8	3867.0	4191.4	4420.1	4384.4	4000.0	3948.1	3223.0
20°	3088.4	3107.9	3208.4	3451.7	3811.8	4259.5	4678.0	4778.6	4392.5	4303.3	3429.0
22.5°	3180.9	3187.3	3221.4	3367.4	3712.9	4277.4	4905.1	5189.0	4809.4	4729.9	3643.1
25°	3633.4	3568.5	3534.5	3502.0	3691.8	4261.2	5111.1	5617.2	5224.7	5140.3	3855.6
27.5°	4347.1	4317.9	4146.0	3915.7	3871.9	4282.2	5247.4	6022.7	5615.6	5524.7	4063.3
30°	5124.1	5073.8	4968.4	4631.0	4292.0	4431.5	5346.3	6416.9	6077.9	5957.8	4253.0
32.5°	5837.8	5870.2	5712.9	5365.8	4973.2	4749.4	5474.5	6846.7	6608.3	6459.0	4473.6
35°	6669.9	6734.8	6493.1	6160.6	5701.5	5323.6	5724.3	7331.7	7281.4	7093.3	4814.3
37.5°	7515.0	7553.9	7406.3	6939.2	6525.6	6053.5	6194.6	7930.3	8110.3	7949.7	5221.4
40°	8225.5	8279.0	8170.3	7755.1	7313.9	6898.6	6877.5	8582.3	9096.5	8931.1	5828.1
42.5°	8768.9	8809.4	8812.7	8519.1	8121.7	7933.5	7748.6	9414.4	10332.5	10141.1	6532.0
45°	9455.0	9513.4	9479.3	9279.8	8983.0	8948.9	8853.2	10420.1	11811.8	11570.2	7445.3
47.5°	10515.8	10554.7	10470.4	10235.2	9933.5	9987.0	9930.3	11547.5	13320.4	13112.7	8390.9
50°	11252.2	11317.1	11437.2	11531.2	11312.3	11114.4	10945.7	12600.2	14752.6	14566.1	9357.7
52.5°	11244.1	11351.2	11730.7	12204.4	12682.9	12622.9	12137.9	13763.2	16120.0	15889.7	10266.0
55°	10486.6	10694.2	11252.2	12092.5	13417.7	14077.9	13857.3	15109.5	17300.9	17145.2	11318.7
57.5°	8923.0	9049.5	9824.8	10999.2	13007.3	14762.4	15849.2	16934.3	18717.0	18644.0	12953.8
60°	6001.6	6058.4	7056.0	8507.7	11073.8	14079.5	17309.0	19141.9	20460.7	20425.0	14862.9
62.5°	3438.8	3463.1	4186.5	5411.2	7880.0	11931.9	17432.3	21865.4	22551.5	22571.0	17072.2
65°	1850.8	1863.7	2447.7	3176.0	4794.8	8504.5	15675.6	23357.7	24241.7	24279.0	18441.2
66°	1597.7	1536.1	1948.1	2707.2	3815.1	6768.9	14564.5	23304.1	24566.1	24525.6	18392.5
67.5°	1214.9	1270.1	1555.6	2081.1	2827.3	4812.7	12024.3	22267.6	24319.6	24193.0	17644.8
70°	869.4	892.1	1107.9	1484.2	1925.4	2640.7	7683.7	18494.7	22103.8	21933.5	15372.3
72.5°	561.2	585.6	785.1	1073.8	1391.7	1442.0	4301.7	13362.5	17041.4	17017.0	11576.6
75°	400.6	423.4	519.1	768.9	1046.2	892.1	2071.4	9005.7	10833.7	10760.8	7161.4
77.5°	290.3	301.7	347.1	502.8	747.8	639.1	960.3	4809.4	5393.4	5648.0	3164.6
80°	167.1	176.8	241.7	306.6	506.1	436.3	459.0	1930.3	1990.3	1894.6	989.5
82.5°	82.7	94.1	144.4	209.2	316.3	293.6	210.9	580.7	613.1	596.9	249.8
85°	19.5	24.3	81.1	137.9	154.1	131.4	102.2	170.3	210.9	206.0	95.7
87.5°	1.6	3.2	29.2	24.3	26.0	43.8	35.7	43.8	68.1	63.3	34.1
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: P456877

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0
