

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: P531677

Luminaire Tested: **GALN-SA7A-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16201 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

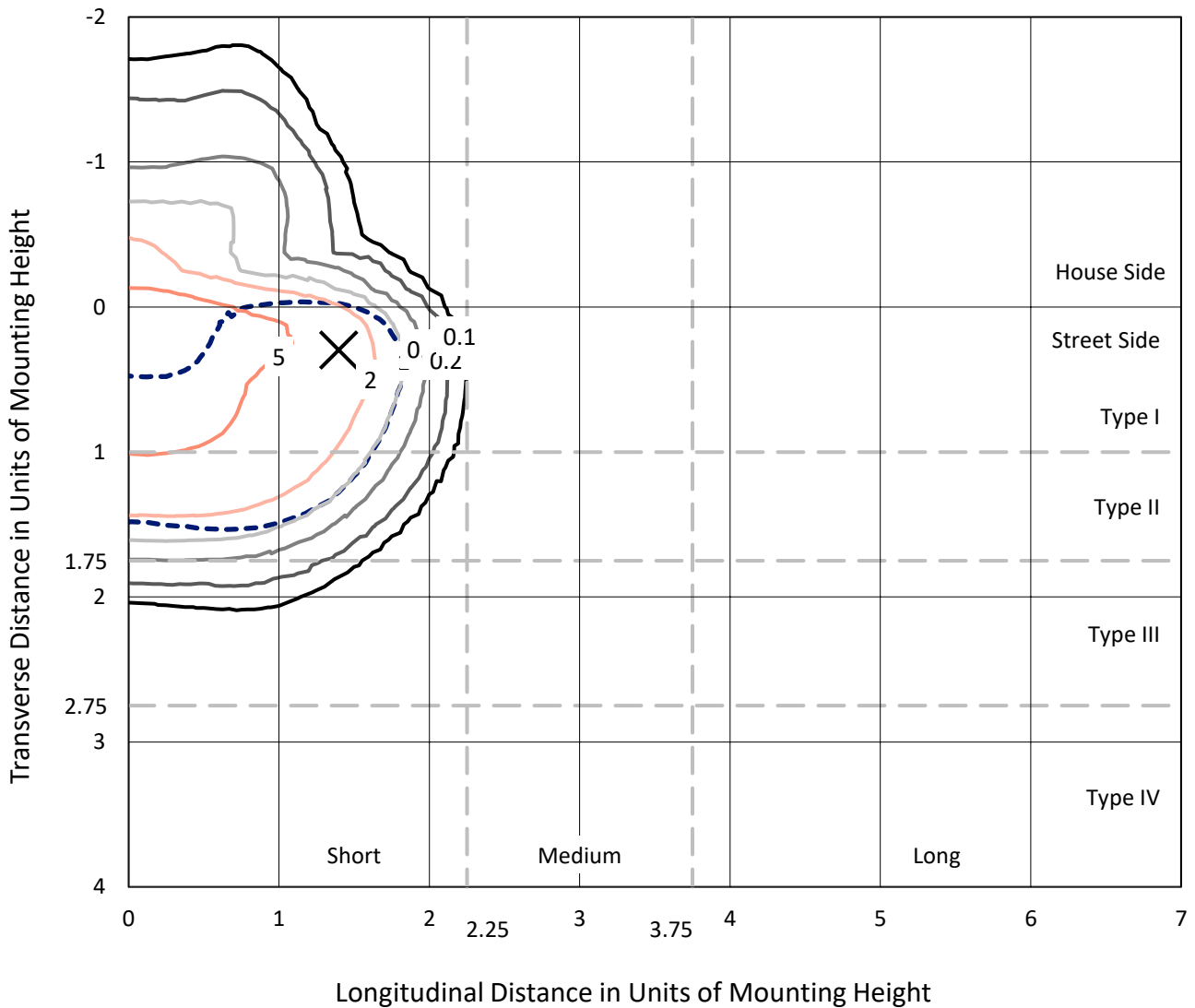
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

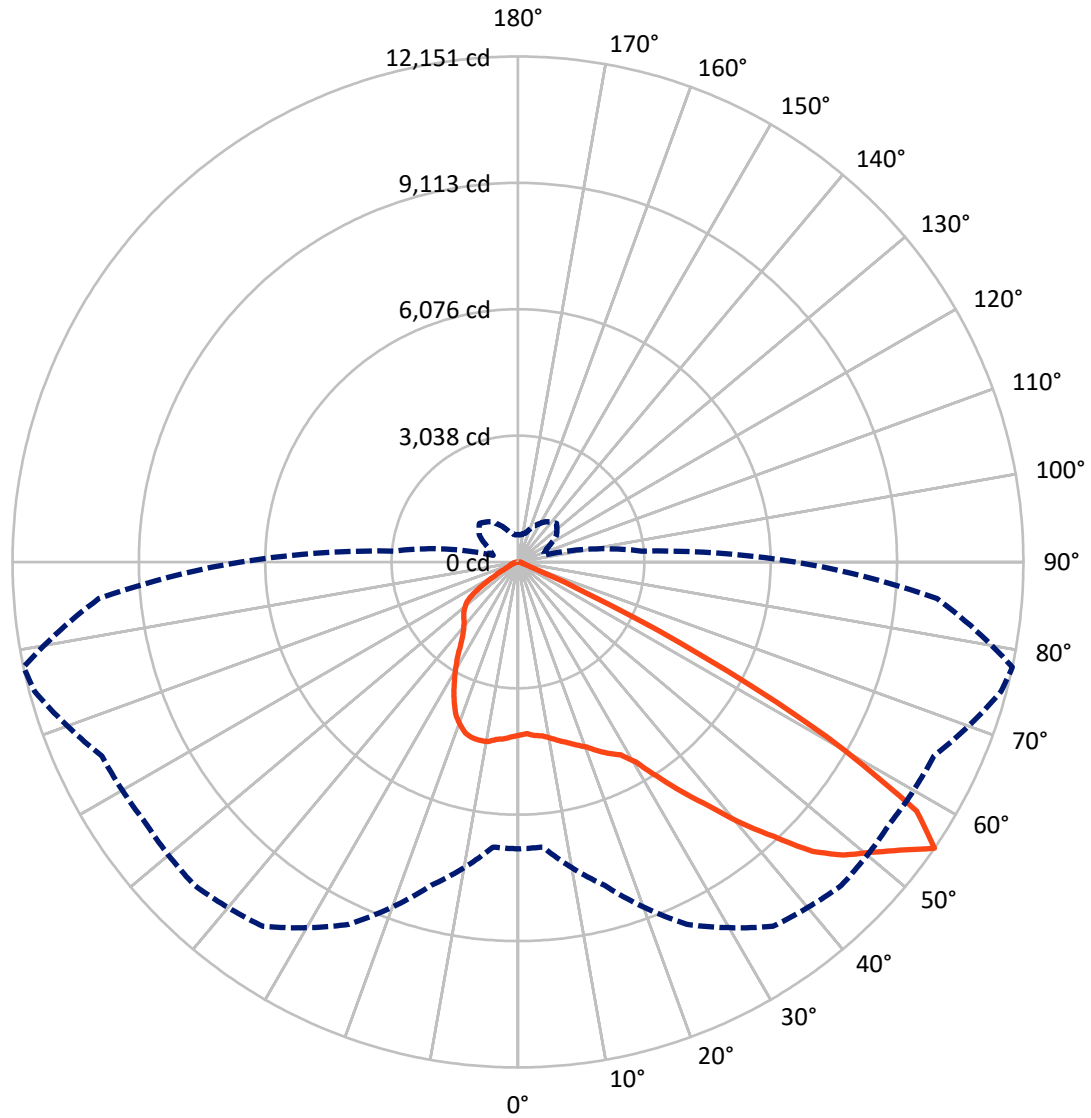
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3009.2	0.0	3009.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	13191.8	0.0	13191.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	16201.0	0.0	16201.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.4	2.3
10°-20°	982.9	6.1
20°-30°	1722.9	10.6
30°-40°	2840.9	17.5
40°-50°	4133.9	25.5
50°-60°	4684.1	28.9
60°-70°	1339.3	8.3
70°-80°	104.0	0.6
80°-90°	21.6	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°	16201.0	100.0
0°-180°	16201.0	100.0

Coefficient of Utilization



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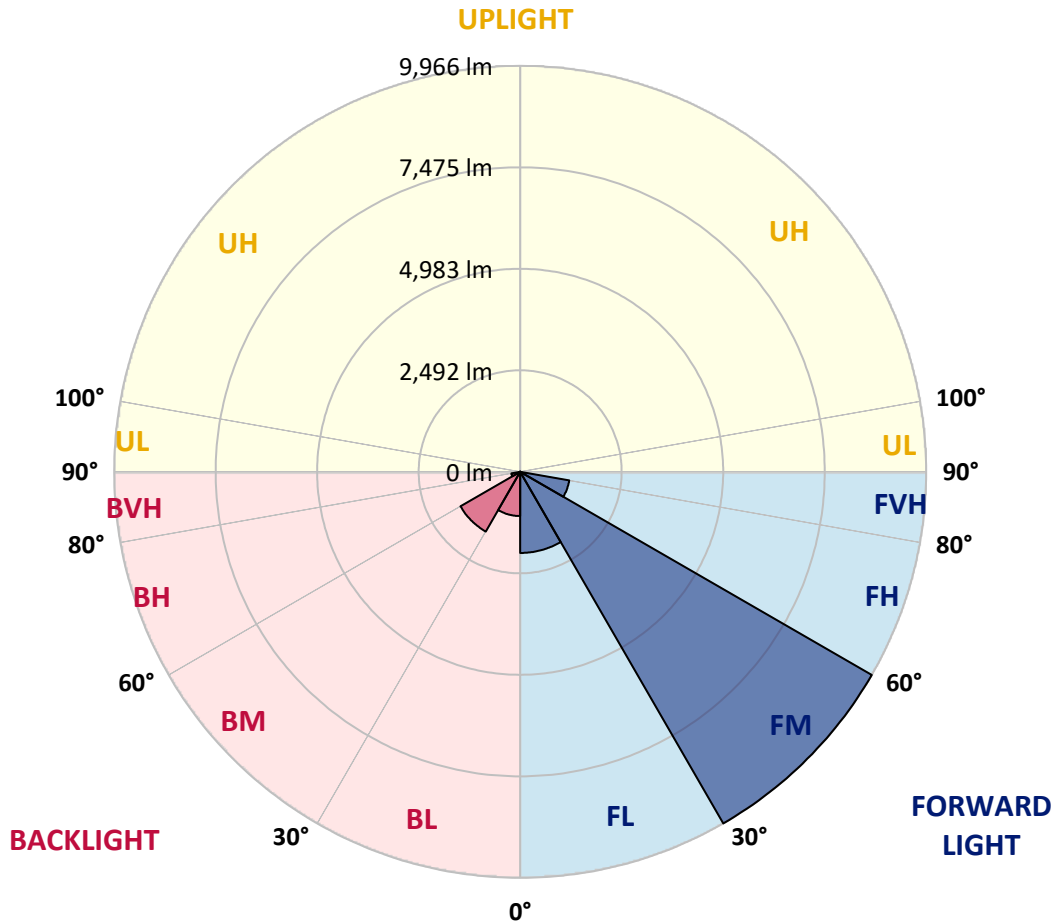
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1991.6	12.3			
FM (30°-60°)	9966.1	61.5			
FH (60°-80°)	1223.6	7.6			G1/1800
FVH (80°-90°)	10.5	0.1			G1/100
BL (0°-30°)	1085.7	6.7	B3/2500		
BM (30°-60°)	1692.7	10.4	B2/2500		
BH (60°-80°)	219.7	1.4	B1/500		G1/500
BVH (80°-90°)	11.1	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4165.3	4165.3	4165.3	4165.3	4165.3	4165.3	4165.3	4165.3	4165.3	4165.3	4165.3
