

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: P457341

Luminaire Tested: **GALN-SA8C-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457341
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-SA8C-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 33724 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 429
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

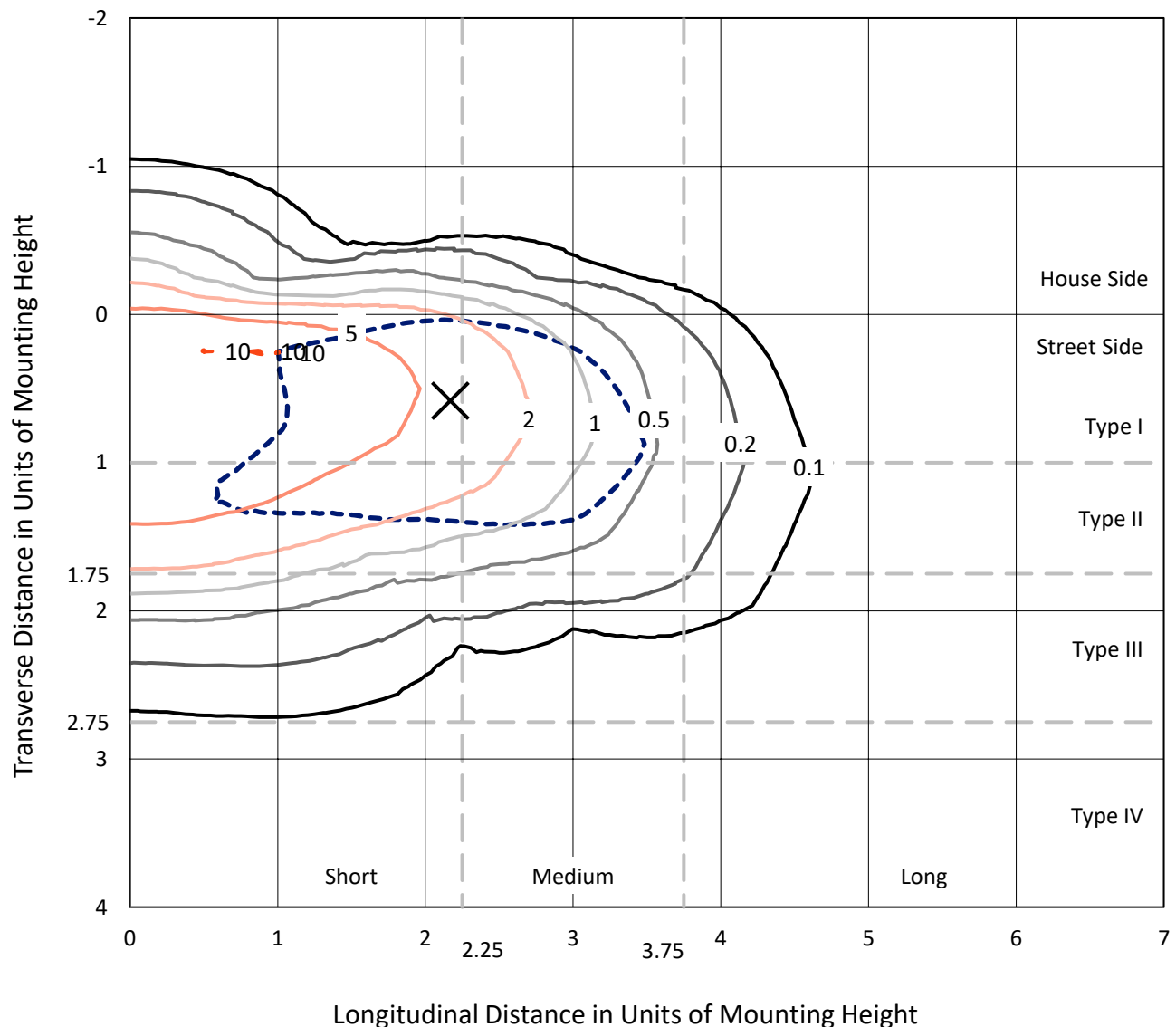


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

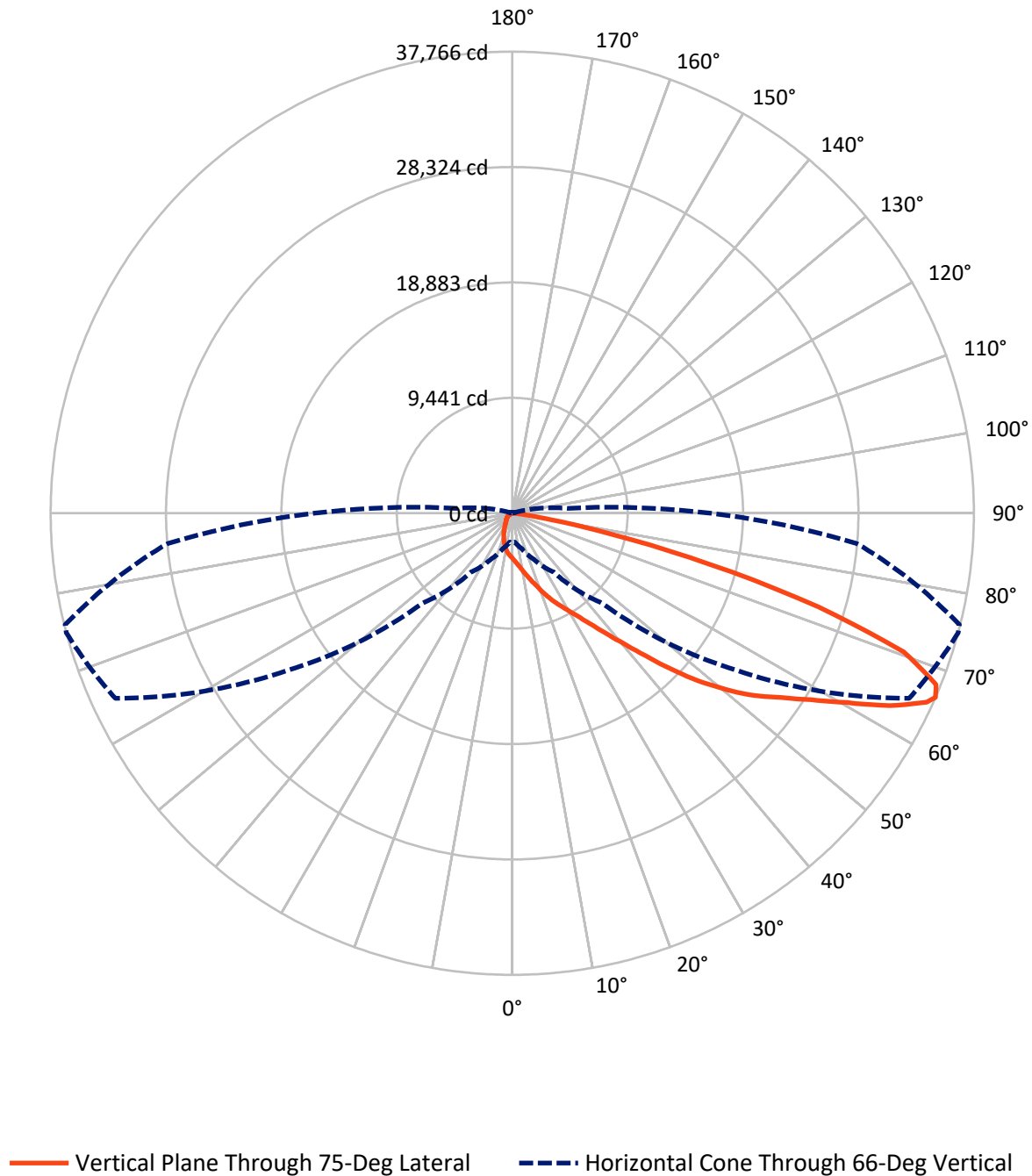


Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2082.0	0.0	2082.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	31642.0	0.0	31642.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	33724.0	0.0	33724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.7	1.1
10°-20°	1046.9	3.1
20°-30°	1807.8	5.4
30°-40°	3260.8	9.7
40°-50°	5890.8	17.5
50°-60°	9183.8	27.2
60°-70°	8724.2	25.9
70°-80°	3269.6	9.7
80°-90°	184.5	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°	33724.0	100.0
0°-180°	33724.0	100.0

Coefficient of Utilization



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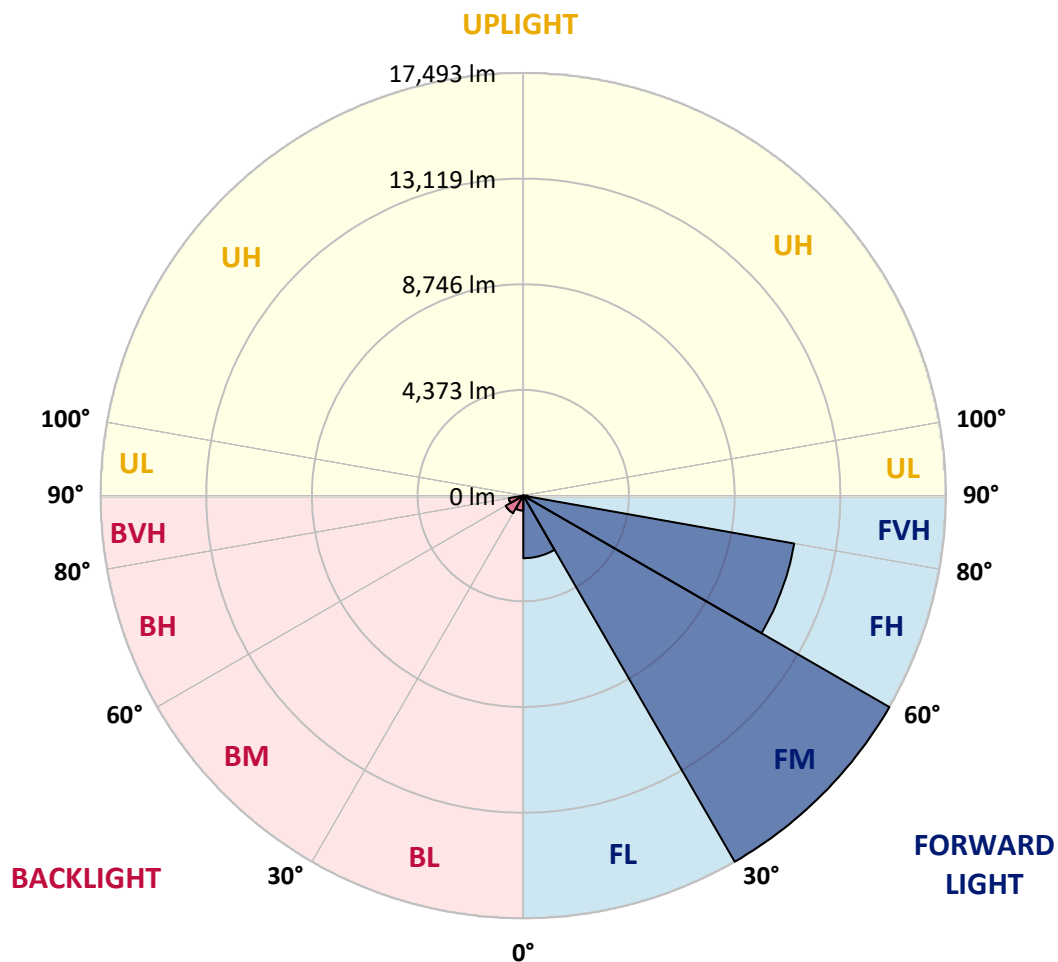
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2588.6	7.7			
FM	(30°-60°)	17492.6	51.9			
FH	(60°-80°)	11385.8	33.8			G4/12000
FVH	(80°-90°)	174.9	0.5			G2/225
BL	(0°-30°)	621.8	1.8	B2/1000		
BM	(30°-60°)	842.7	2.5	B1/1000		
BH	(60°-80°)	608.0	1.8	B2/1000		G2/1000
