

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: P454113

Luminaire Tested: **GALN-SA5B-722-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-722-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17328 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

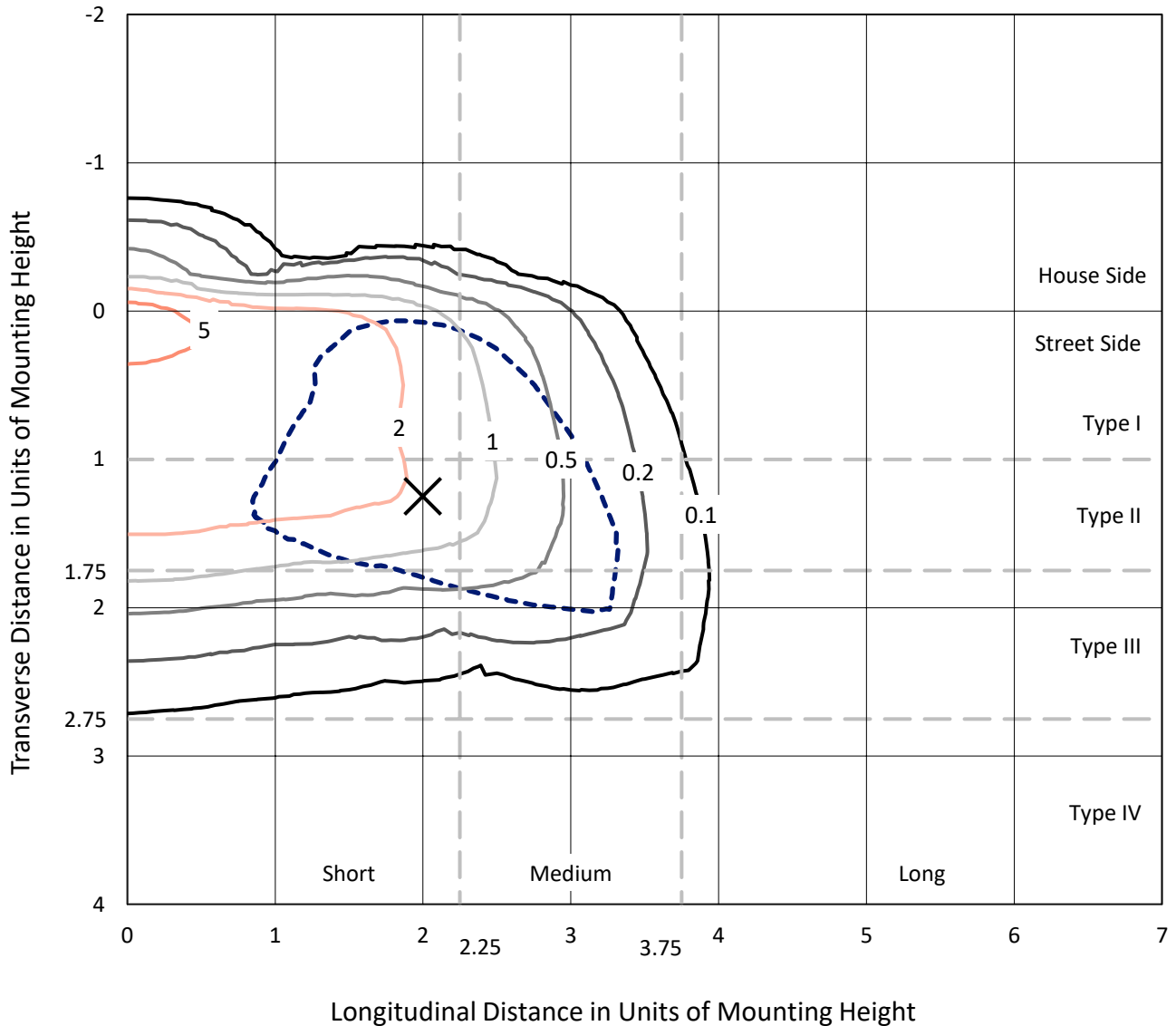
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

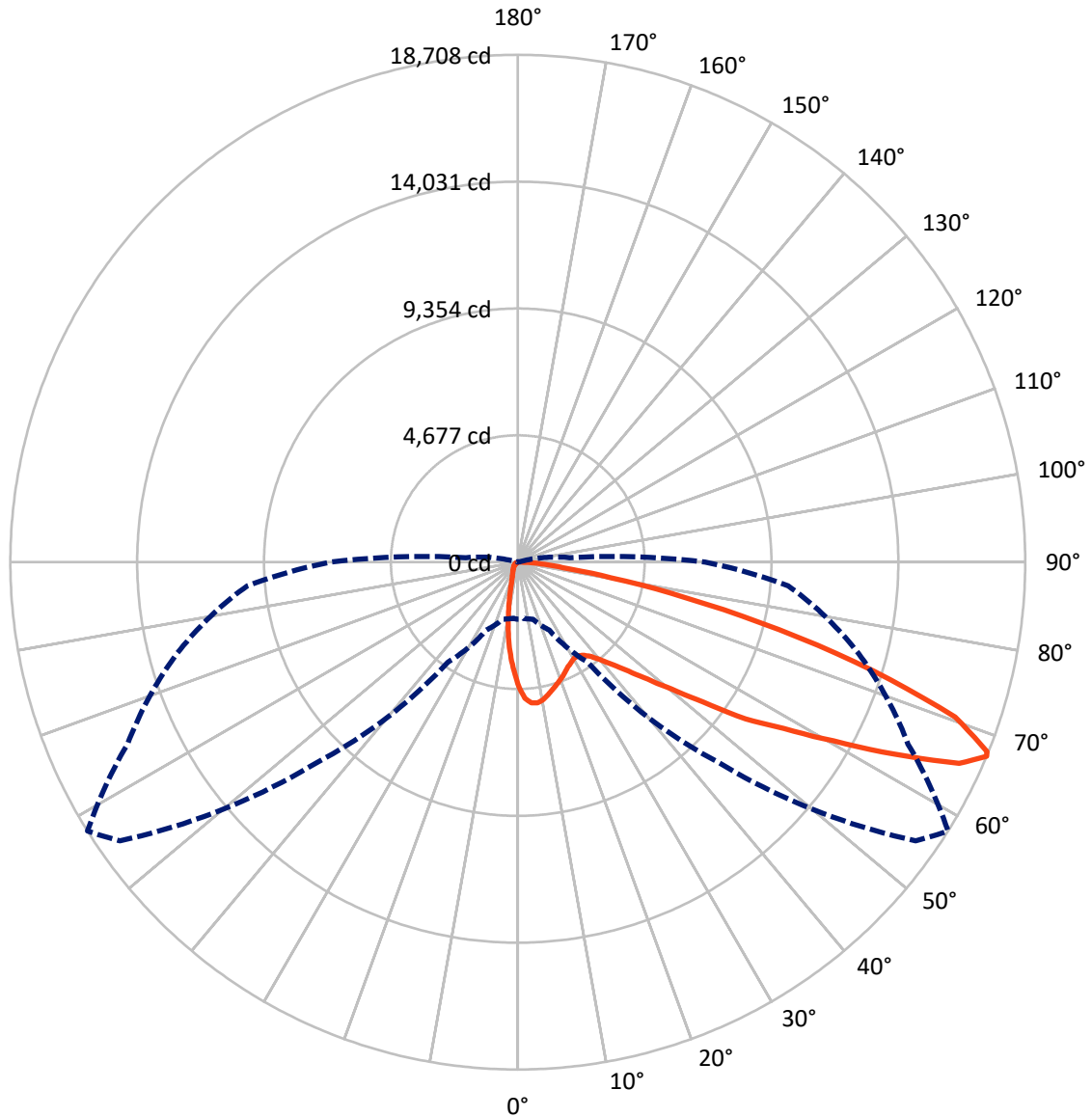
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1250.5	0.0	1250.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16077.5	0.0	16077.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	17328.0	0.0	17328.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.7	2.2
10°-20°	805.1	4.6
20°-30°	1090.9	6.3
30°-40°	1513.0	8.7
40°-50°	2413.1	13.9
50°-60°	4171.2	24.1
60°-70°	4764.8	27.5
70°-80°	1986.5	11.5
80°-90°	210.6	1.2
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°	17328.0	100.0
0°-180°	17328.0	100.0



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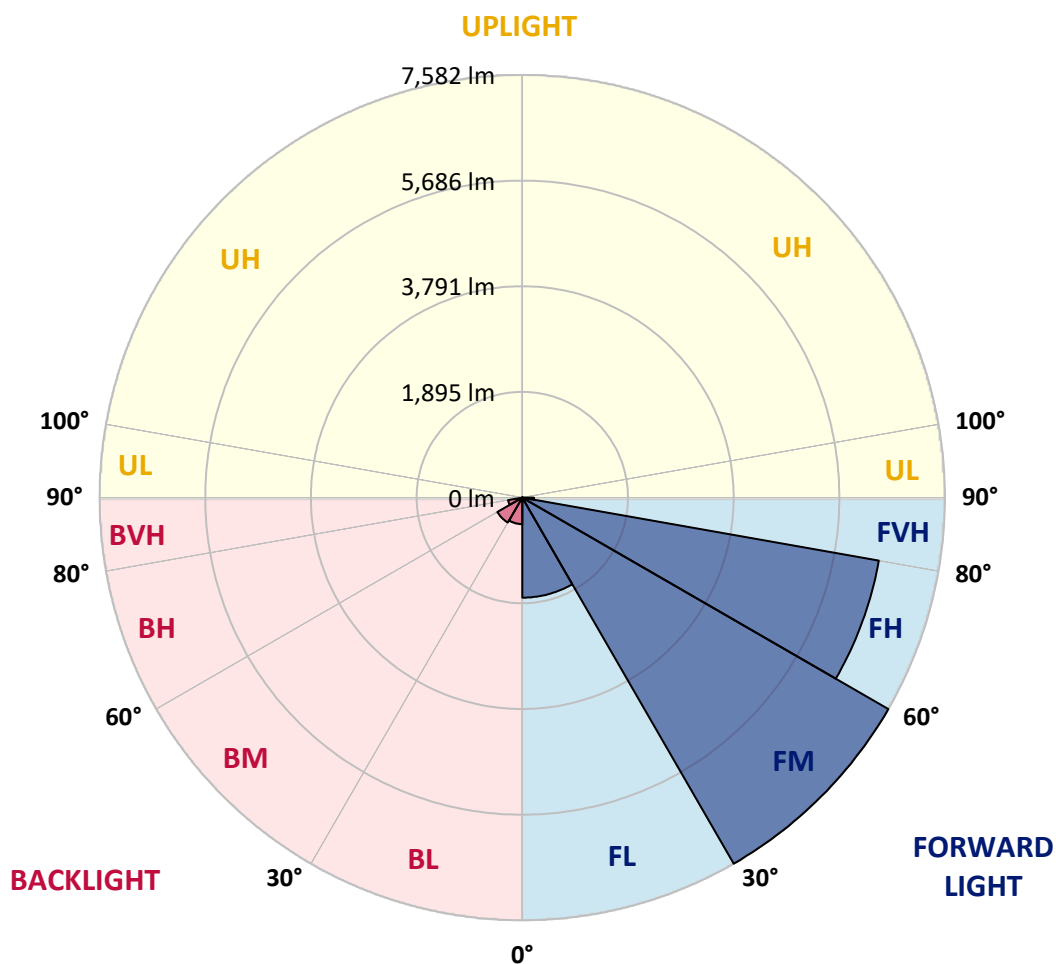
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1793.9	10.4			
FM (30°-60°)	7581.7	43.8			
FH (60°-80°)	6492.8	37.5			G3/7500
FVH (80°-90°)	209.1	1.2			G2/225
BL (0°-30°)	474.8	2.7	B1/500		
BM (30°-60°)	515.6	3.0	B1/1000		
BH (60°-80°)	258.5	1.5	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5
2.5°	5331.1	5339.2	5309.1	5284.8	5222.2	5155.1	5065.9	5018.5	4937.4	4797.3	4642.1