2.5°	3916.2	3953.8	3959.6	4006.0	4003.1	4081.3	4104.5	4107.4	4159.5	4133.4	4200.0
5°	3806.1	3785.8	3777.1	3858.2	3881.4	3950.9	4008.9	4043.6	4150.8	4188.5	4258.0
7.5°	3707.6	3707.6	3713.4	3785.8	3777.1	3866.9	3927.8	4034.9	4191.4	4223.2	4307.2
10°	3612.0	3577.3	3620.7	3696.0	3759.8	3800.3	3927.8	4029.1	4211.6	4304.3	4420.2
12.5°	3562.8	3580.2	3586.0	3641.0	3710.5	3832.2	3901.7	4069.7	4356.5	4411.5	4536.0
15°	3872.7	3838.0	3754.0	3704.7	3762.7	3820.6	3994.4	4165.3	4431.8	4510.0	4649.0
17.5°	4231.9	4202.9	4133.4	4000.2	3869.8	3977.0	4113.1	4269.6	4512.9	4628.7	4834.4
20°	4701.2	4654.8	4585.3	4324.6	4211.6	4095.8	4240.6	4426.0	4646.1	4750.4	4961.8
22.5°	5260.2	5260.2	5103.8	4788.1	4553.4	4443.4	4504.2	4611.4	4793.8	4935.8	5144.3
25°	5842.4	5825.0	5683.1	5355.8	4959.0	4828.6	4898.1	4973.4	5022.7	5100.9	5239.9
27.5°	6508.6	6407.2	6227.7	5865.6	5515.1	5263.1	5338.4	5271.8	5211.0	5251.5	5451.4
30°	6960.5	7024.2	6795.4	6447.8	6117.6	5836.6	5851.1	5793.2	5515.1	5573.0	5691.8
32.5°	7429.7	7470.3	7342.8	7151.7	6821.5	6494.1	6375.4	6326.1	6117.6	6143.7	6027.8
35°	7820.8	7899.0	7786.0	7702.0	7606.4	7342.8	7015.5	7174.8	6838.8	6775.1	6473.9
37.5°	8180.0	8156.8	8290.0	8203.1	8182.8	7997.5	7638.3	7670.2	7444.2	7429.7	7082.1
40°	8501.5	8507.3	8689.7	8730.3	8649.2	8319.0	7797.6	8049.6	8232.1	8249.5	7803.4
42.5°	8768.0	8846.2	9002.6	9329.9	9208.2	8657.9	7962.7	8237.9	8915.7	9022.9	8487.0
