

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: P532365

Luminaire Tested: **GALN-SA7D-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532365
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-SA7D-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA 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: 26302 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

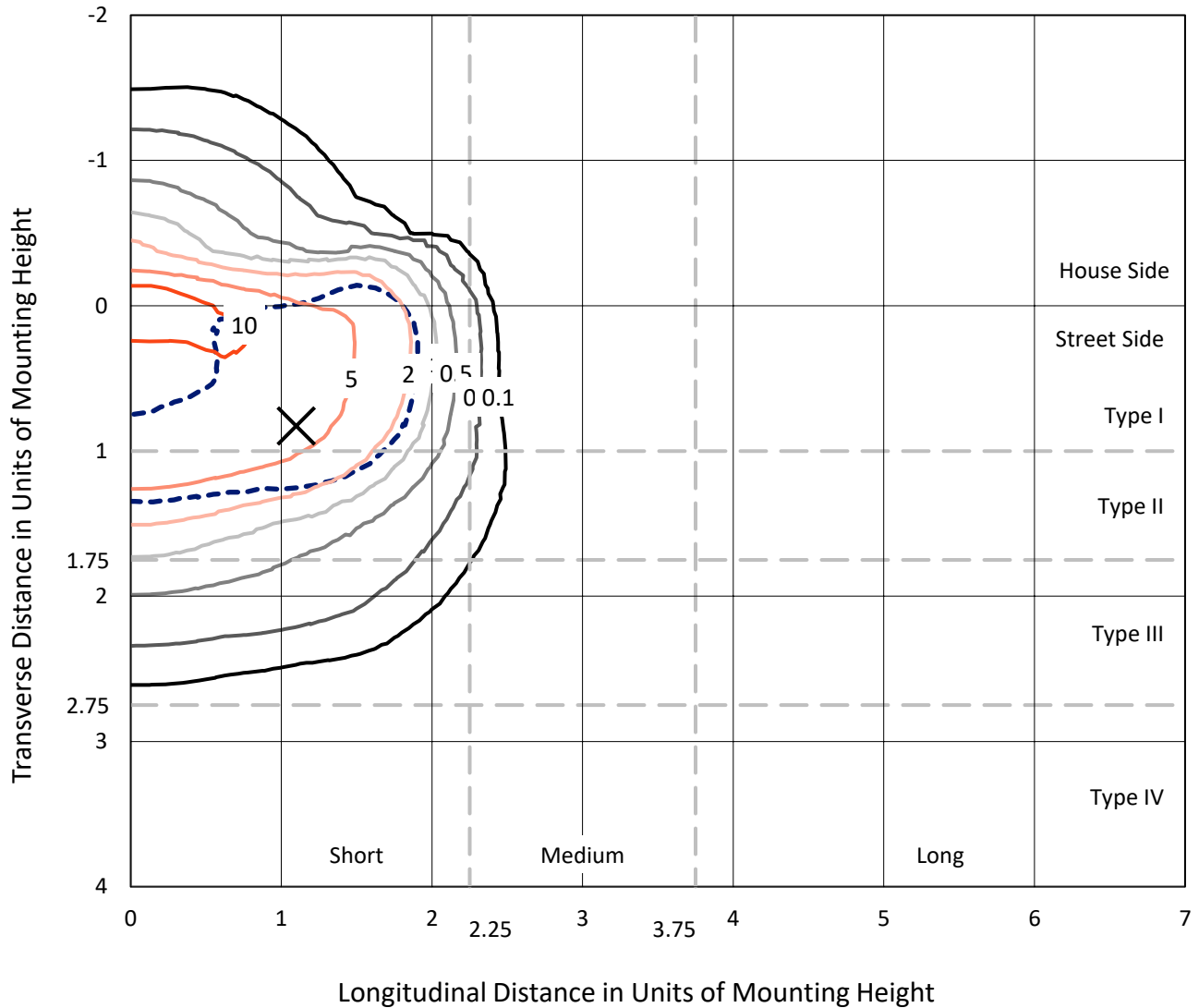
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

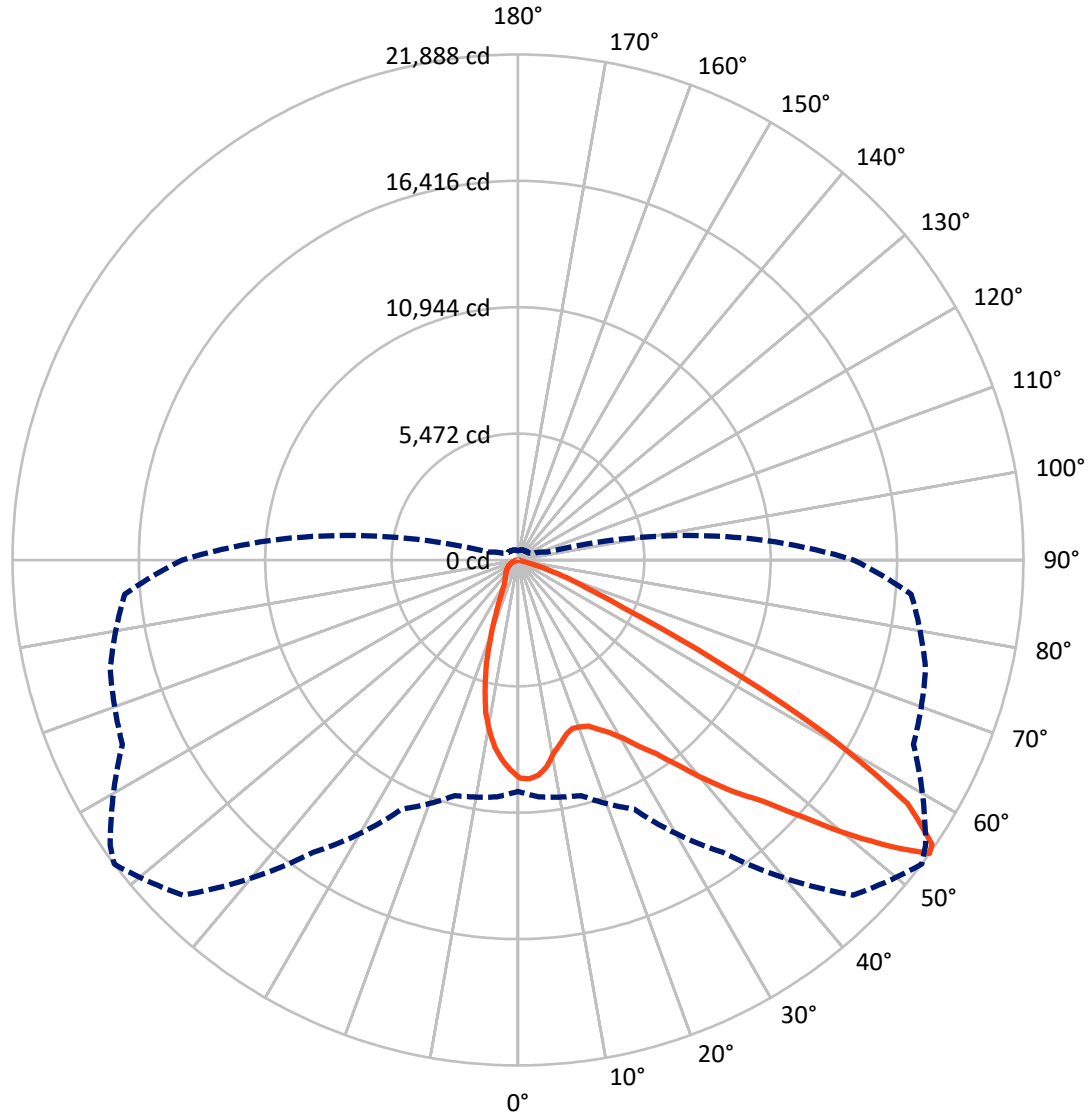
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4351.7	0.0	4351.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	21950.2	0.0	21950.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	26302.0	0.0	26302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	810.5	3.1
10°-20°	1858.3	7.1
20°-30°	2641.1	10.0
30°-40°	4075.9	15.5
40°-50°	6390.6	24.3
50°-60°	7423.6	28.2
60°-70°	2805.1	10.7
70°-80°	266.7	1.0
80°-90°	30.0	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°	26302.0	100.0
0°-180°	26302.0	100.0

Coefficient of Utilization

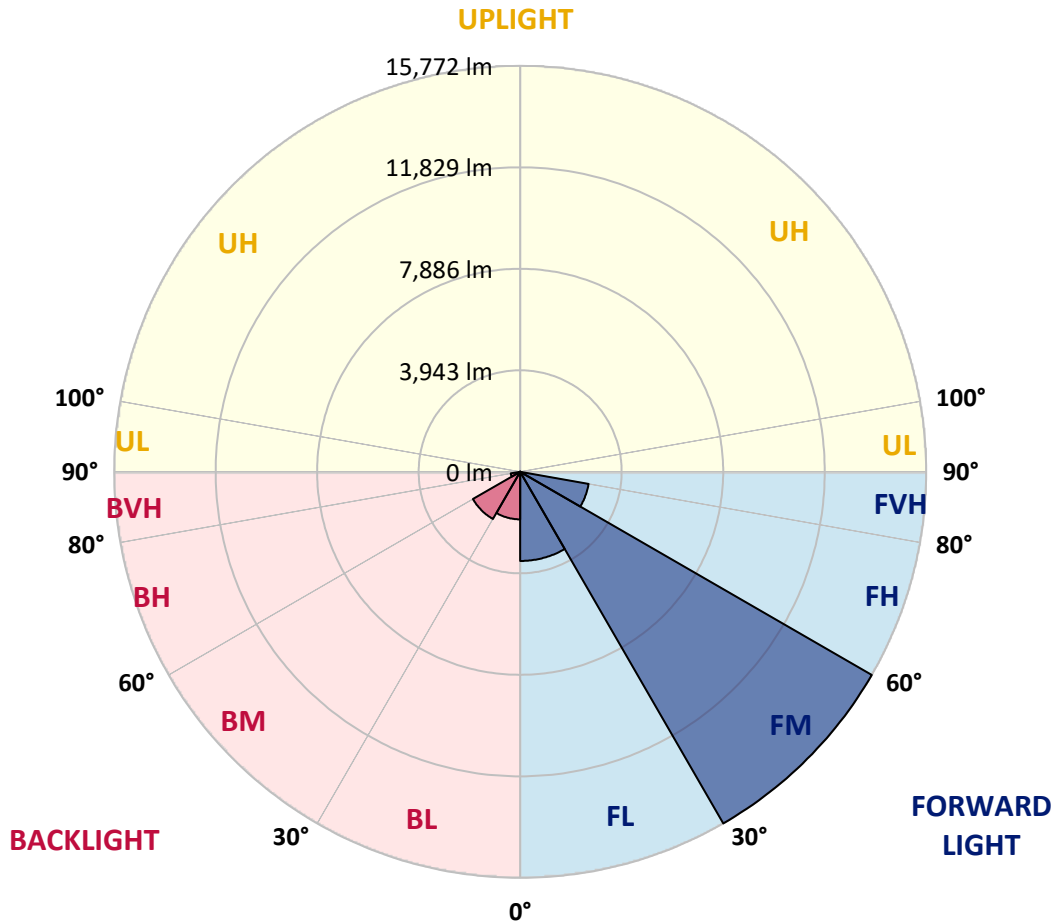


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3463.3	13.2			
FM (30°-60°)	15772.5	60.0			
FH (60°-80°)	2699.0	10.3			G2/5000
FVH (80°-90°)	15.5	0.1			G1/100
BL (0°-30°)	1846.7	7.0	B3/2500		
BM (30°-60°)	2117.7	8.1	B2/2500		
BH (60°-80°)	372.8	1.4	B1/500		G1/500
BVH (80°-90°)	14.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9447.2	9447.2	9447.2	9447.2	9447.2	9447.2	9447.2	9447.2	9447.2	9447.2	9447.2