BVH	(80°-90°)	9.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3688.1	3688.1	3688.1	3688.1	3688.1	3688.1	3688.1	3688.1	3688.1	3688.1	3688.1
2.5°	4406.2	4351.4	4368.8	4343.9	4286.5	4201.7	4126.9	4019.7	3912.5	3895.0	3775.3
5°	4987.2	4972.3	4952.3	4880.0	4840.1	4710.4	4555.8	4371.3	4149.4	4109.5	3892.5
7.5°	5383.7	5376.2	5386.2	5348.8	5313.9	5196.7	5032.1	4780.3	4436.1	4413.7	4052.1
10°	5513.4	5533.3	5570.7	5630.6	5685.4	5648.0	5523.4	5209.2	4807.7	4742.9	4234.2
12.5°	5438.6	5461.0	5550.8	5710.4	5887.4	5989.7	5939.8	5710.4	5201.7	5149.3	4438.6
15°	5246.6	5274.0	5401.2	5648.0	5964.7	6254.0	6378.7	6214.1	5660.5	5575.7	4685.5
17.5°	4962.3	5002.2	5184.2	5510.9	5944.8	6443.5	6795.1	6740.2	6149.2	6069.5	4954.8
20°	4747.8	4777.8	4932.4	5306.4	5860.0	6548.2	7191.6	7346.2	6752.7	6615.6	5271.5
22.5°	4890.0	4899.9	4952.3	5176.7	5707.9	6575.7	7540.7	7977.1	7393.6	7271.4	5600.7
25°	5585.7	5485.9	5433.6	5383.7	5675.5	6550.7	7857.4	8635.4	8031.9	7902.3	5927.3
27.5°	6682.9	6638.0	6373.7	6019.6	5952.3	6583.1	8066.8	9258.8	8632.9	8493.2	6246.5
30°	7877.3	7800.0	7637.9	7119.3	6598.1	6812.5	8218.9	9864.7	9343.6	9159.0	6538.3
32.5°	8974.5	9024.4	8782.5	8248.9	7645.4	7301.3	8415.9	10525.5	10159.0	9929.6	6877.4
35°	10253.7	10353.5	9981.9	9470.7	8765.0	8184.0	8800.0	11271.1	11193.8	10904.6	7401.0
37.5°	11552.9	11612.8	11385.8	10667.7	10031.8	9306.2	9523.1	12191.3	12468.1	12221.2	8026.9
40°	12645.1	12727.4	12560.3	11922.0	11243.7	10605.3	10572.9	13193.7	13984.2	13729.8	8959.5
