

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: P529507

Luminaire Tested: **GALN-SA4C-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12924 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 213
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

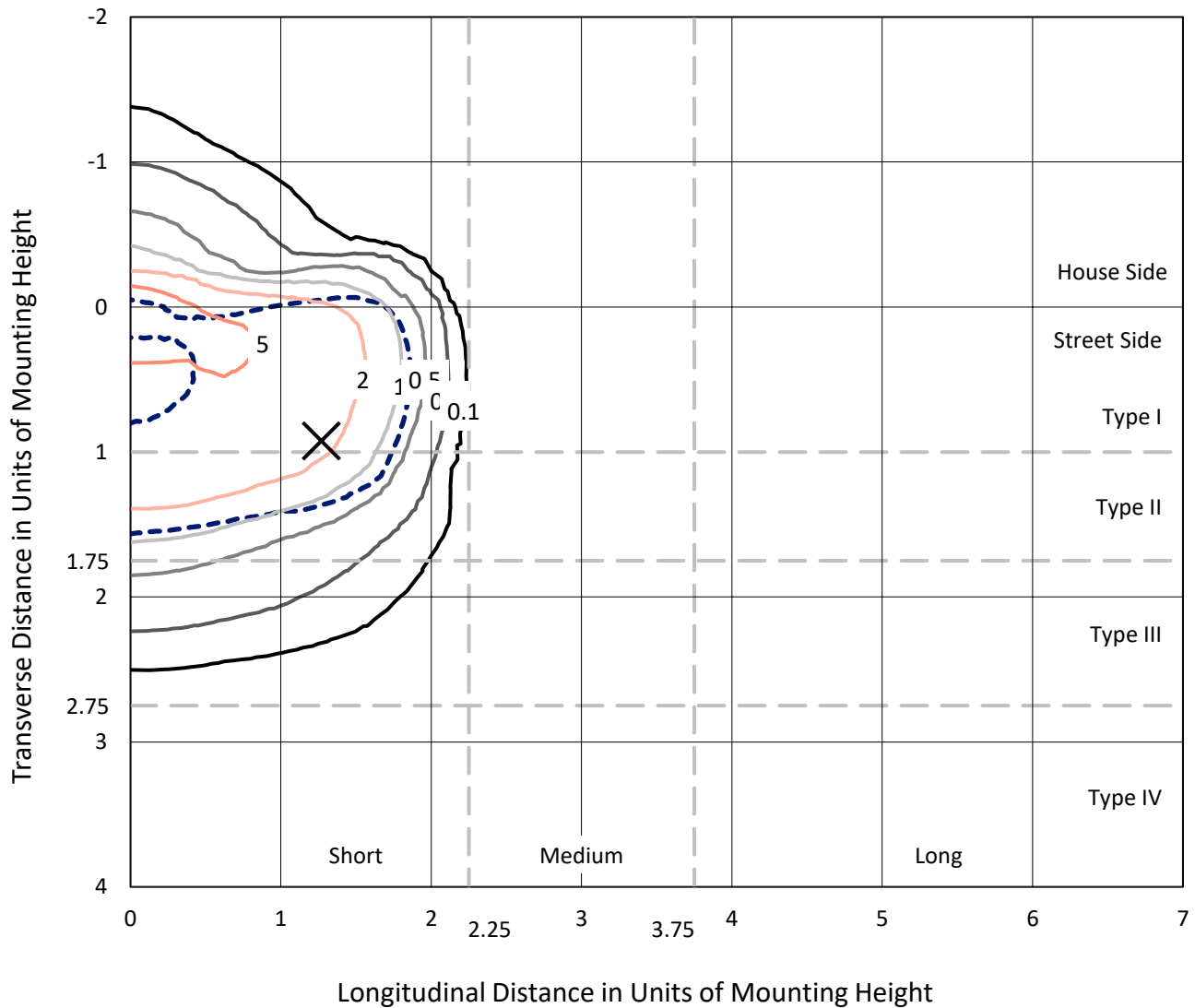


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Iso-Footcandle Lines of Horizontal Illumination

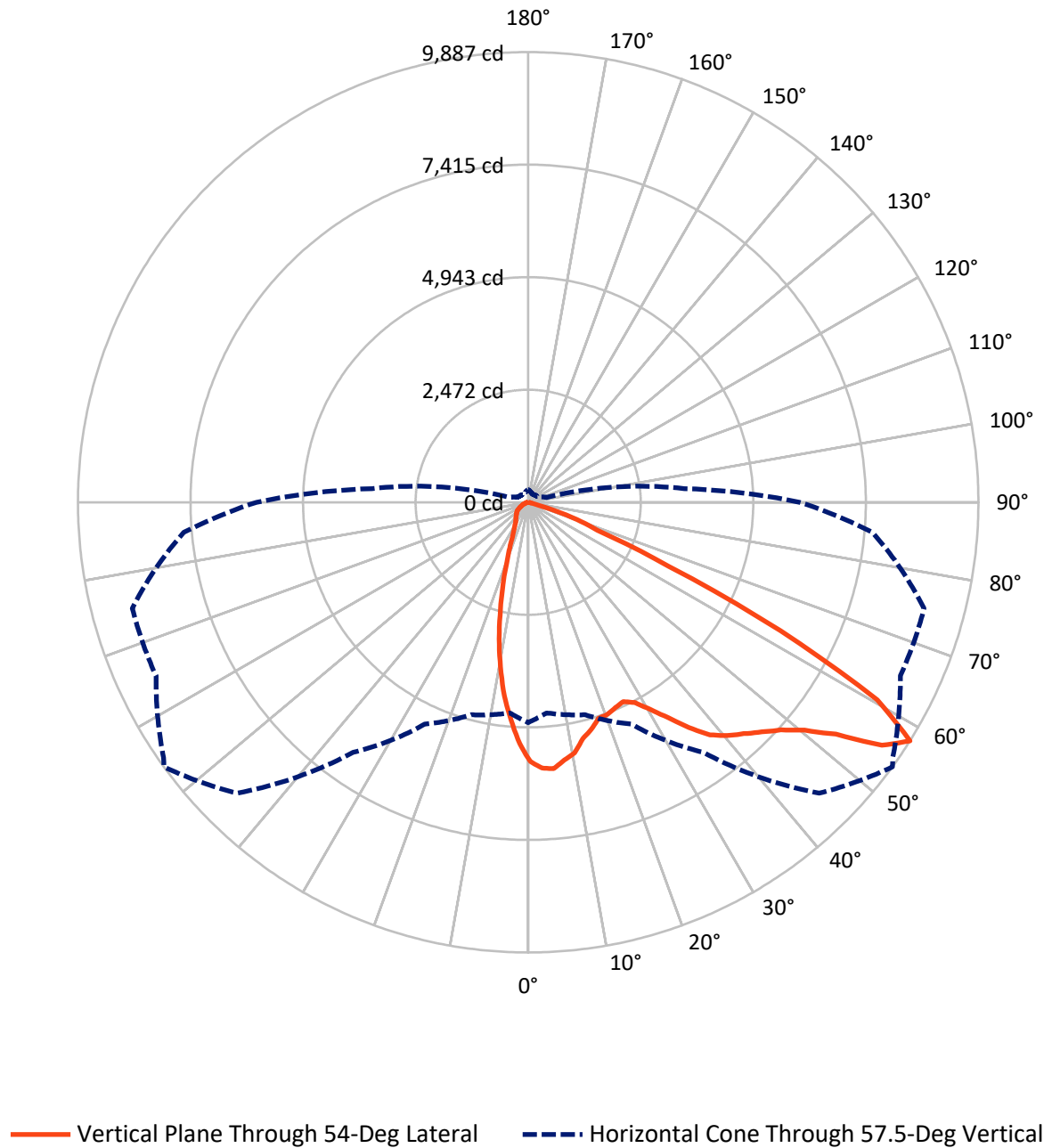
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	1826.4	0.0	1826.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11097.6	0.0	11097.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	12924.0	0.0	12924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.4	3.7
10°-20°	1017.1	7.9
20°-30°	1347.9	10.4
30°-40°	1958.9	15.2
40°-50°	2904.8	22.5
50°-60°	3632.3	28.1
60°-70°	1432.8	11.1
70°-80°	142.7	1.1
80°-90°	11.1	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°	12924.0	100.0
0°-180°	12924.0	100.0

Coefficient of Utilization



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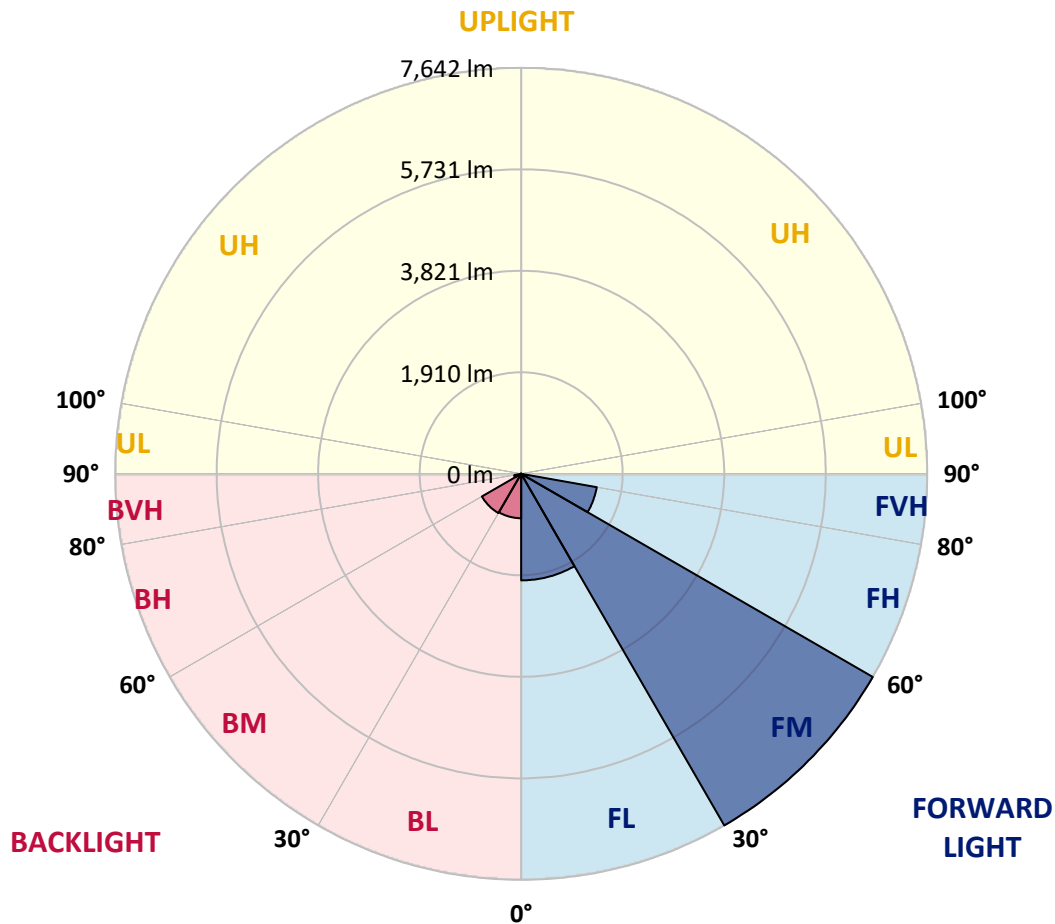
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2006.2	15.5			
FM	(30°-60°)	7641.9	59.1			
FH	(60°-80°)	1444.5	11.2			G1/1800
FVH	(80°-90°)	5.0	0.0			G0/10
BL	(0°-30°)	835.3	6.5	B2/1000		
BM	(30°-60°)	854.1	6.6	B1/1000		
BH	(60°-80°)	131.0	1.0	B1/500		G1/500
