

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: P527629

Luminaire Tested: **GALN-SA2C-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8381 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 108
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



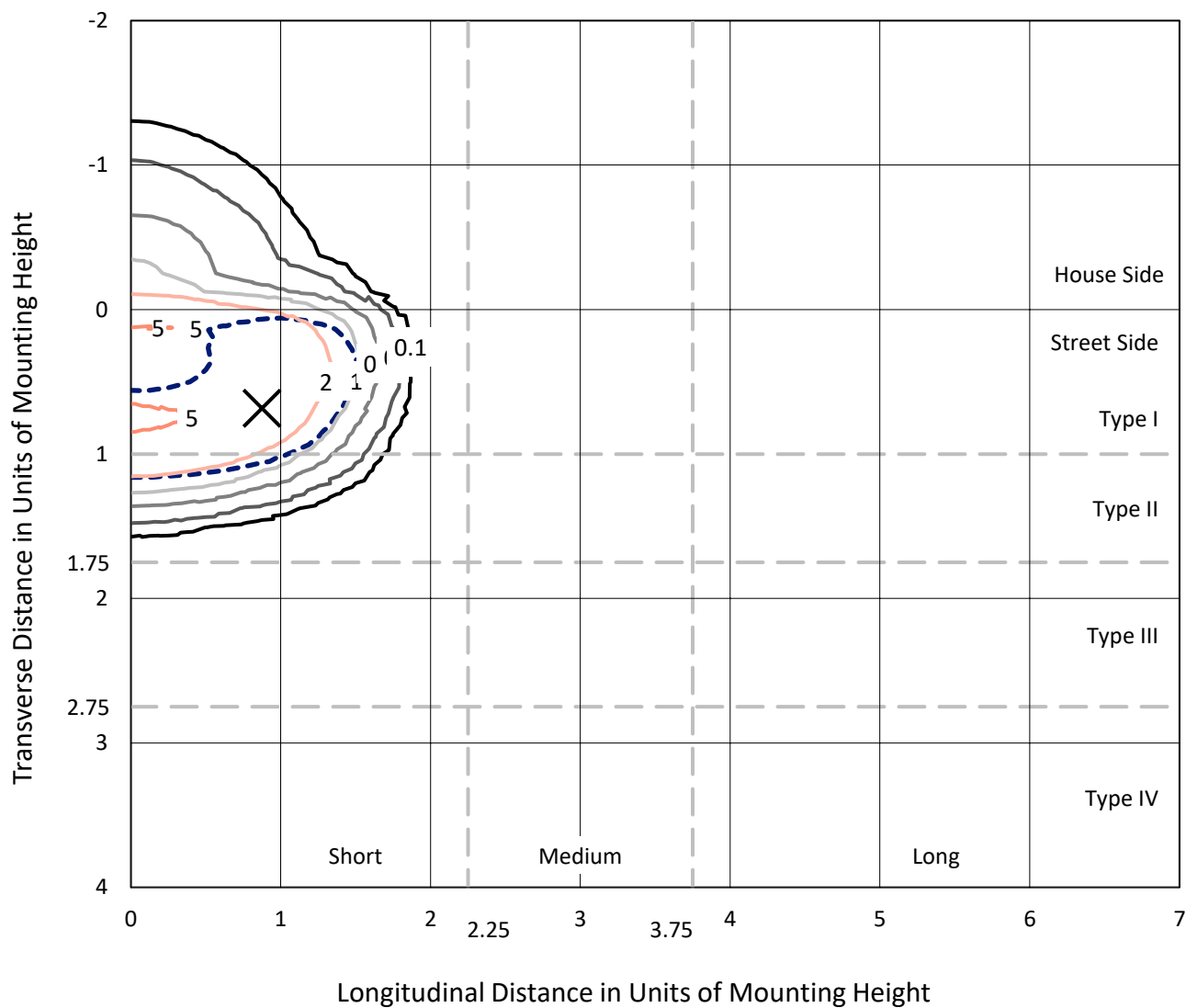
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

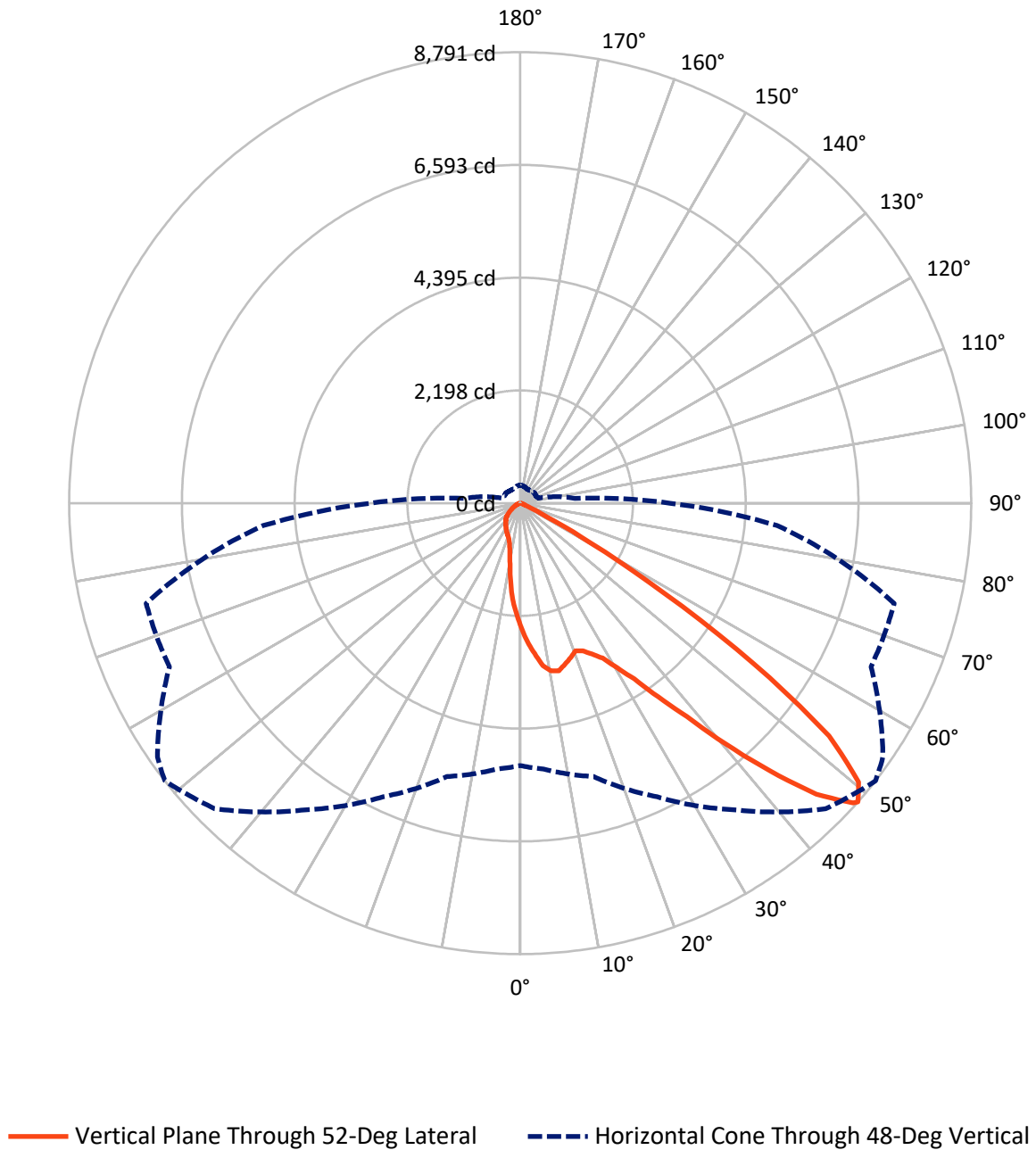


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1020.5	0.0	1020.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	7360.6	0.0	7360.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	8381.0	0.0	8381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.5	2.6
10°-20°	578.9	6.9
20°-30°	988.5	11.8
30°-40°	1820.3	21.7
40°-50°	2826.9	33.7
50°-60°	1701.3	20.3
60°-70°	196.8	2.3
70°-80°	38.1	0.5
80°-90°	8.8	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°	8381.0	100.0
0°-180°	8381.0	100.0

Coefficient of Utilization



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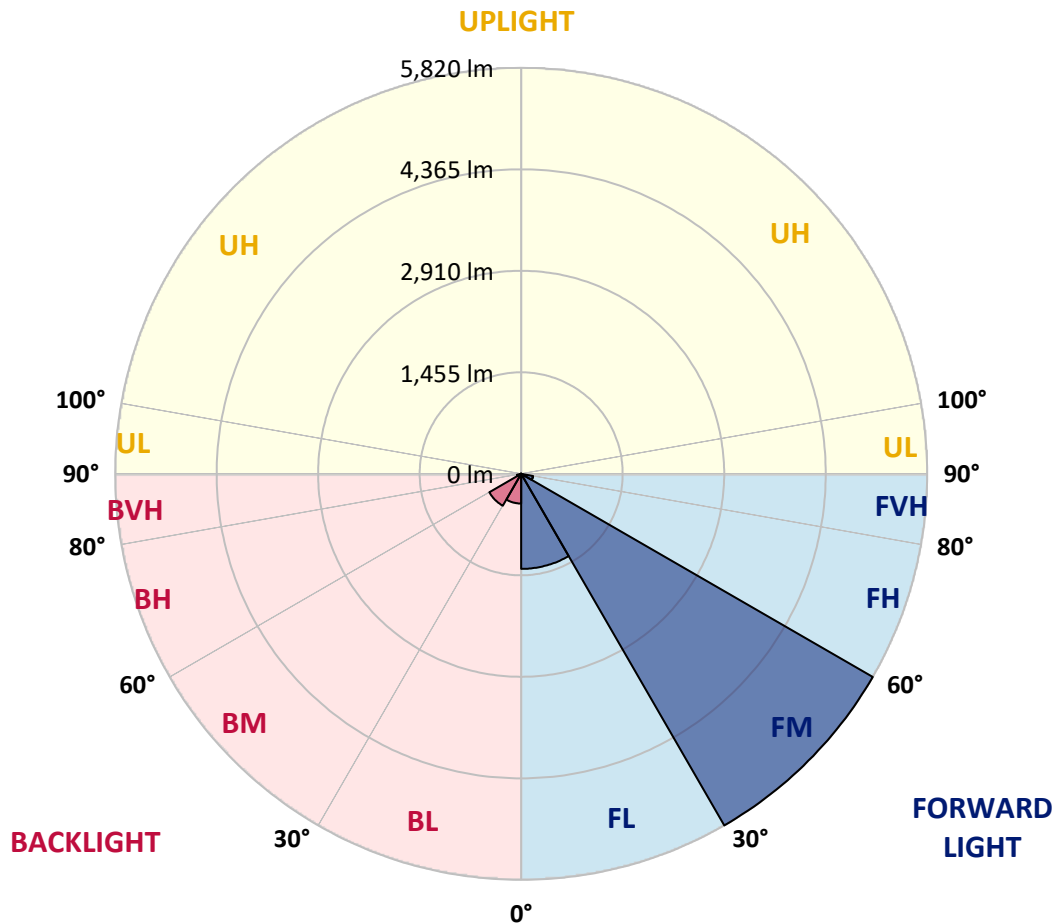
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1362.6	16.3			
FM	(30°-60°)	5820.4	69.4			
FH	(60°-80°)	173.3	2.1			G0/660
FVH	(80°-90°)	4.2	0.1			G0/10
BL	(0°-30°)	426.3	5.1	B1/500		
BM	(30°-60°)	528.0	6.3	B1/1000		
BH	(60°-80°)	61.6	0.7	B0/110		G0/110
BVH	(80°-90°)	4.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3
