

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: P529505

Luminaire Tested: **GALN-SA4C-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
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-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12900 lumens
Efficiency: N/A
Efficacy: 60.6 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



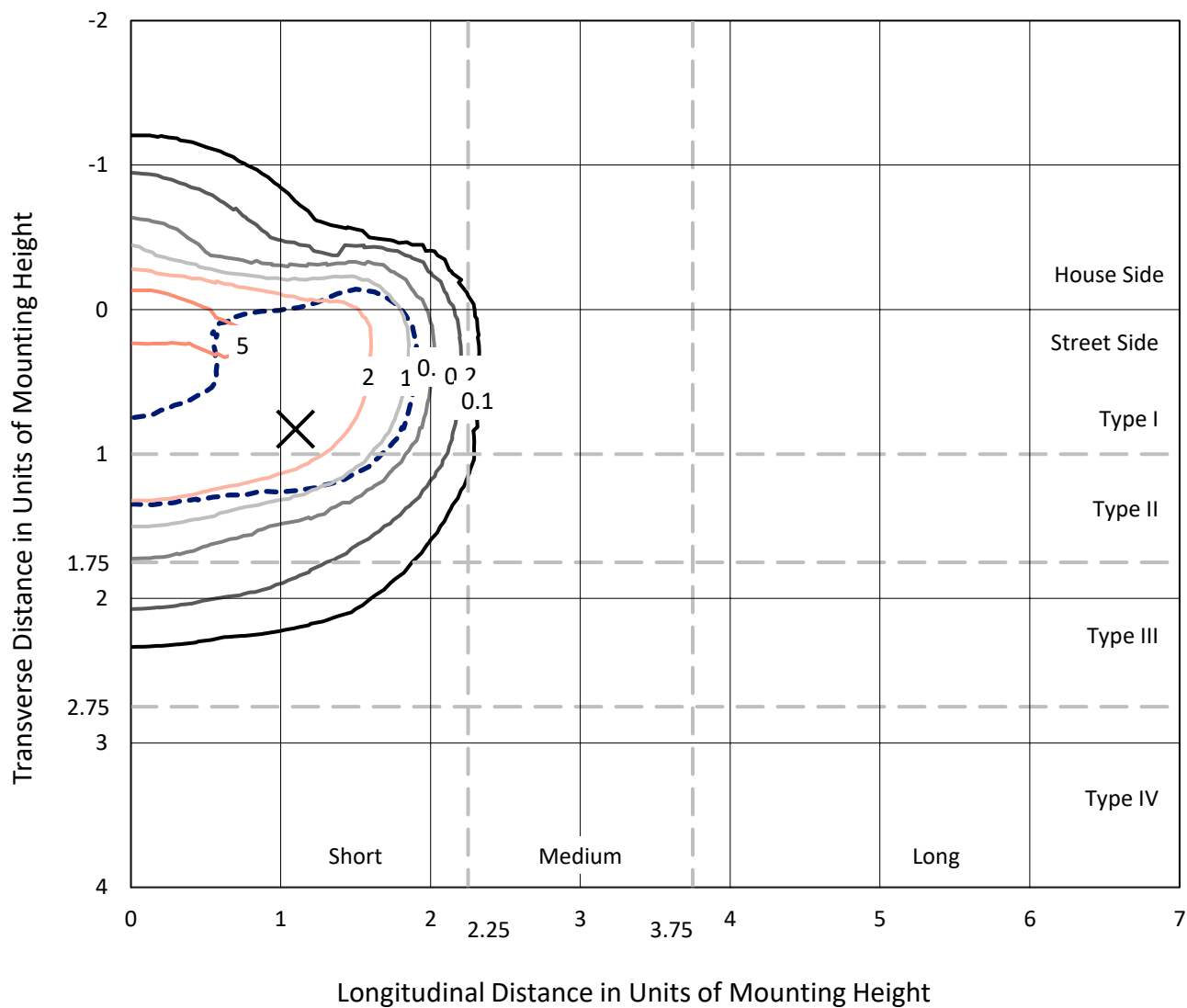
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

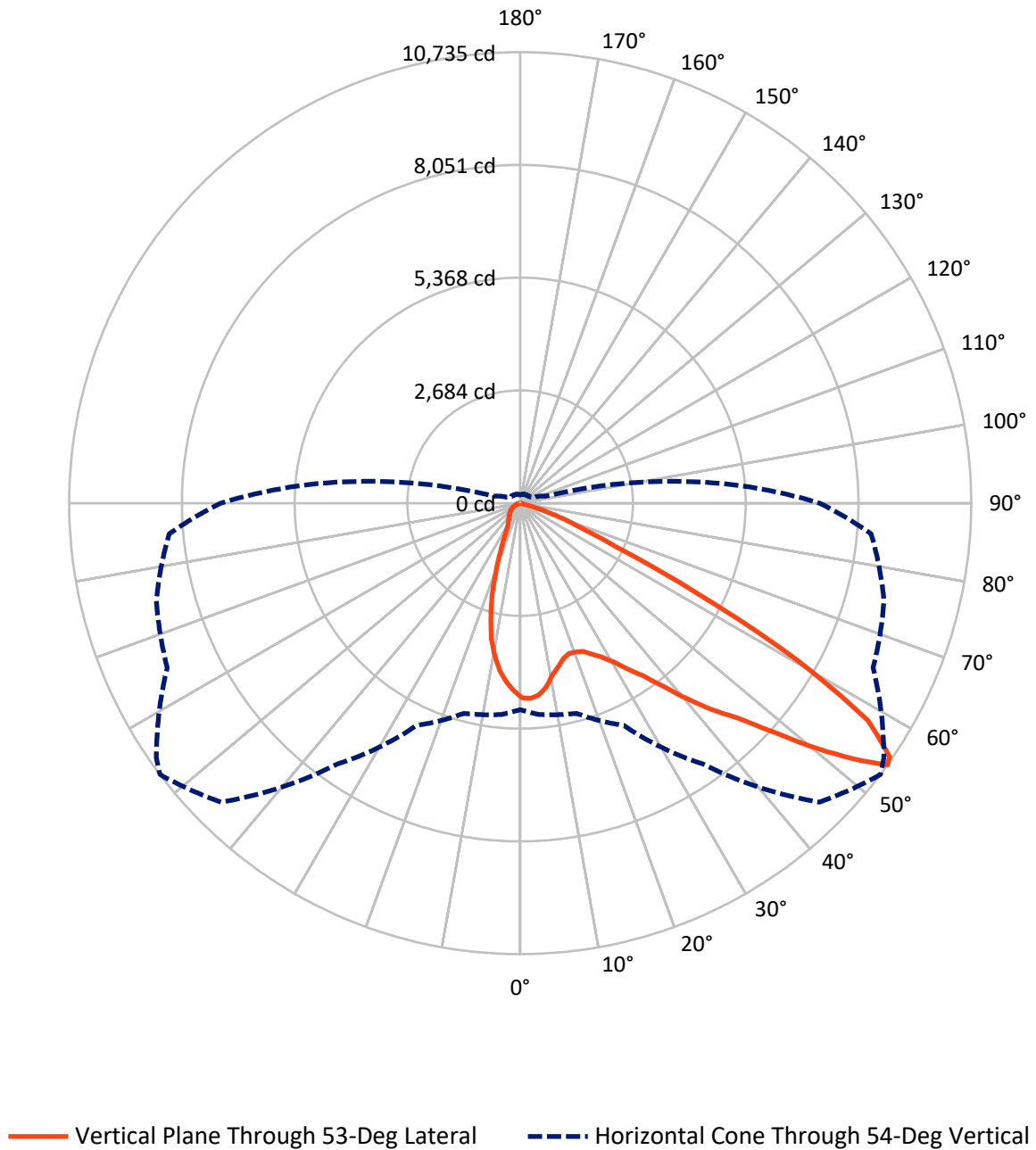
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2134.3	0.0	2134.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	10765.7	0.0	10765.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	12900.0	0.0	12900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.5	3.1
10°-20°	911.4	7.1
20°-30°	1295.3	10.0
30°-40°	1999.1	15.5
40°-50°	3134.3	24.3
50°-60°	3641.0	28.2
60°-70°	1375.8	10.7
70°-80°	130.8	1.0
80°-90°	14.7	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°	12900.0	100.0
0°-180°	12900.0	100.0

Coefficient of Utilization



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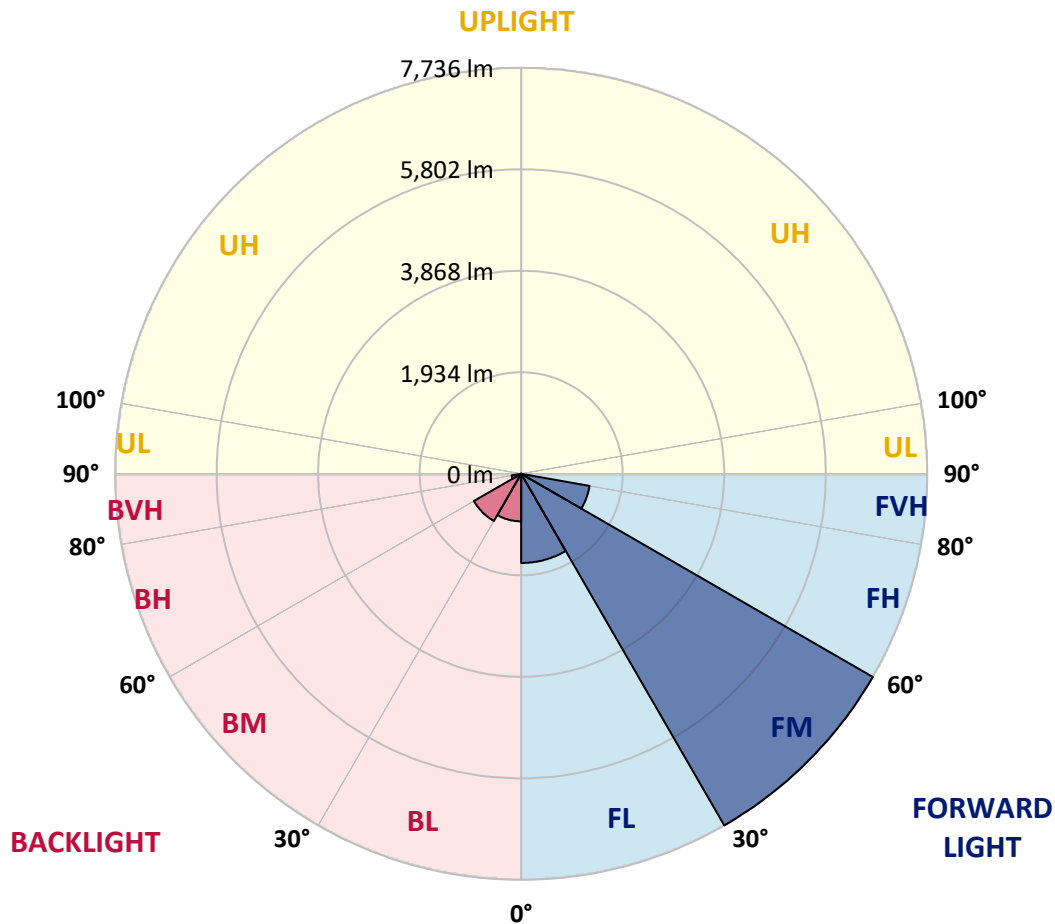
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1698.6	13.2			
FM	(30°-60°)	7735.7	60.0			
FH	(60°-80°)	1323.7	10.3			G1/1800
FVH	(80°-90°)	7.6	0.1			G0/10
BL	(0°-30°)	905.7	7.0	B2/1000		
BM	(30°-60°)	1038.6	8.1	B2/2500		
BH	(60°-80°)	182.9	1.4	B1/500		G1/500