BVH	(80°-90°)	6.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5693.2	5693.2	5693.2	5693.2	5693.2	5693.2	5693.2	5693.2	5693.2	5693.2	5693.2
2.5°	6024.8	5962.4	5967.2	5945.5	5916.7	5938.3	5844.6	5866.2	5863.8	5736.5	5652.3
5°	5873.4	5940.7	5871.0	5928.7	5873.4	5933.5	5875.8	5832.6	5762.9	5669.2	5513.0
7.5°	5616.3	5551.4	5570.6	5642.7	5654.7	5789.3	5717.2	5772.5	5743.7	5558.6	5344.7
10°	5099.6	5085.2	5181.3	5277.4	5395.2	5539.4	5594.7	5563.4	5541.8	5472.1	5186.1
12.5°	4703.1	4743.9	4741.5	4900.1	5099.6	5181.3	5325.5	5320.7	5440.9	5311.1	5037.1
15°	4325.8	4347.4	4448.3	4546.9	4768.0	5001.1	5178.9	5202.9	5347.1	5255.8	4921.8
17.5°	4095.1	4063.8	4143.1	4260.9	4486.8	4792.0	4989.1	5046.7	5243.8	5224.6	4789.6
20°	3866.8	3866.8	3931.6	4071.0	4277.7	4621.4	4972.2	4955.4	5243.8	5188.5	4647.8
22.5°	3789.9	3828.3	3845.1	3950.9	4196.0	4491.6	4900.1	4931.4	5284.7	5171.7	4585.3
25°	3895.6	3845.1	3849.9	3934.0	4164.8	4429.1	4847.3	4917.0	5359.2	5255.8	4534.9
27.5°	3912.4	3962.9	3977.3	4035.0	4188.8	4448.3	4979.4	5121.2	5544.2	5452.9	4549.3
30°	4059.0	4109.5	4107.1	4205.6	4311.4	4604.5	5275.0	5303.9	5926.3	5700.4	4638.2
32.5°	4236.9	4289.7	4306.5	4421.9	4506.0	4890.5	5635.5	5710.0	6294.0	6089.7	4871.3
35°	4457.9	4438.7	4515.6	4631.0	4811.2	5308.7	6075.3	6200.3	6690.5	6594.4	5111.6
37.5°	4734.3	4710.3	4784.8	4972.2	5217.4	5803.7	6481.4	6563.2	6978.9	7063.0	5556.2