5°	5456.1	5466.6	5461.9	5456.1	5431.8	5367.0	5253.5	5211.8	5092.6	4864.4	4584.2
7.5°	5178.2	5216.5	5221.1	5266.2	5309.1	5314.9	5272.0	5240.8	5130.8	4863.3	4481.2
10°	4810.0	4835.5	4872.6	4924.7	5027.7	5113.4	5155.1	5150.5	5086.8	4827.4	4360.8
12.5°	4438.3	4452.2	4509.0	4598.1	4724.3	4870.2	4981.4	5003.4	5004.6	4784.6	4260.0
15°	4118.7	4113.0	4157.0	4260.0	4437.2	4620.1	4819.3	4854.0	4909.6	4742.9	4166.2
17.5°	3845.5	3875.6	3882.5	3996.0	4159.3	4396.6	4650.2	4711.6	4822.8	4707.0	4088.6
20°	3676.4	3692.6	3707.7	3771.4	3918.4	4168.5	4491.6	4576.1	4741.7	4674.5	4001.8
22.5°	3626.6	3637.0	3624.3	3644.0	3748.2	3970.5	4319.1	4431.4	4664.1	4644.4	3931.2
25°	3664.8	3675.3	3645.2	3622.0	3657.9	3809.6	4152.3	4289.0	4601.6	4638.7	3877.9
27.5°	3757.5	3777.2	3735.5	3693.8	3672.9	3722.7	4021.5	4180.1	4558.8	4666.4	3853.6
30°	3902.2	3913.8	3882.5	3831.6	3784.1	3734.3	3953.2	4104.8	4547.2	4731.3	3851.3
32.5°	4059.7	4084.0	4066.6	4033.1	3971.7	3853.6	3972.8	4107.2	4575.0	4825.1	3880.2
35°	4254.2	4282.0	4298.2	4291.3	4212.5	4065.5	4097.9	4211.4	4649.1	4997.6	3959.0
37.5°	4445.3	4469.6	4561.1	4592.3	4522.9	4383.9	4341.1	4416.3	4812.3	5223.4	4101.4
40°	4664.1	4696.5	4825.1	4944.3	4910.8	4764.9	4686.1	4748.7	5062.5	5563.8	4371.2
42.5°	4873.7	4931.6	5127.3	5338.0	5369.3	5206.0	5153.9	5174.8	5433.0	6053.6	4747.5