BVH	(80°-90°)	7.1	0.1			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°	53°	55°	65°	75°	85°
0°	4633.5	4633.5	4633.5	4633.5	4633.5	4633.5	4633.5	4633.5	4633.5	4633.5	4633.5
2.5°	4609.4	4568.6	4609.4	4614.2	4643.1	4669.5	4652.7	4691.1	4669.5	4645.5	4638.3
5°	4236.9	4292.2	4294.6	4381.1	4361.9	4520.5	4590.2	4571.0	4688.7	4681.5	4664.7
7.5°	3902.9	3881.2	3910.1	4011.0	4138.4	4321.0	4422.0	4419.6	4587.8	4708.0	4695.9
10°	3592.9	3590.5	3650.5	3729.8	3838.0	4030.2	4169.6	4239.3	4501.3	4683.9	4710.4
12.5°	3383.8	3374.2	3439.0	3503.9	3674.6	3823.6	4001.4	4035.1	4335.5	4599.8	4643.1
15°	3246.8	3268.4	3273.2	3398.2	3506.3	3703.4	3842.8	3912.5	4258.6	4532.5	4698.4
17.5°	3222.8	3251.6	3254.0	3357.3	3472.7	3638.5	3761.1	3854.8	4193.7	4566.2	4700.8
20°	3270.8	3254.0	3268.4	3333.3	3446.3	3604.9	3782.7	3814.0	4172.0	4583.0	4727.2
22.5°	3407.8	3403.0	3367.0	3419.8	3499.1	3665.0	3833.2	3881.2	4234.5	4669.5	4748.8
25°	3559.2	3585.6	3552.0	3544.8	3600.1	3763.5	3987.0	4049.5	4443.6	4825.7	4816.1
27.5°	3842.8	3816.4	3816.4	3782.7	3768.3	3847.6	4152.8	4256.2	4676.7	5027.6	4893.0
30°	4114.4	4143.2	4121.6	4133.6	4037.5	4030.2	4388.3	4515.7	5090.1	5335.2	5056.4
32.5°	4544.5	4506.1	4542.1	4510.9	4383.5	4253.7	4708.0	4840.1	5590.0	5688.5	5301.6
35°	4902.6	4885.8	5039.6	5034.8	4828.1	4700.8	5046.8	5243.9	5938.4	6111.5	5590.0
37.5°	5412.1	5380.9	5556.3	5640.4	5455.4	5265.5	5532.3	5760.6	6262.9	6450.3	5885.6
40°	5936.0	6015.3	6250.8	6390.2	6193.2	5940.8	6125.9	6195.6	6479.2	6671.4	6087.4