40°	4929.0	4938.6	5164.5	5416.8	5676.4	6274.8	6738.6	6817.9	7180.8	7500.4	5892.7
42.5°	5253.4	5313.5	5585.1	5892.7	6164.2	6628.0	6947.7	7024.6	7274.5	7851.3	6346.9
45°	5724.4	5698.0	5998.4	6342.1	6642.5	6995.7	7195.2	7168.8	7329.8	8199.7	6632.8
47.5°	6330.0	6334.9	6534.3	6827.5	7139.9	7315.4	7471.6	7377.8	7445.1	8567.4	7015.0
50°	6743.4	6779.4	6940.5	7240.9	7397.1	7666.2	7865.7	7808.0	7786.4	8788.5	7255.3
52.5°	6849.1	6957.3	7043.8	7418.7	7784.0	8209.4	8464.1	8586.7	8202.1	8863.0	7560.5
55°	6051.3	6147.4	6452.6	6966.9	7930.6	9069.7	9420.6	9423.0	8745.3	9194.7	7774.4
57.5°	4837.7	4643.0	4830.4	5376.0	6704.9	9033.7	9886.8	9773.8	9016.8	9000.0	7589.3
60°	3345.3	3297.2	3309.2	3525.5	4640.6	7185.6	8810.2	8956.8	8303.1	7800.8	6008.0
62.5°	2650.7	2609.9	2557.0	2533.0	2881.4	4477.2	6214.7	6421.4	5806.1	5058.7	3561.6
65°	2076.4	2052.3	2059.5	2155.7	2153.3	2540.2	3398.1	3314.0	2653.1	1961.0	1119.9
67.5°	1401.1	1437.1	1466.0	1756.7	1905.7	1768.8	1641.4	1593.3	862.8	362.9	247.5
70°	788.3	793.1	824.3	1098.3	1446.7	1372.2	1131.9	1131.9	430.2	132.2	141.8
72.5°	430.2	415.8	386.9	473.4	644.1	653.7	504.7	439.8	127.4	86.5	79.3
75°	209.1	206.7	177.8	146.6	139.4	115.4	88.9	81.7	57.7	55.3	48.1
77.5°	43.3	40.9	21.6	21.6	24.0	26.4	33.6	33.6	40.9	40.9	33.6
80°	0.0	0.0	2.4	9.6	16.8	24.0	28.8	28.8	33.6	33.6	26.4