2.5°	9398.2	9314.9	9398.2	9408.0	9466.8	9520.7	9486.4	9564.8	9520.7	9471.7	9457.0
5°	8638.7	8751.4	8756.3	8932.7	8893.5	9216.9	9359.0	9319.8	9559.9	9545.2	9510.9
7.5°	7957.6	7913.5	7972.3	8178.1	8437.8	8810.2	9016.0	9011.1	9354.1	9599.1	9574.6
10°	7325.5	7320.6	7443.1	7604.8	7825.3	8217.3	8501.5	8643.6	9177.7	9550.1	9604.0
12.5°	6899.2	6879.6	7011.9	7144.2	7492.1	7795.9	8158.5	8227.1	8839.6	9378.6	9466.8
15°	6619.9	6664.0	6673.8	6928.6	7149.1	7550.9	7835.1	7977.2	8682.8	9241.4	9579.5
17.5°	6570.9	6629.7	6634.6	6845.3	7080.5	7418.6	7668.5	7859.6	8550.5	9310.0	9584.4
20°	6668.9	6634.6	6664.0	6796.3	7026.6	7350.0	7712.6	7776.3	8506.4	9344.3	9638.3
22.5°	6948.2	6938.4	6864.9	6972.7	7134.4	7472.5	7815.5	7913.5	8633.8	9520.7	9682.4
25°	7256.9	7310.8	7242.2	7227.5	7340.2	7673.4	8129.1	8256.5	9060.1	9839.2	9819.6
27.5°	7835.1	7781.2	7781.2	7712.6	7683.2	7844.9	8467.2	8677.9	9535.4	10250.8	9976.4
30°	8388.8	8447.6	8403.5	8428.0	8232.0	8217.3	8947.4	9207.1	10378.2	10878.0	10309.6
32.5°	9265.9	9187.5	9261.0	9197.3	8937.6	8673.0	9599.1	9868.6	11397.4	11598.3	10809.4
35°	9996.0	9961.7	10275.3	10265.5	9844.1	9584.4	10290.0	10691.8	12107.9	12460.7	11397.4
37.5°	11034.8	10971.1	11328.8	11500.3	11123.0	10735.9	11279.8	11745.3	12769.4	13151.6	12000.1
40°	12103.0	12264.7	12744.9	13029.1	12627.3	12112.8	12490.1	12632.2	13210.4	13602.5	12411.7