2.5°	2933.4	2866.2	2872.3	2828.4	2802.7	2761.2	2705.0	2694.0	2632.9	2549.8	2465.5
5°	3197.3	3181.4	3202.2	3138.7	3141.1	3072.7	2940.8	2943.2	2802.7	2667.1	2536.4
7.5°	3214.4	3177.8	3198.6	3254.8	3287.7	3275.5	3201.0	3136.2	3003.1	2803.9	2613.3
10°	2878.5	2948.1	2970.1	3062.9	3194.9	3334.2	3325.6	3329.3	3218.1	2957.9	2679.3
12.5°	2676.9	2630.4	2705.0	2761.2	2960.3	3230.3	3353.7	3380.6	3389.1	3106.9	2745.3
15°	2585.2	2585.2	2597.4	2613.3	2757.5	3006.7	3258.4	3336.6	3521.1	3302.4	2849.1
17.5°	2642.7	2640.2	2657.3	2624.3	2678.1	2869.9	3170.5	3259.6	3668.9	3494.2	2931.0
20°	2817.4	2825.9	2814.9	2719.6	2723.3	2867.5	3072.7	3213.2	3769.1	3660.4	3039.7
22.5°	3060.5	3065.4	3003.1	2899.2	2868.7	2939.5	3128.9	3236.4	3849.7	3859.5	3072.7
25°	3341.5	3321.9	3309.7	3163.1	3070.3	3131.4	3256.0	3318.3	3899.8	4030.6	3166.8
27.5°	3731.2	3692.1	3617.6	3486.9	3418.5	3331.7	3420.9	3523.5	4042.8	4270.0	3269.4
30°	4306.7	4272.5	4127.1	3958.5	3778.9	3693.4	3721.5	3777.7	4300.6	4547.4	3405.0
32.5°	5172.9	5100.8	4890.7	4569.4	4325.0	4089.2	4081.9	4141.7	4531.5	4931.0	3566.3
35°	6127.1	6105.1	5796.0	5464.9	4992.1	4628.0	4634.1	4665.9	4973.8	5434.4	3777.7
37.5°	6761.2	6882.1	6685.4	6329.9	5932.8	5412.4	5280.4	5291.4	5581.0	6030.6	4158.8
40°	7251.1	7148.5	7171.7	7088.6	6817.4	6463.1	6171.1	6113.7	6283.5	6690.3	4537.6