2.5°	2420.1	2389.3	2300.1	2212.5	2139.5	2063.3	1993.5	1953.0	1936.7	1918.9	1927.0
5°	2454.2	2379.6	2199.5	2043.8	1891.3	1761.6	1657.7	1591.2	1558.8	1553.9	1545.8
7.5°	2499.6	2371.5	2092.5	1849.1	1649.6	1505.3	1386.9	1291.2	1262.0	1236.0	1214.9
10°	2554.7	2356.9	1959.4	1644.8	1432.3	1250.6	1094.9	981.3	923.0	906.7	918.1
12.5°	2613.1	2329.3	1820.0	1456.6	1211.7	979.7	835.4	778.6	762.4	755.9	757.5
15°	2671.5	2295.2	1674.0	1274.9	965.1	781.8	715.3	700.7	694.2	691.0	687.8
17.5°	2725.1	2240.1	1510.1	1098.1	781.8	668.3	644.0	631.0	618.0	613.1	605.0
20°	2788.3	2176.8	1362.5	900.2	661.8	605.0	575.8	551.5	532.0	519.1	517.4
22.5°	2848.3	2095.7	1208.4	746.1	603.4	543.4	496.4	470.4	447.7	431.5	436.3
25°	2880.8	1996.8	1070.6	650.4	549.9	481.8	429.8	397.4	373.1	365.0	363.3
27.5°	2880.8	1875.1	935.9	595.3	501.2	426.6	373.1	342.3	326.0	314.7	316.3
30°	2858.1	1740.5	811.0	553.1	459.0	377.9	327.7	300.1	287.1	279.0	277.4
32.5°	2840.2	1612.3	704.0	512.6	415.2	335.8	292.0	270.9	257.9	249.8	249.8
35°	2867.8	1502.0	621.2	472.0	374.7	303.3	264.4	244.9	232.0	225.5	223.8
37.5°	2940.8	1401.5	558.0	428.2	337.4	275.8	244.9	222.2	209.2	201.1	197.9
40°	3120.8	1344.7	510.9	387.7	301.7	253.0	222.2	201.1	184.9	176.8	175.2
42.5°	3409.6	1346.3	465.5	350.4	274.1	233.6	202.8	178.4	160.6	152.5	150.9
45°	3844.3	1407.9	429.8	314.7	249.8	212.5	181.7	155.7	139.5	131.4	131.4
47.5°	4365.0	1528.0	399.0	283.9	227.1	193.0	160.6	134.6	118.4	111.9	111.9
50°	4929.4	1683.7	368.2	251.4	207.6	171.9	137.9	116.8	103.8	98.9	98.9
52.5°	5505.3	1871.9	337.4	225.5	186.5	149.2	118.4	103.8	92.5	89.2	87.6
55°	6261.2	2111.9	304.9	197.9	163.8	128.1	105.4	90.8	77.9	73.0	71.4
57.5°	7424.2	2473.6	269.3	173.6	134.6	107.1	90.8	76.2	61.6	53.5	51.9
60°	8827.3	2914.8	232.0	152.5	108.7	87.6	73.0	58.4	45.4	35.7	34.1
62.5°	10141.1	3195.5	196.3	128.1	86.0	66.5	51.9	43.8	32.4	22.7	21.1
65°	10721.8	3101.4	162.2	103.8	68.1	47.0	34.1	30.8	19.5	9.7	8.1
66°	10528.8	2961.9	149.2	94.1	61.6	40.6	29.2	26.0	14.6	4.9	4.9
67.5°	9959.5	2632.6	129.8	81.1	53.5	32.4	22.7	19.5	8.1	1.6	0.0
70°	8533.7	2129.8	102.2	60.0	38.9	22.7	13.0	9.7	4.9	0.0	0.0
72.5°	6554.7	1586.4	81.1	45.4	27.6	13.0	6.5	3.2	4.9	0.0	0.0
75°	4016.2	906.7	63.3	34.1	17.8	8.1	4.9	0.0	4.9	1.6	0.0
77.5°	1782.6	407.1	42.2	22.7	13.0	6.5	3.2	0.0	3.2	1.6	0.0
80°	450.9	133.0	24.3	16.2	9.7	4.9	1.6	0.0	3.2	3.2	1.6
82.5°	123.3	48.7	17.8	13.0	8.1	4.9	1.6	0.0	3.2	3.2	3.2
85°	48.7	22.7	16.2	13.0	9.7	4.9	1.6	0.0	3.2	3.2	3.2
87.5°	22.7	16.2	16.2	14.6	11.4	4.9	1.6	0.0	3.2	1.6	3.2
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)