42.5°	13480.5	13542.8	13547.8	13096.5	12485.5	12196.3	11912.0	14472.9	15884.3	15590.1	10041.8
45°	14535.3	14625.0	14572.7	14266.0	13809.6	13757.3	13610.1	16019.0	18158.5	17786.9	11445.7
47.5°	16166.1	16225.9	16096.3	15734.7	15270.9	15353.2	15265.9	17752.0	20477.5	20158.4	12899.5
50°	17298.2	17397.9	17582.5	17727.1	17390.5	17086.2	16826.9	19370.4	22679.4	22392.6	14385.7
52.5°	17285.7	17450.3	18033.8	18761.9	19497.6	19405.3	18659.7	21158.3	24781.5	24427.4	15782.1
55°	16121.2	16440.4	17298.2	18589.9	20627.2	21642.1	21302.9	23228.0	26596.9	26357.5	17400.4
57.5°	13717.4	13911.9	15103.8	16909.2	19996.3	22694.4	24365.1	26033.3	28773.8	28661.6	19914.0
60°	9226.4	9313.6	10847.2	13079.0	17023.9	21644.6	26609.3	29427.1	31454.4	31399.6	22849.0
62.5°	5286.5	5323.9	6436.0	8318.7	12114.0	18343.0	26798.9	33613.9	34668.7	34698.6	26245.3
65°	2845.2	2865.2	3762.9	4882.5	7371.1	13074.0	24098.3	35908.0	37267.0	37324.4	28349.9
66°	2456.2	2361.5	2994.8	4161.8	5865.0	10405.8	22390.1	35825.7	37765.8	37703.4	28275.1
67.5°	1867.7	1952.5	2391.4	3199.3	4346.4	7398.5	18485.1	34232.3	37386.7	37192.2	27125.5
70°	1336.6	1371.5	1703.1	2281.7	2959.9	4059.6	11812.2	28432.2	33980.5	33718.6	23632.0
72.5°	862.8	900.2	1206.9	1650.8	2139.5	2216.8	6613.1	20542.4	26197.9	26160.5	17796.9
75°	615.9	650.8	798.0	1182.0	1608.4	1371.5	3184.3	13844.5	16654.8	16542.6	11009.3
77.5°	446.4	463.8	533.6	773.0	1149.6	982.5	1476.2	7393.6	8291.3	8682.8	4865.0
80°	256.8	271.8	371.5	471.3	778.0	670.8	705.7	2967.4	3059.7	2912.5	1521.1