45°	8999.7	9159.0	9353.1	9645.6	9576.1	9138.7	8374.0	8626.0	9645.6	9926.6	9130.0
47.5°	9014.2	9222.7	9434.2	9868.7	9955.6	9396.5	8799.8	9240.1	10224.9	10529.1	9599.3
50°	8956.2	9066.3	9489.2	9961.3	10158.3	9816.5	9396.5	9755.7	10786.9	10978.1	9836.8
52.5°	8269.7	8353.7	9202.4	10048.2	10523.3	10291.6	10187.3	10474.0	11360.4	11502.3	10059.8
55°	6893.9	6879.4	8046.7	9610.9	10691.3	10995.4	10931.7	11033.1	12023.7	12151.2	10114.9
57.5°	4715.6	4979.2	5987.2	8003.3	9663.0	10830.3	10896.9	10728.9	11250.3	11299.6	8817.2
60°	2543.2	2653.3	3464.3	5341.3	7357.3	8825.9	8999.7	8695.5	8655.0	8516.0	6294.3
62.5°	1010.9	1065.9	1526.5	2644.6	4008.9	5364.5	5738.1	5613.6	5347.1	4982.1	3258.7
65°	480.8	515.6	758.9	1236.8	1778.5	2236.2	2609.8	2725.7	2010.2	1810.4	1074.6
67.5°	327.3	353.4	553.2	706.8	634.4	663.3	863.2	802.4	472.1	402.6	298.3
70°	249.1	266.5	443.2	480.8	283.9	199.9	223.0	208.6	194.1	197.0	194.1
72.5°	176.7	191.2	324.4	283.9	124.6	92.7	118.8	141.9	141.9	141.9	139.0
75°	107.2	121.7	188.3	110.1	49.2	49.2	75.3	95.6	101.4	104.3	98.5
77.5°	55.0	69.5	63.7	31.9	31.9	37.7	55.0	66.6	72.4	72.4	69.5
80°	11.6	11.6	11.6	17.4	31.9	40.6	55.0	60.8	69.5	69.5	63.7
82.5°	0.0	2.9	8.7	17.4	29.0	37.7	52.1	60.8	69.5	72.4	66.6
85°	0.0	2.9	5.8	11.6	20.3	23.2	20.3	17.4	17.4	17.4	17.4
87.5°	0.0	0.0	2.9	2.9	2.9	5.8	5.8	5.8	5.8	5.8	5.8