42.5°	6599.3	6714.7	6955.0	7075.2	7058.3	6784.4	6729.1	6726.7	6635.4	6608.9	6236.4
45°	7236.2	7192.9	7563.0	7825.0	8036.5	7957.2	7310.7	7238.6	6882.9	6702.7	6274.9
47.5°	7515.0	7500.5	7752.9	8219.1	8940.1	9038.6	8156.6	7877.8	7301.1	7096.8	6484.0
50°	7154.5	7229.0	7478.9	7995.6	9101.1	9853.3	9194.8	8819.9	7788.9	7577.4	6979.0
52.5°	5976.9	6027.3	6265.3	6921.4	8553.2	10334.0	10189.8	9973.5	8685.3	8334.5	7841.8
54°	4914.6	5049.2	5179.0	5837.5	7577.4	10067.2	10735.3	10569.5	9269.3	8964.1	8384.9
55°	4280.2	4359.5	4453.2	5109.3	6902.1	9615.4	10672.8	10687.2	9661.1	9161.2	8750.2
57.5°	3126.6	3181.9	3085.8	3376.6	4739.2	7808.2	9762.0	10151.3	10189.8	9456.8	8973.7
60°	2388.8	2412.9	2304.7	2350.4	2946.4	5359.2	7551.0	8019.6	9192.4	8264.8	7601.5
62.5°	1852.9	1857.7	1855.3	1934.6	2030.7	3153.1	4722.4	5138.1	6337.4	5868.7	5162.2
65°	1365.0	1343.4	1381.9	1622.2	1732.7	1982.7	2487.4	2790.2	3443.9	2907.9	2078.8
67.5°	884.4	891.6	930.1	1206.4	1485.2	1521.3	1530.9	1506.8	1509.2	831.5	521.5
70°	531.1	543.1	531.1	682.5	1062.2	1091.1	997.3	973.3	759.4	197.1	194.7
72.5°	314.8	298.0	266.8	293.2	442.2	528.7	475.8	473.4	298.0	115.4	115.4
75°	132.2	120.2	98.5	88.9	117.8	113.0	113.0	100.9	79.3	76.9	72.1
77.5°	26.4	26.4	19.2	21.6	28.8	33.6	40.9	40.9	48.1	48.1	45.7
80°	0.0	2.4	7.2	14.4	21.6	31.2	36.0	36.0	40.9	40.9	33.6
82.5°	0.0	2.4	7.2	14.4	19.2	28.8	36.0	36.0	40.9	43.3	36.0