82.5°	127.2	144.6	221.9	321.7	486.3	451.3	324.2	892.7	942.6	917.6	384.0
85°	29.9	37.4	124.7	212.0	236.9	202.0	157.1	261.8	324.2	316.7	147.1
87.5°	2.5	5.0	44.9	37.4	39.9	67.3	54.9	67.3	104.7	97.3	52.4
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°	3688.1	3688.1	3688.1	3688.1	3688.1	3688.1	3688.1	3688.1	3688.1	3688.1	3688.1
2.5°	3720.5	3673.1	3535.9	3401.3	3289.1	3171.9	3064.6	3002.3	2977.4	2949.9	2962.4
5°	3772.8	3658.1	3381.3	3142.0	2907.6	2708.1	2548.5	2446.2	2396.4	2388.9	2376.4
7.5°	3842.7	3645.7	3216.8	2842.7	2536.0	2314.1	2132.0	1984.9	1940.0	1900.1	1867.7
10°	3927.4	3623.2	3012.3	2528.5	2201.9	1922.6	1683.2	1508.6	1418.9	1393.9	1411.4
12.5°	4017.2	3580.8	2797.8	2239.3	1862.7	1506.1	1284.2	1196.9	1172.0	1162.0	1164.5
15°	4107.0	3528.5	2573.4	1960.0	1483.7	1201.9	1099.7	1077.2	1067.3	1062.3	1057.3
17.5°	4189.3	3443.7	2321.6	1688.2	1201.9	1027.4	990.0	970.0	950.1	942.6	930.1
20°	4286.5	3346.4	2094.6	1384.0	1017.4	930.1	885.2	847.8	817.9	798.0	795.5
22.5°	4378.8	3221.7	1857.7	1147.1	927.6	835.4	763.0	723.1	688.2	663.3	670.8
25°	4428.7	3069.6	1645.8	999.9	845.3	740.6	660.8	610.9	573.5	561.1	558.6
27.5°	4428.7	2882.6	1438.8	915.2	770.5	655.8	573.5	526.2	501.2	483.8	486.3
30°	4393.7	2675.6	1246.8	850.3	705.7	581.0	503.7	461.3	441.4	428.9	426.4
32.5°	4366.3	2478.7	1082.2	788.0	638.4	516.2	448.9	416.4	396.5	384.0	384.0
35°	4408.7	2309.1	955.1	725.6	576.0	466.3	406.5	376.5	356.6	346.6	344.1
37.5°	4520.9	2154.5	857.8	658.3	518.7	423.9	376.5	341.6	321.7	309.2	304.2
