

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: P457622

Luminaire Tested: **GALN-SA9A-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457622
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-SA9A-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA 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: 28681 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

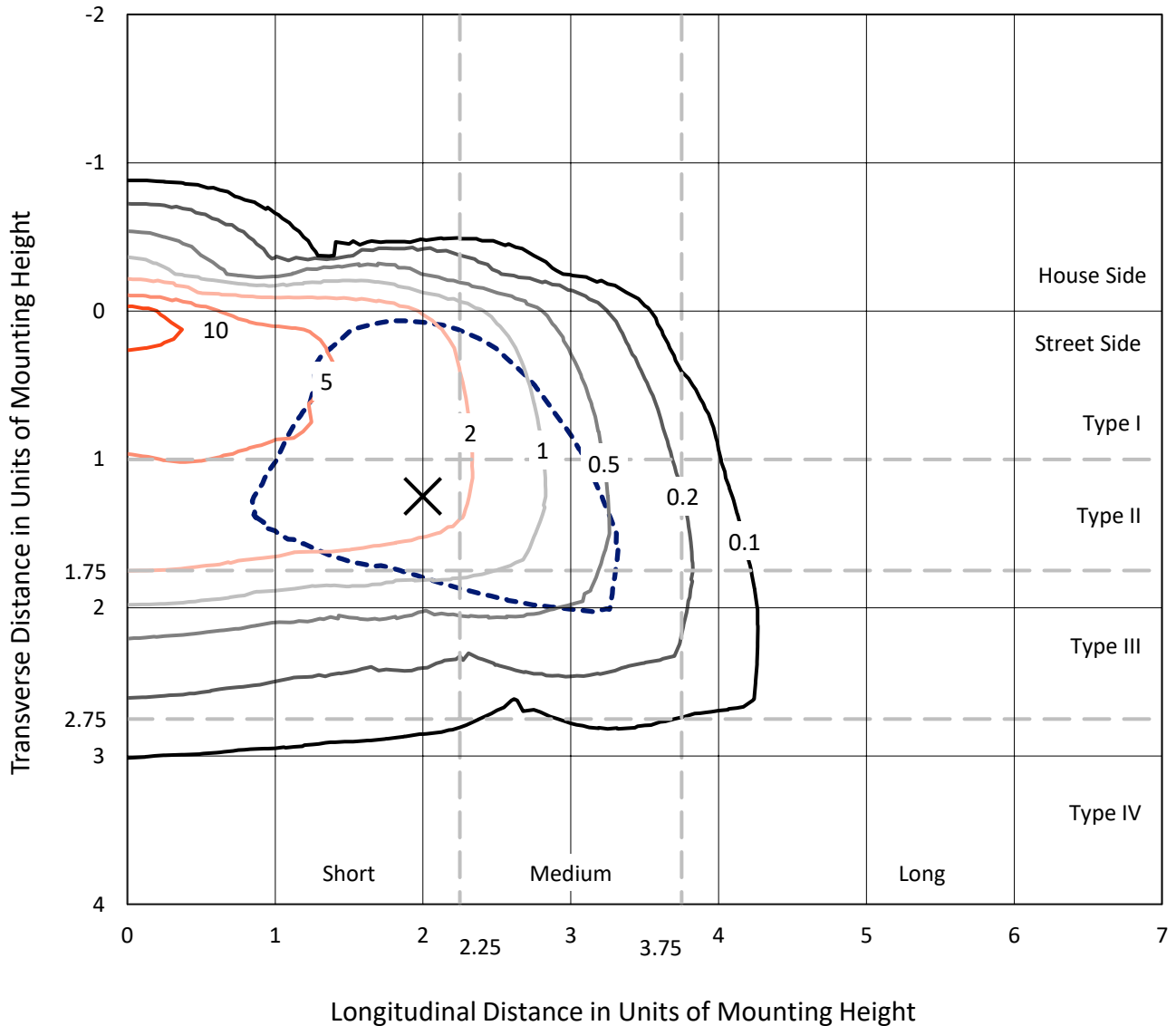
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457622
 CATALOG NUMBER: GALN-SA9A-727-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

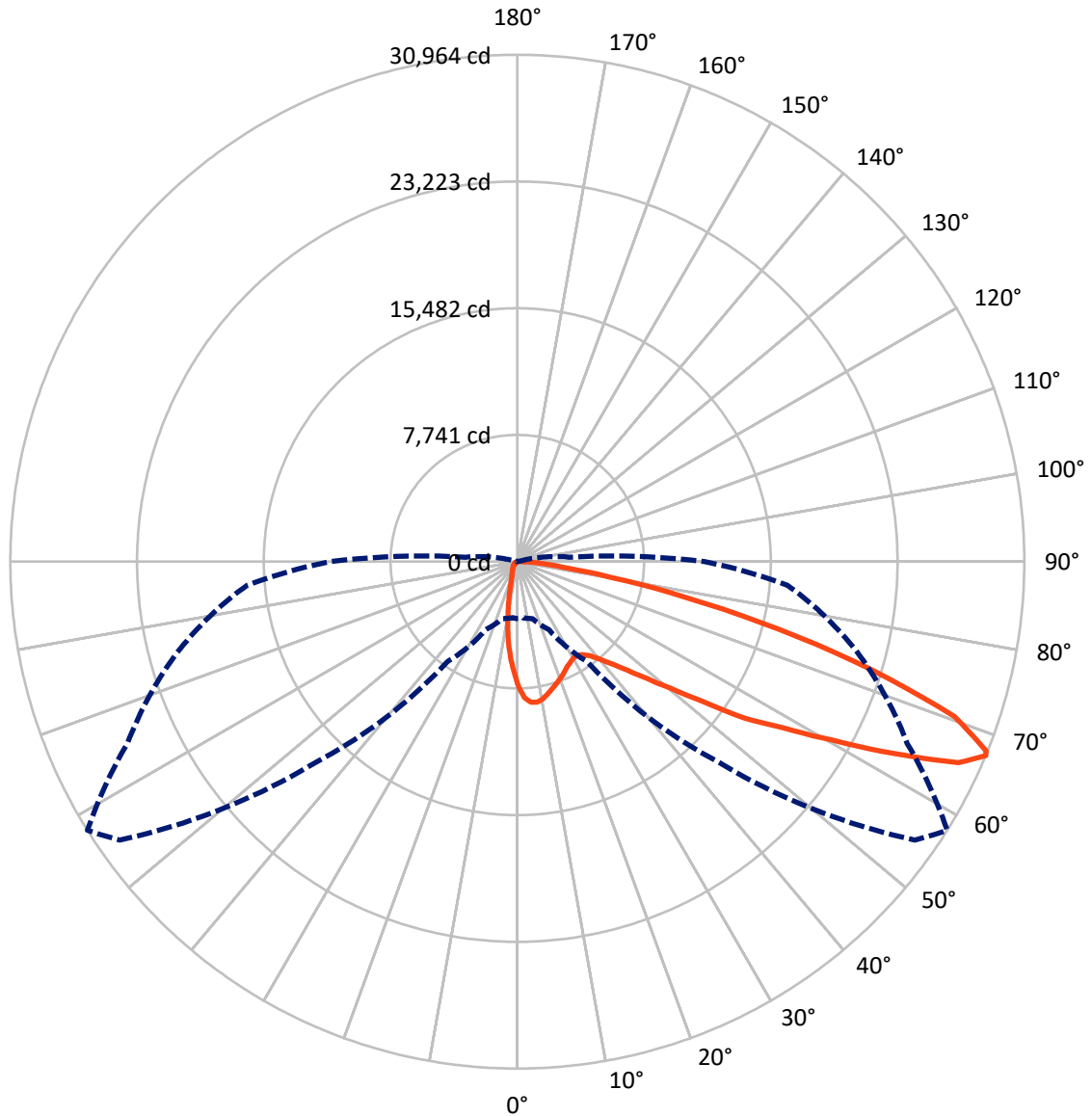
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type III - Short - N/A

REPORT NUMBER: P457622
CATALOG NUMBER: GALN-SA9A-727-U-SL3-HSS

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	2069.8	0.0	2069.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	26611.2	0.0	26611.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	28681.0	0.0	28681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.0	2.2
10°-20°	1332.5	4.6
20°-30°	1805.6	6.3
30°-40°	2504.3	8.7
40°-50°	3994.1	13.9
50°-60°	6904.1	24.1
60°-70°	7886.7	27.5
70°-80°	3288.0	11.5
80°-90°	348.6	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°	28681.0	100.0
0°-180°	28681.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457622

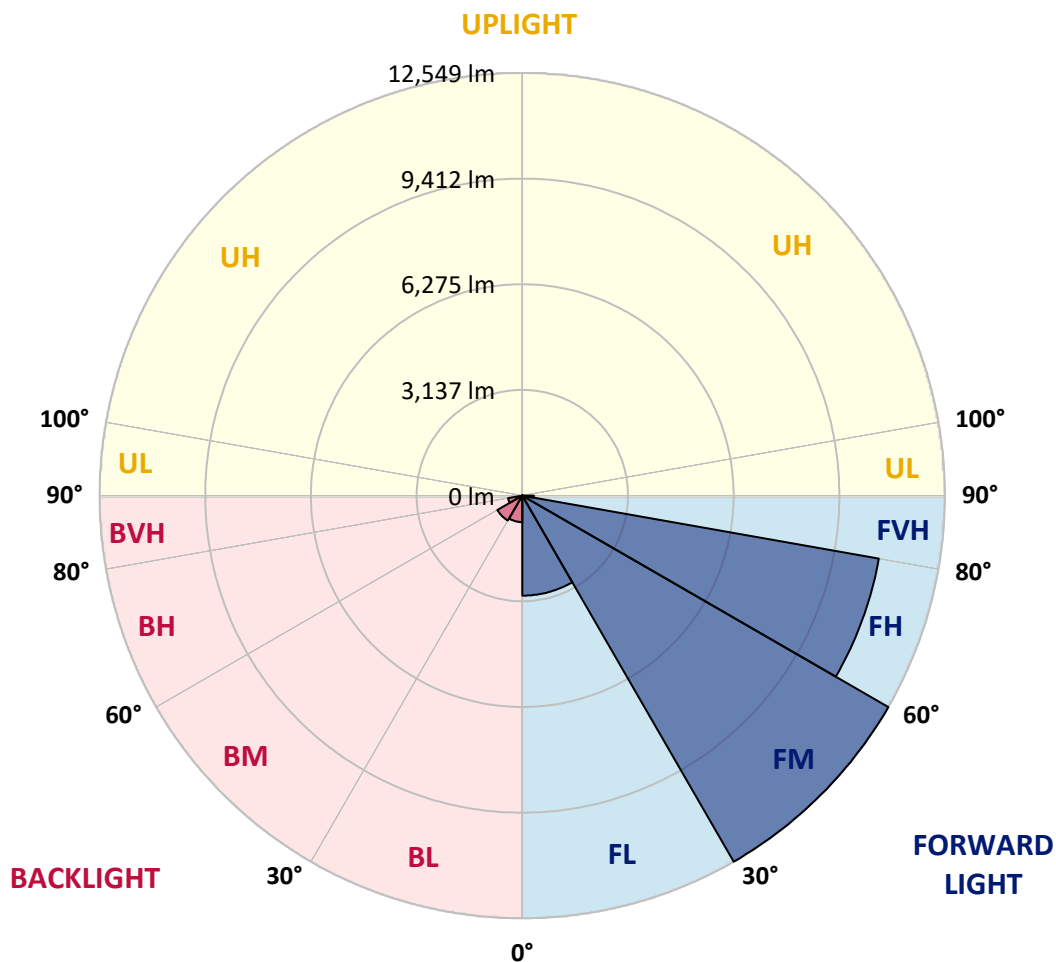
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2969.2	10.4			
FM (30°-60°)	12549.1	43.8			
FH (60°-80°)	10746.8	37.5			G4/12000