85°	0.0	2.4	7.2	12.0	19.2	24.0	24.0	21.6	16.8	14.4	9.6
87.5°	0.0	0.0	2.4	4.8	2.4	4.8	4.8	4.8	4.8	4.8	4.8
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°	4633.5	4633.5	4633.5	4633.5	4633.5	4633.5	4633.5	4633.5	4633.5	4633.5	4633.5
2.5°	4655.1	4652.7	4595.0	4501.3	4479.7	4400.3	4390.7	4342.7	4369.1	4280.2	4270.6
5°	4616.6	4587.8	4518.1	4458.0	4282.6	4157.6	4059.1	3938.9	3869.2	3881.2	3835.6
7.5°	4671.9	4597.4	4474.8	4265.8	4051.9	3833.2	3715.4	3470.3	3381.4	3249.2	3230.0
10°	4614.2	4559.0	4369.1	4023.0	3727.4	3412.6	3136.2	2864.7	2658.0	2569.1	2549.8
12.5°	4609.4	4513.3	4196.1	3811.6	3383.8	2932.0	2530.6	2191.8	1987.5	1872.1	1845.7
15°	4534.9	4419.6	4001.4	3484.7	2893.5	2331.2	1893.8	1566.9	1410.7	1343.4	1362.6
17.5°	4542.1	4369.1	3806.7	3138.6	2410.5	1711.1	1292.9	1124.7	1083.9	1100.7	1100.7
20°	4534.9	4256.2	3571.2	2739.7	1845.7	1187.2	949.3	889.2	915.6	968.5	956.5
22.5°	4496.5	4203.3	3354.9	2319.1	1357.8	879.6	761.8	764.2	805.1	870.0	884.4
25°	4525.3	4085.5	3081.0	1893.8	990.1	701.7	660.9	677.7	721.0	769.0	778.7
27.5°	4503.7	4001.4	2795.0	1470.8	723.4	603.2	600.8	620.0	639.3	675.3	675.3
30°	4527.7	3924.5	2513.8	1093.5	596.0	552.7	543.1	557.6	576.8	584.0	581.6
32.5°	4616.6	3866.8	2189.4	817.1	526.3	504.7	504.7	504.7	502.3	511.9	514.3
35°	4811.3	3876.4	1903.4	632.1	480.6	463.8	456.6	447.0	442.2	447.0	449.4
37.5°	5022.8	3871.6	1607.8	538.3	447.0	432.6	415.8	401.3	398.9	403.7	396.5