42.5°	13455.4	13690.7	14180.7	14425.7	14391.4	13832.8	13720.1	13715.2	13529.0	13475.0	12715.5
45°	14754.0	14665.8	15420.4	15954.5	16385.7	16224.0	14905.9	14758.9	14033.7	13666.2	12793.9
47.5°	15322.4	15293.0	15807.5	16758.1	18228.1	18429.0	16630.7	16062.3	14886.3	14469.8	13220.2
50°	14587.4	14739.3	15248.9	16302.4	18556.4	20090.1	18747.5	17983.1	15881.0	15449.8	14229.7
52.5°	12186.3	12289.2	12774.3	14112.1	17439.2	21070.1	20776.1	20335.1	17708.7	16993.3	15988.8
54°	10020.5	10294.9	10559.5	11902.1	15449.8	20526.2	21888.4	21550.3	18899.4	18277.1	17096.2
55°	8726.9	8888.6	9079.7	10417.4	14072.9	19605.0	21761.0	21790.4	19698.1	18678.9	17841.0
57.5°	6374.9	6487.6	6291.6	6884.5	9662.8	15920.2	19903.9	20697.7	20776.1	19281.6	18296.7
60°	4870.6	4919.6	4699.1	4792.2	6007.4	10927.0	15395.9	16351.4	18742.6	16851.2	15498.8
62.5°	3777.9	3787.7	3782.8	3944.5	4140.5	6428.8	9628.5	10476.2	12921.3	11965.8	10525.2
65°	2783.2	2739.1	2817.5	3307.5	3532.9	4042.5	5071.5	5688.9	7021.7	5929.0	4238.5
67.5°	1803.2	1817.9	1896.3	2459.8	3028.2	3101.7	3121.3	3072.3	3077.2	1695.4	1063.3
70°	1082.9	1107.4	1082.9	1391.6	2165.8	2224.6	2033.5	1984.5	1548.4	401.8	396.9
72.5°	641.9	607.6	543.9	597.8	901.6	1078.0	970.2	965.3	607.6	235.2	235.2
75°	269.5	245.0	200.9	181.3	240.1	230.3	230.3	205.8	161.7	156.8	147.0
77.5°	53.9	53.9	39.2	44.1	58.8	68.6	83.3	83.3	98.0	98.0	93.1
80°	0.0	4.9	14.7	29.4	44.1	63.7	73.5	73.5	83.3	83.3	68.6
82.5°	0.0	4.9	14.7	29.4	39.2	58.8	73.5	73.5	83.3	88.2	73.5
85°	0.0	4.9	14.7	24.5	39.2	49.0	49.0	44.1	34.3	29.4	19.6