FVH (80°-90°)	346.1	1.2			G3/500
BL (0°-30°)	785.9	2.7	B2/1000		
BM (30°-60°)	853.4	3.0	B1/1000		
BH (60°-80°)	427.9	1.5	B1/500		G1/500
BVH (80°-90°)	2.5	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7603.1	7603.1	7603.1	7603.1	7603.1	7603.1	7603.1	7603.1	7603.1	7603.1	7603.1
2.5°	8823.9	8837.3	8787.5	8747.3	8643.8	8532.6	8385.0	8306.5	8172.3	7940.4	7683.6
5°	9030.9	9048.2	9040.5	9030.9	8990.7	8883.3	8695.5	8626.5	8429.1	8051.5	7587.7
7.5°	8570.9	8634.2	8641.9	8716.6	8787.5	8797.1	8726.2	8674.4	8492.4	8049.6	7417.2
10°	7961.5	8003.6	8065.0	8151.2	8321.8	8463.6	8532.6	8524.9	8419.5	7990.2	7217.8
12.5°	7346.2	7369.2	7463.2	7610.7	7819.6	8061.1	8245.1	8281.5	8283.5	7919.3	7051.1
15°	6817.3	6807.7	6880.5	7051.1	7344.3	7647.2	7976.8	8034.3	8126.3	7850.3	6895.9
17.5°	6365.0	6414.8	6426.3	6614.1	6884.4	7277.3	7697.0	7798.6	7982.6	7790.9	6767.4
20°	6085.1	6112.0	6136.9	6242.3	6485.7	6899.7	7434.4	7574.3	7848.4	7737.2	6623.7
22.5°	6002.7	6020.0	5998.9	6031.5	6204.0	6572.0	7148.8	7334.7	7720.0	7687.4	6506.8
25°	6066.0	6083.2	6033.4	5995.1	6054.5	6305.5	6872.9	7099.0	7616.5	7677.8	6418.6
27.5°	6219.3	6251.9	6182.9	6113.9	6079.4	6161.8	6656.3	6918.9	7545.6	7723.8	6378.4
30°	6458.9	6478.0	6426.3	6342.0	6263.4	6181.0	6543.2	6794.3	7526.4	7831.1	6374.5
32.5°	6719.5	6759.8	6731.0	6675.4	6573.9	6378.4	6575.8	6798.1	7572.4	7986.4	6422.5
35°	7041.5	7087.5	7114.3	7102.8	6972.5	6729.1	6782.8	6970.6	7695.1	8272.0	6552.8
37.5°	7357.7	7398.0	7549.4	7601.2	7486.2	7256.2	7185.3	7309.8	7965.3	8645.7	6788.5