40°	5116.5	3917.3	1333.8	483.1	415.8	398.9	372.5	360.5	362.9	367.7	362.9
42.5°	5243.9	3931.7	1156.0	439.8	386.9	360.5	343.7	329.2	326.8	334.1	331.6
45°	5241.5	3850.0	968.5	415.8	360.5	331.6	310.0	298.0	298.0	302.8	305.2
47.5°	5395.3	3838.0	831.5	394.1	341.3	312.4	286.0	276.4	274.0	274.0	269.2
50°	5753.4	4006.2	725.8	370.1	317.2	290.8	269.2	257.1	247.5	242.7	240.3
52.5°	6452.7	4530.1	644.1	341.3	290.8	269.2	249.9	240.3	228.3	216.3	213.9
54°	7130.4	5070.9	639.3	317.2	269.2	254.7	237.9	233.1	218.7	201.9	197.1
55°	7435.6	5385.7	656.1	298.0	254.7	245.1	230.7	225.9	211.5	192.3	189.9
57.5°	7688.0	5508.2	646.5	247.5	230.7	228.3	216.3	209.1	192.3	165.8	161.0
60°	6188.4	4164.8	463.8	218.7	211.5	206.7	197.1	192.3	170.6	141.8	139.4
62.5°	3910.1	2396.0	295.6	192.3	185.1	177.8	165.8	161.0	141.8	113.0	105.7
65°	1665.5	992.5	199.5	170.6	158.6	146.6	137.0	129.8	113.0	84.1	81.7
67.5°	432.6	353.3	165.8	149.0	132.2	115.4	108.1	96.1	76.9	57.7	55.3
70°	194.7	177.8	139.4	125.0	105.7	88.9	79.3	67.3	50.5	38.5	36.0
72.5°	115.4	113.0	105.7	93.7	79.3	67.3	57.7	45.7	33.6	21.6	21.6
75°	72.1	69.7	72.1	64.9	55.3	50.5	43.3	31.2	19.2	9.6	9.6
77.5°	43.3	43.3	43.3	40.9	38.5	38.5	31.2	19.2	9.6	2.4	2.4
80°	33.6	33.6	36.0	33.6	33.6	33.6	26.4	14.4	4.8	0.0	0.0
82.5°	33.6	36.0	40.9	38.5	33.6	28.8	24.0	14.4	4.8	0.0	0.0
85°	9.6	7.2	12.0	16.8	24.0	21.6	16.8	12.0	4.8	0.0	0.0
87.5°	4.8	4.8	4.8	4.8	2.4	2.4	2.4	2.4	2.4	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)