87.5°	0.0	0.0	4.9	9.8	4.9	9.8	9.8	9.8	9.8	9.8	9.8
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°	9447.2	9447.2	9447.2	9447.2	9447.2	9447.2	9447.2	9447.2	9447.2	9447.2	9447.2
2.5°	9491.3	9486.4	9368.8	9177.7	9133.6	8971.9	8952.3	8854.3	8908.2	8726.9	8707.3
5°	9412.9	9354.1	9212.0	9089.5	8731.8	8477.0	8276.1	8031.1	7889.0	7913.5	7820.4
7.5°	9525.6	9373.7	9123.8	8697.5	8261.4	7815.5	7575.4	7075.6	6894.3	6624.8	6585.6
10°	9408.0	9295.3	8908.2	8202.6	7599.9	6958.0	6394.5	5840.8	5419.4	5238.1	5198.9
12.5°	9398.2	9202.2	8555.4	7771.4	6899.2	5978.0	5159.7	4468.8	4052.3	3817.1	3763.2
15°	9246.3	9011.1	8158.5	7105.0	5899.6	4753.0	3861.2	3194.8	2876.3	2739.1	2778.3
17.5°	9261.0	8908.2	7761.6	6399.4	4914.7	3488.8	2636.2	2293.2	2209.9	2244.2	2244.2
20°	9246.3	8677.9	7281.4	5586.0	3763.2	2420.6	1935.5	1813.0	1866.9	1974.7	1950.2
22.5°	9167.9	8570.1	6840.4	4728.5	2768.5	1793.4	1553.3	1558.2	1641.5	1773.8	1803.2
25°	9226.7	8330.0	6281.8	3861.2	2018.8	1430.8	1347.5	1381.8	1470.0	1568.0	1587.6
27.5°	9182.6	8158.5	5698.7	2998.8	1474.9	1229.9	1225.0	1264.2	1303.4	1376.9	1376.9
30°	9231.6	8001.7	5125.4	2229.5	1215.2	1127.0	1107.4	1136.8	1176.0	1190.7	1185.8
32.5°	9412.9	7884.1	4463.9	1666.0	1073.1	1029.0	1029.0	1029.0	1024.1	1043.7	1048.6
35°	9809.8	7903.7	3880.8	1288.7	980.0	945.7	931.0	911.4	901.6	911.4	916.3
37.5°	10241.0	7893.9	3278.1	1097.6	911.4	882.0	847.7	818.3	813.4	823.2	808.5