42.5°	7037.3	7042.2	7185.1	7381.8	7449.0	7423.4	7125.3	7016.5	6884.6	7230.3	4898.0
45°	6433.8	6559.6	6745.3	7265.8	7722.7	8151.5	8092.9	7912.1	7300.0	7658.0	5105.7
47.5°	5471.0	5466.1	5770.3	6447.2	7462.5	8466.8	8733.1	8606.0	7594.4	7610.3	5062.9
48°	5115.5	5203.4	5517.4	6314.0	7297.5	8420.3	8790.5	8630.5	7544.3	7546.8	5026.3
50°	3781.3	3765.4	4156.4	5133.8	6518.1	7912.1	8548.6	8673.2	7543.1	7225.4	4769.7
52.5°	1997.6	2066.0	2350.7	3227.9	4608.5	6475.3	7540.7	7734.9	7276.8	6700.1	4400.8
55°	849.1	767.3	986.0	1457.6	2592.6	4326.2	5532.1	5964.6	6152.8	5929.2	3849.7
57.5°	303.0	331.1	381.2	548.6	1089.8	2367.8	3298.7	3634.7	4262.7	4350.7	2623.1
60°	194.3	197.9	213.8	251.7	409.3	912.6	1565.1	1832.6	2117.3	2185.7	1224.2
62.5°	150.3	151.5	158.8	164.9	194.3	354.3	587.7	696.4	723.3	621.9	321.3
65°	125.8	127.1	129.5	129.5	138.1	166.2	205.3	226.0	219.9	217.5	182.0
67.5°	96.5	99.0	103.8	103.8	108.7	101.4	113.6	121.0	136.8	166.2	155.2
70°	75.7	77.0	80.6	83.1	83.1	73.3	81.9	89.2	100.2	123.4	122.2
72.5°	58.6	61.1	63.5	63.5	59.9	50.1	58.6	64.8	72.1	85.5	83.1
75°	45.2	45.2	46.4	37.9	29.3	25.7	35.4	42.8	53.8	56.2	46.4
77.5°	12.2	13.4	12.2	11.0	12.2	18.3	23.2	26.9	34.2	34.2	30.5
80°	0.0	1.2	3.7	7.3	12.2	17.1	20.8	23.2	26.9	29.3	28.1
82.5°	0.0	1.2	3.7	7.3	11.0	13.4	18.3	19.5	22.0	25.7	25.7
85°	0.0	1.2	2.4	4.9	7.3	8.6	8.6	7.3	7.3	6.1	4.9