82.5°	0.0	0.0	2.4	7.2	14.4	21.6	26.4	28.8	33.6	36.0	28.8
85°	0.0	0.0	0.0	4.8	12.0	16.8	14.4	14.4	12.0	9.6	4.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5693.2	5693.2	5693.2	5693.2	5693.2	5693.2	5693.2	5693.2	5693.2	5693.2	5693.2
2.5°	5609.1	5604.3	5493.7	5431.2	5318.3	5219.8	5140.5	5082.8	5082.8	5046.7	5013.1
5°	5450.5	5409.6	5174.1	5022.7	4808.8	4650.2	4542.1	4457.9	4325.8	4361.8	4220.0
7.5°	5253.4	5150.1	4837.7	4606.9	4311.4	4085.5	3854.7	3650.5	3453.4	3364.5	3412.6
10°	5041.9	4861.7	4441.1	4075.8	3708.1	3294.8	3025.6	2698.8	2496.9	2484.9	2432.0
12.5°	4818.4	4614.2	4102.3	3597.6	3114.6	2617.1	2206.1	1900.9	1764.0	1612.6	1641.4
15°	4650.2	4347.4	3725.0	3117.0	2475.3	1973.0	1559.7	1324.2	1194.4	1158.3	1146.3
17.5°	4467.6	4143.1	3340.5	2605.1	1941.8	1420.3	1122.3	1009.3	958.9	958.9	951.7
20°	4277.7	3912.4	2958.3	2129.2	1456.3	1059.8	898.8	862.8	860.3	857.9	857.9
22.5°	4152.7	3648.1	2612.3	1691.9	1098.3	848.3	781.0	766.6	776.2	805.1	805.1
25°	4020.6	3393.3	2230.2	1304.9	850.7	728.2	689.7	699.3	723.4	749.8	740.2
27.5°	3886.0	3227.5	1869.7	1023.8	696.9	636.8	622.4	644.1	670.5	694.5	687.3
30°	3854.7	3049.7	1528.4	776.2	598.4	555.1	564.8	584.0	610.4	620.0	629.6
32.5°	3902.8	2910.3	1252.1	636.8	521.5	509.5	509.5	519.1	535.9	557.5	550.3
35°	4039.8	2831.0	990.1	552.7	478.2	466.2	463.8	473.4	483.0	490.3	483.0