40°	4797.7	2067.2	785.5	596.0	463.8	389.0	341.6	309.2	284.3	271.8	269.3
42.5°	5241.6	2069.7	715.7	538.6	421.4	359.1	311.7	274.3	246.9	234.4	231.9
45°	5909.9	2164.5	660.8	483.8	384.0	326.7	279.3	239.4	214.5	202.0	202.0
47.5°	6710.3	2349.0	613.4	436.4	349.1	296.7	246.9	207.0	182.0	172.1	172.1
50°	7578.1	2588.4	566.1	386.5	319.2	264.3	212.0	179.5	159.6	152.1	152.1
52.5°	8463.3	2877.6	518.7	346.6	286.8	229.4	182.0	159.6	142.1	137.1	134.7
55°	9625.3	3246.7	468.8	304.2	251.9	197.0	162.1	139.6	119.7	112.2	109.7
57.5°	11413.3	3802.8	413.9	266.8	207.0	164.6	139.6	117.2	94.8	82.3	79.8
60°	13570.2	4481.0	356.6	234.4	167.1	134.7	112.2	89.8	69.8	54.9	52.4
62.5°	15590.1	4912.4	301.7	197.0	132.2	102.2	79.8	67.3	49.9	34.9	32.4
65°	16482.8	4767.8	249.4	159.6	104.7	72.3	52.4	47.4	29.9	15.0	12.5
66°	16186.0	4553.3	229.4	144.6	94.8	62.3	44.9	39.9	22.4	7.5	7.5
67.5°	15310.8	4047.1	199.5	124.7	82.3	49.9	34.9	29.9	12.5	2.5	0.0
70°	13118.9	3274.1	157.1	92.3	59.8	34.9	19.9	15.0	7.5	0.0	0.0
72.5°	10076.7	2438.8	124.7	69.8	42.4	19.9	10.0	5.0	7.5	0.0	0.0
75°	6174.2	1393.9	97.3	52.4	27.4	12.5	7.5	0.0	7.5	2.5	0.0
77.5°	2740.5	625.9	64.8	34.9	19.9	10.0	5.0	0.0	5.0	2.5	0.0
80°	693.2	204.5	37.4	24.9	15.0	7.5	2.5	0.0	5.0	5.0	2.5
82.5°	189.5	74.8	27.4	19.9	12.5	7.5	2.5	0.0	5.0	5.0	5.0
85°	74.8	34.9	24.9	19.9	15.0	7.5	2.5	0.0	5.0	5.0	5.0
87.5°	34.9	24.9	24.9	22.4	17.5	7.5	2.5	0.0	5.0	2.5	5.0
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)