87.5°	0.0	0.0	1.2	2.4	2.4	3.7	3.7	3.7	3.7	3.7	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3
2.5°	2432.5	2394.6	2337.2	2246.8	2160.1	2103.9	2050.1	1990.2	1957.2	1954.8	1936.5
5°	2461.8	2376.3	2239.5	2084.3	1918.2	1775.2	1631.0	1537.0	1452.7	1406.2	1397.7
7.5°	2477.7	2366.5	2145.4	1885.2	1601.7	1368.4	1207.1	1088.6	1042.2	1007.9	1006.7
10°	2510.7	2349.4	2004.9	1621.3	1270.6	1034.8	923.6	869.9	844.2	834.5	819.8
12.5°	2535.1	2317.7	1860.7	1350.0	1004.3	857.7	808.8	796.6	797.8	802.7	796.6
15°	2569.3	2289.6	1666.5	1108.1	843.0	772.1	772.1	774.6	791.7	794.1	792.9
17.5°	2566.9	2234.6	1466.1	912.6	745.3	735.5	739.2	762.4	773.4	777.0	768.5
20°	2596.2	2183.3	1259.6	779.5	690.3	705.0	729.4	735.5	748.9	751.4	741.6
22.5°	2587.7	2055.0	1067.8	674.4	648.8	676.9	701.3	708.6	705.0	697.6	696.4
25°	2571.8	1945.0	891.9	604.8	618.2	648.8	672.0	658.5	651.2	652.4	653.6
27.5°	2543.7	1805.8	746.5	555.9	576.7	621.9	620.7	615.8	623.1	617.0	623.1
30°	2538.8	1666.5	626.8	511.9	546.1	579.1	581.6	590.1	598.7	587.7	598.7
32.5°	2546.1	1513.8	541.2	485.0	527.8	529.0	555.9	564.5	558.3	533.9	536.3
35°	2602.3	1396.5	478.9	470.4	498.5	499.7	525.4	514.4	487.5	472.8	481.4
37.5°	2720.8	1298.7	449.6	456.9	459.4	475.3	476.5	454.5	456.9	455.7	460.6
40°	2872.3	1224.2	428.8	444.7	442.3	453.3	409.3	421.5	432.5	436.2	438.6