40°	7720.0	7773.6	7986.4	8183.8	8128.2	7886.7	7756.4	7859.9	8379.3	9209.2	7235.1
42.5°	8066.9	8162.7	8486.6	8835.4	8887.2	8616.9	8530.7	8565.2	8992.6	10019.9	7858.0
45°	8559.4	8649.5	9067.3	9540.7	9784.1	9573.3	9485.2	9479.4	9834.0	11160.2	8868.0
47.5°	9270.5	9351.0	9843.6	10311.2	10744.3	10773.1	10606.3	10663.8	10891.9	12494.2	10106.1
50°	10142.5	10332.3	10656.2	11143.0	11721.8	12189.4	12241.2	12164.5	12360.0	14038.9	11593.4
52.5°	11409.4	11482.2	11779.3	12179.9	12858.3	13651.8	14267.0	14161.6	14100.3	15510.9	13096.0
55°	12354.3	12452.0	12913.9	13464.0	14458.7	15505.1	16839.1	16875.5	16101.2	16925.3	14566.0
57.5°	12068.7	12218.2	12917.7	14023.6	16210.4	18123.2	19116.0	19140.9	17952.6	18299.5	16225.8
60°	10602.5	10673.4	11675.8	13151.6	16359.9	20959.7	22345.4	22144.2	19836.6	19836.6	17691.9
62.5°	7518.7	7629.9	8442.5	10614.0	14774.9	21944.8	26213.1	25797.2	22431.6	21306.6	18565.9
65°	4804.9	4697.5	5236.1	6700.4	11006.9	20490.1	29580.5	29605.4	24873.4	21895.0	18088.7
67°	3480.5	3438.3	3593.6	4580.6	7463.2	17224.3	29651.4	30964.3	26276.3	21523.2	16563.1
67.5°	3183.4	3216.0	3329.1	4132.1	6780.9	15673.8	29329.4	30883.8	26592.5	21298.9	16011.1
70°	2413.0	2357.4	2480.1	2922.8	4065.1	9887.6	25229.8	28325.1	26199.6	19073.8	12793.2
72.5°	1774.8	1769.0	1939.6	2390.0	3129.8	5266.8	18939.6	22711.5	21404.4	14523.8	8055.4
75°	1197.9	1251.5	1523.7	1997.1	2836.5	3415.3	12912.0	16476.8	14859.2	8247.0	3292.7
77.5°	682.3	686.1	981.3	1604.2	2547.1	2748.4	7651.0	10497.1	7865.6	2742.6	977.5