45°	5171.3	5225.7	5478.1	5764.2	5911.2	5783.8	5730.6	5727.1	5941.3	6742.6	5357.7
47.5°	5600.9	5649.5	5947.1	6229.6	6491.3	6508.7	6408.0	6442.7	6580.5	7548.5	6105.7
50°	6127.7	6242.4	6438.1	6732.2	7081.9	7364.4	7395.7	7349.4	7467.5	8481.8	7004.3
52.5°	6893.1	6937.1	7116.6	7358.6	7768.5	8247.9	8619.6	8555.9	8518.9	9371.1	7912.1
55°	7464.0	7523.0	7802.1	8134.4	8735.4	9367.6	10173.5	10195.5	9727.7	10225.6	8800.2
57.5°	7291.5	7381.8	7804.4	8472.5	9793.7	10949.4	11549.2	11564.2	10846.3	11055.9	9803.0
60°	6405.6	6448.5	7054.1	7945.7	9884.1	12663.1	13500.3	13378.7	11984.5	11984.5	10688.8
62.5°	4542.5	4609.7	5100.7	6412.6	8926.5	13258.3	15837.0	15585.7	13552.4	12872.7	11216.8
65°	2902.9	2838.1	3163.5	4048.1	6650.0	12379.4	17871.4	17886.5	15027.6	13228.2	10928.5
67°	2102.8	2077.3	2171.1	2767.4	4509.0	10406.3	17914.3	18707.5	15875.2	13003.5	10006.8
67.5°	1923.3	1943.0	2011.3	2496.5	4096.7	9469.5	17719.7	18658.8	16066.2	12868.0	9673.3
70°	1457.8	1424.2	1498.4	1765.8	2456.0	5973.7	15242.9	17113.0	15828.9	11523.7	7729.2
72.5°	1072.2	1068.8	1171.8	1443.9	1890.9	3182.0	11442.6	13721.4	12931.7	8774.8	4866.8
75°	723.7	756.1	920.6	1206.6	1713.7	2063.4	7800.9	9954.7	8977.4	4982.6	1989.3
77.5°	412.2	414.5	592.9	969.2	1538.9	1660.5	4622.4	6342.0	4752.1	1657.0	590.5
80°	178.3	195.7	294.1	704.0	1276.0	1470.6	2650.5	3485.4	1922.2	350.9	191.1
82.5°	66.0	77.6	129.7	433.1	931.0	1211.2	1601.4	1663.9	651.9	123.9	119.3