40°	10432.1	7987.0	2719.5	984.9	847.7	813.4	759.5	735.0	739.9	749.7	739.9
42.5°	10691.8	8016.4	2356.9	896.7	788.9	735.0	700.7	671.3	666.4	681.1	676.2
45°	10686.9	7849.8	1974.7	847.7	735.0	676.2	632.1	607.6	607.6	617.4	622.3
47.5°	11000.5	7825.3	1695.4	803.6	695.8	637.0	583.1	563.5	558.6	558.6	548.8
50°	11730.6	8168.3	1479.8	754.6	646.8	592.9	548.8	524.3	504.7	494.9	490.0
52.5°	13156.5	9236.5	1313.2	695.8	592.9	548.8	509.6	490.0	465.5	441.0	436.1
54°	14538.4	10339.0	1303.4	646.8	548.8	519.4	485.1	475.3	445.9	411.6	401.8
55°	15160.7	10980.9	1337.7	607.6	519.4	499.8	470.4	460.6	431.2	392.0	387.1
57.5°	15675.2	11230.8	1318.1	504.7	470.4	465.5	441.0	426.3	392.0	338.1	328.3
60°	12617.5	8491.7	945.7	445.9	431.2	421.4	401.8	392.0	347.9	289.1	284.2
62.5°	7972.3	4885.3	602.7	392.0	377.3	362.6	338.1	328.3	289.1	230.3	215.6
65°	3395.7	2023.7	406.7	347.9	323.4	298.9	279.3	264.6	230.3	171.5	166.6
67.5°	882.0	720.3	338.1	303.8	269.5	235.2	220.5	196.0	156.8	117.6	112.7
70°	396.9	362.6	284.2	254.8	215.6	181.3	161.7	137.2	102.9	78.4	73.5
72.5°	235.2	230.3	215.6	191.1	161.7	137.2	117.6	93.1	68.6	44.1	44.1
75°	147.0	142.1	147.0	132.3	112.7	102.9	88.2	63.7	39.2	19.6	19.6
77.5°	88.2	88.2	88.2	83.3	78.4	78.4	63.7	39.2	19.6	4.9	4.9
80°	68.6	68.6	73.5	68.6	68.6	68.6	53.9	29.4	9.8	0.0	0.0
82.5°	68.6	73.5	83.3	78.4	68.6	58.8	49.0	29.4	9.8	0.0	0.0
85°	19.6	14.7	24.5	34.3	49.0	44.1	34.3	24.5	9.8	0.0	0.0
87.5°	9.8	9.8	9.8	9.8	4.9	4.9	4.9	4.9	4.9	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)