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°	4165.3	4165.3	4165.3	4165.3	4165.3	4165.3	4165.3	4165.3	4165.3	4165.3	4165.3
2.5°	4205.8	4214.5	4200.0	4197.1	4185.6	4220.3	4136.3	4116.0	4168.2	4118.9	4130.5
5°	4260.9	4281.1	4255.1	4211.6	4147.9	4049.4	3965.4	3855.4	3803.2	3765.6	3759.8
7.5°	4301.4	4315.9	4289.8	4150.8	3959.6	3710.5	3525.1	3389.0	3281.8	3250.0	3197.8
10°	4466.5	4469.4	4339.1	4032.0	3658.4	3331.1	3047.2	2838.7	2731.5	2664.9	2635.9
12.5°	4576.6	4570.8	4307.2	3797.4	3299.2	2864.7	2540.3	2288.3	2189.8	2158.0	2137.7
15°	4715.6	4683.8	4231.9	3557.0	2835.8	2366.5	2074.0	1900.2	1891.5	1871.2	1891.5
17.5°	4825.7	4735.9	4121.8	3119.6	2392.6	1949.4	1758.2	1769.8	1793.0	1813.3	1816.2
20°	5005.3	4819.9	3869.8	2737.3	1981.3	1671.3	1668.4	1720.6	1778.5	1801.7	1824.8
22.5°	5141.4	4854.7	3600.5	2328.9	1645.3	1558.4	1607.6	1685.8	1729.3	1752.4	1787.2
25°	5190.7	4759.1	3241.3	1920.4	1483.1	1506.2	1581.5	1633.7	1688.7	1714.8	1700.3
27.5°	5239.9	4709.8	2812.6	1581.5	1396.2	1471.5	1535.2	1587.3	1604.7	1639.5	1662.6
30°	5358.7	4538.9	2427.3	1367.2	1352.7	1448.3	1494.6	1512.0	1558.4	1578.6	1578.6
32.5°	5454.3	4472.3	2018.9	1265.8	1346.9	1459.9	1465.7	1465.7	1471.5	1457.0	1451.2
35°	5651.2	4243.5	1653.9	1205.0	1344.0	1462.8	1477.3	1428.0	1294.8	1242.6	1228.2
37.5°	5894.5	4095.8	1384.6	1190.5	1364.3	1497.5	1520.7	1335.3	1161.5	1077.5	1063.0
40°	6190.0	3991.5	1207.9	1184.7	1410.6	1578.6	1509.1	1262.9	1037.0	915.3	909.5