85°	0.0	2.3	47.5	202.6	485.2	540.8	1069.9	986.6	288.3	59.1	77.6
87.5°	0.0	0.0	0.0	20.8	63.7	201.5	332.3	370.5	69.5	20.8	18.5
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°	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5	4593.5
2.5°	4558.8	4483.5	4294.7	4106.0	3965.9	3848.9	3672.9	3576.8	3525.9	3450.6	3455.3
5°	4444.1	4291.3	3959.0	3615.0	3337.1	3066.2	2742.0	2611.1	2501.1	2438.6	2396.9
7.5°	4273.9	4048.1	3556.0	3097.5	2670.2	2196.6	1841.1	1603.7	1443.9	1384.9	1328.1
10°	4087.5	3787.6	3147.2	2511.5	1918.7	1430.0	1129.0	911.3	833.7	761.9	768.9
12.5°	3914.9	3550.2	2772.1	1982.4	1344.4	909.0	708.7	619.5	594.0	585.9	585.9
15°	3773.7	3323.2	2369.1	1490.3	921.7	653.1	567.4	543.1	533.8	531.5	531.5
17.5°	3623.2	3107.9	2005.5	1101.2	670.4	546.5	517.6	501.4	497.9	495.6	495.6
20°	3488.8	2891.3	1660.5	819.8	541.9	492.1	473.6	463.2	459.7	457.4	458.5
22.5°	3361.5	2699.1	1336.2	619.5	477.1	448.1	429.6	419.2	412.2	406.4	407.6
25°	3248.0	2513.9	1074.6	507.2	429.6	404.1	385.6	370.5	355.5	348.5	347.4
27.5°	3168.1	2351.7	837.2	434.2	386.7	359.0	335.8	317.3	297.6	287.2	284.8
30°	3102.1	2187.3	662.3	383.3	343.9	317.3	288.3	261.7	240.8	230.4	225.8
32.5°	3059.2	2031.0	522.2	341.6	308.0	275.6	243.2	216.5	193.4	183.0	180.6
35°	3052.3	1900.2	427.3	306.9	275.6	240.8	207.3	178.3	158.6	148.2	145.9
37.5°	3102.1	1799.4	357.8	279.1	249.0	210.7	173.7	147.1	129.7	121.6	120.4