80°	295.2	323.9	486.8	1165.3	2112.1	2434.1	4387.0	5768.9	3181.5	580.7	316.2
82.5°	109.2	128.4	214.7	716.8	1540.9	2004.7	2650.6	2754.1	1079.0	205.1	197.4
85°	0.0	3.8	78.6	335.4	803.0	895.0	1770.9	1632.9	477.2	97.7	128.4
87.5°	0.0	0.0	0.0	34.5	105.4	333.5	550.1	613.3	115.0	34.5	30.7
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°	7603.1	7603.1	7603.1	7603.1	7603.1	7603.1	7603.1	7603.1	7603.1	7603.1	7603.1
2.5°	7545.6	7421.0	7108.6	6796.2	6564.3	6370.7	6079.4	5920.3	5836.0	5711.4	5719.1
5°	7355.8	7102.8	6552.8	5983.6	5523.6	5075.1	4538.5	4321.9	4139.8	4036.3	3967.3
7.5°	7074.1	6700.4	5885.8	5126.8	4419.6	3635.8	3047.4	2654.5	2390.0	2292.2	2198.3
10°	6765.5	6269.1	5209.3	4157.1	3175.8	2367.0	1868.7	1508.3	1379.9	1261.1	1272.6
12.5°	6480.0	5876.2	4588.3	3281.2	2225.1	1504.5	1172.9	1025.4	983.2	969.8	969.8
15°	6246.1	5500.6	3921.3	2466.6	1525.6	1081.0	939.1	898.9	883.5	879.7	879.7
17.5°	5997.0	5144.1	3319.5	1822.7	1109.7	904.6	856.7	829.9	824.1	820.3	820.3
20°	5774.7	4785.7	2748.4	1356.9	897.0	814.5	783.9	766.6	760.9	757.0	759.0
22.5°	5563.8	4467.5	2211.7	1025.4	789.6	741.7	711.1	693.8	682.3	672.7	674.6
25°	5376.0	4160.9	1778.6	839.5	711.1	668.9	638.2	613.3	588.4	576.9	575.0
27.5°	5243.8	3892.6	1385.7	718.7	640.1	594.1	555.8	525.1	492.6	475.3	471.5
30°	5134.5	3620.4	1096.3	634.4	569.2	525.1	477.2	433.1	398.6	381.4	373.7
32.5°	5063.6	3361.7	864.4	565.4	509.8	456.1	402.5	358.4	320.1	302.8	299.0
35°	5052.1	3145.1	707.2	507.9	456.1	398.6	343.1	295.2	262.6	245.3	241.5