42.5°	6534.7	3895.9	1089.1	1181.8	1468.6	1662.6	1497.5	1202.1	909.5	828.4	840.0
45°	6809.9	3843.8	1008.0	1161.5	1488.8	1711.9	1506.2	1094.9	857.4	805.3	811.0
47.5°	7024.2	3733.7	941.4	1126.8	1485.9	1729.3	1428.0	1051.5	831.3	845.8	860.3
50°	7030.0	3586.0	857.4	1051.5	1442.5	1697.4	1338.2	1010.9	825.5	886.4	915.3
52.5°	6951.8	3377.4	767.6	944.3	1341.1	1587.3	1257.1	993.5	799.5	793.7	828.4
55°	6673.7	2986.4	617.0	764.7	1132.6	1309.3	1184.7	961.7	721.2	654.6	660.4
57.5°	5393.4	2140.6	454.8	547.5	802.4	958.8	1068.8	947.2	648.8	556.1	559.0
60°	3339.8	1213.7	333.1	373.7	495.3	582.2	866.1	880.6	579.3	469.2	463.5
62.5°	1714.8	599.6	257.8	263.6	304.1	341.8	593.8	738.6	524.3	446.1	446.1
65°	573.5	295.5	225.9	202.8	202.8	211.5	359.2	512.7	443.2	373.7	373.7
67.5°	246.2	220.1	197.0	176.7	162.2	153.5	202.8	298.3	330.2	283.9	272.3
70°	191.2	185.4	170.9	147.7	127.4	115.9	118.8	153.5	188.3	182.5	176.7
72.5°	141.9	141.9	136.1	115.9	98.5	84.0	78.2	81.1	89.8	92.7	95.6
75°	98.5	101.4	101.4	89.8	72.4	60.8	52.1	43.4	34.8	29.0	26.1
77.5°	66.6	69.5	75.3	66.6	55.0	40.6	31.9	23.2	14.5	5.8	5.8
80°	57.9	66.6	72.4	66.6	57.9	43.4	31.9	17.4	8.7	0.0	0.0
82.5°	60.8	66.6	75.3	63.7	55.0	40.6	31.9	20.3	8.7	2.9	0.0
85°	14.5	14.5	17.4	20.3	26.1	29.0	23.2	14.5	8.7	2.9	0.0
87.5°	5.8	5.8	5.8	5.8	5.8	2.9	2.9	2.9	2.9	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)