40°	3235.2	1735.7	310.3	255.9	224.6	183.0	148.2	125.1	107.7	99.6	99.6
42.5°	3488.8	1738.0	279.1	233.9	200.3	156.3	126.2	104.2	89.2	82.2	79.9
45°	3884.8	1816.8	252.4	211.9	177.2	135.5	107.7	85.7	70.6	64.8	64.8
47.5°	4415.2	1973.1	229.3	189.9	156.3	115.8	91.5	69.5	56.7	50.9	50.9
50°	5108.8	2224.4	209.6	171.4	139.0	99.6	74.1	56.7	44.0	39.4	38.2
52.5°	5833.6	2534.7	186.4	155.2	119.3	84.5	60.2	44.0	33.6	30.1	28.9
55°	6633.8	2838.1	164.4	139.0	97.3	70.6	47.5	34.7	24.3	20.8	20.8
57.5°	7440.8	3135.7	137.8	115.8	76.4	52.1	37.1	25.5	16.2	12.7	12.7
60°	8124.0	3231.8	117.0	93.8	57.9	37.1	26.6	16.2	9.3	5.8	5.8
62.5°	8217.8	2907.6	98.4	71.8	41.7	25.5	13.9	9.3	3.5	2.3	2.3
65°	7708.3	2362.2	82.2	54.4	27.8	12.7	5.8	3.5	1.2	0.0	0.0
67°	6907.0	1915.2	67.2	40.5	19.7	8.1	3.5	1.2	0.0	0.0	0.0
67.5°	6702.1	1826.0	64.8	38.2	17.4	6.9	2.3	1.2	0.0	0.0	0.0
70°	5259.3	1367.5	46.3	23.2	10.4	4.6	0.0	0.0	0.0	0.0	0.0
72.5°	3268.8	773.5	33.6	13.9	6.9	2.3	0.0	0.0	0.0	0.0	0.0
75°	1235.5	271.0	23.2	9.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	384.4	103.1	13.9	6.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	129.7	39.4	9.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	79.9	16.2	5.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	49.8	6.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	2.3	1.2	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)