37.5°	4248.9	2768.5	809.9	490.3	449.4	430.2	425.4	423.0	432.6	435.0	439.8
40°	4515.6	2802.1	687.3	451.8	420.6	398.9	384.5	384.5	384.5	391.7	394.1
42.5°	4804.0	2847.8	593.6	430.2	394.1	367.7	353.3	348.5	353.3	362.9	360.5
45°	5106.8	2936.7	533.5	396.5	370.1	336.4	317.2	312.4	324.4	343.7	341.3
47.5°	5390.4	3064.1	487.9	374.9	346.1	314.8	290.8	286.0	307.6	334.0	336.4
50°	5674.0	3285.2	471.0	358.1	329.2	293.2	271.6	266.8	290.8	324.4	331.6
52.5°	6000.8	3523.1	459.0	336.4	310.0	276.4	252.3	247.5	274.0	317.2	319.6
55°	6214.7	3725.0	449.4	298.0	274.0	249.9	230.7	228.3	257.1	295.6	305.2
57.5°	5964.8	3443.8	415.8	259.5	233.1	221.1	204.3	204.3	228.3	264.4	271.6
60°	4522.8	2266.2	295.6	209.1	197.1	189.9	182.6	182.6	201.9	228.3	230.7
62.5°	2648.3	1220.8	189.9	168.2	168.2	161.0	149.0	149.0	168.2	182.6	185.0
65°	785.8	391.7	153.8	144.2	141.8	129.8	117.8	115.4	129.8	137.0	134.6
67.5°	225.9	180.2	127.4	120.2	117.8	98.5	91.3	88.9	91.3	86.5	84.1
70°	134.6	122.6	98.5	100.9	88.9	72.1	64.9	62.5	57.7	50.5	45.7
72.5°	74.5	74.5	72.1	76.9	62.5	48.1	40.9	33.6	26.4	21.6	19.2
75°	45.7	48.1	50.5	52.9	40.9	31.2	26.4	16.8	9.6	4.8	4.8
77.5°	31.2	33.6	36.0	38.5	33.6	28.8	21.6	12.0	2.4	0.0	0.0
80°	24.0	26.4	31.2	33.6	36.0	38.5	28.8	12.0	2.4	0.0	0.0
82.5°	26.4	28.8	36.0	33.6	33.6	33.6	26.4	12.0	2.4	0.0	0.0
85°	4.8	7.2	12.0	12.0	16.8	21.6	16.8	4.8	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)