37.5°	5134.5	2978.4	592.2	461.9	412.1	348.8	287.5	243.4	214.7	201.2	199.3
40°	5354.9	2873.0	513.6	423.6	371.8	302.8	245.3	207.0	178.2	164.8	164.8
42.5°	5774.7	2876.8	461.9	387.1	331.6	258.7	208.9	172.5	147.6	136.1	132.2
45°	6430.1	3007.1	417.8	350.7	293.2	224.2	178.2	141.8	116.9	107.3	107.3
47.5°	7307.9	3265.9	379.5	314.3	258.7	191.7	151.4	115.0	93.9	84.3	84.3
50°	8455.9	3681.7	346.9	283.7	230.0	164.8	122.7	93.9	72.8	65.2	63.2
52.5°	9655.7	4195.4	308.6	256.8	197.4	139.9	99.7	72.8	55.6	49.8	47.9
55°	10980.1	4697.5	272.2	230.0	161.0	116.9	78.6	57.5	40.2	34.5	34.5
57.5°	12315.9	5190.1	228.1	191.7	126.5	86.2	61.3	42.2	26.8	21.1	21.1
60°	13446.7	5349.2	193.6	155.2	95.8	61.3	44.1	26.8	15.3	9.6	9.6
62.5°	13602.0	4812.5	162.9	118.8	69.0	42.2	23.0	15.3	5.7	3.8	3.8
65°	12758.7	3909.8	136.1	90.1	46.0	21.1	9.6	5.7	1.9	0.0	0.0
67°	11432.4	3170.0	111.2	67.1	32.6	13.4	5.7	1.9	0.0	0.0	0.0
67.5°	11093.2	3022.4	107.3	63.2	28.7	11.5	3.8	1.9	0.0	0.0	0.0
70°	8705.1	2263.5	76.7	38.3	17.2	7.7	0.0	0.0	0.0	0.0	0.0
72.5°	5410.5	1280.3	55.6	23.0	11.5	3.8	0.0	0.0	0.0	0.0	0.0
75°	2045.0	448.5	38.3	15.3	7.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	636.3	170.6	23.0	11.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	214.7	65.2	15.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	132.2	26.8	9.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	82.4	11.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.3	3.8	1.9	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)