42.5°	2976.2	1170.4	415.4	425.2	420.3	400.7	376.3	388.5	397.1	410.5	413.0
45°	3022.6	1127.7	399.5	391.0	391.0	355.5	345.8	348.2	367.7	382.4	380.0
47.5°	2946.9	1086.1	371.4	345.8	354.3	325.0	314.0	314.0	334.8	353.1	349.4
48°	2917.5	1069.0	372.6	336.0	342.1	320.1	309.1	306.7	329.9	347.0	347.0
50°	2772.2	1005.5	340.9	309.1	296.9	294.4	287.1	289.6	304.2	320.1	320.1
52.5°	2488.7	868.7	288.3	265.1	243.1	257.8	261.5	256.6	263.9	278.6	277.3
55°	2077.0	667.1	230.9	219.9	202.8	218.7	226.0	219.9	212.6	223.6	223.6
57.5°	1330.5	359.2	184.5	186.9	169.8	185.7	191.8	177.2	163.7	172.3	171.0
60°	599.9	215.0	151.5	147.8	136.8	155.2	164.9	147.8	129.5	135.6	141.7
62.5°	224.8	152.7	114.8	112.4	110.0	127.1	131.9	118.5	100.2	103.8	105.1
65°	164.9	134.4	91.6	83.1	88.0	100.2	97.7	84.3	72.1	72.1	74.5
67.5°	140.5	117.3	74.5	64.8	64.8	66.0	61.1	53.8	50.1	52.5	55.0
70°	110.0	92.9	58.6	50.1	45.2	40.3	35.4	34.2	30.5	34.2	33.0
72.5°	70.9	62.3	45.2	37.9	34.2	28.1	23.2	22.0	18.3	17.1	17.1
75°	37.9	37.9	35.4	30.5	26.9	22.0	18.3	14.7	9.8	7.3	7.3
77.5°	26.9	29.3	31.8	29.3	24.4	18.3	14.7	9.8	4.9	2.4	2.4
80°	25.7	29.3	31.8	28.1	24.4	18.3	13.4	7.3	3.7	1.2	1.2
82.5°	23.2	26.9	29.3	25.7	22.0	15.9	12.2	7.3	3.7	1.2	1.2
85°	4.9	6.1	7.3	7.3	8.6	11.0	8.6	6.1	2.4	1.2	1.2
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	2.4	2.4	1.2	1.2	1.2
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)