

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: P530325

Luminaire Tested: **GALN-SA5C-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530325
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-SA5C-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA 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: 19947 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

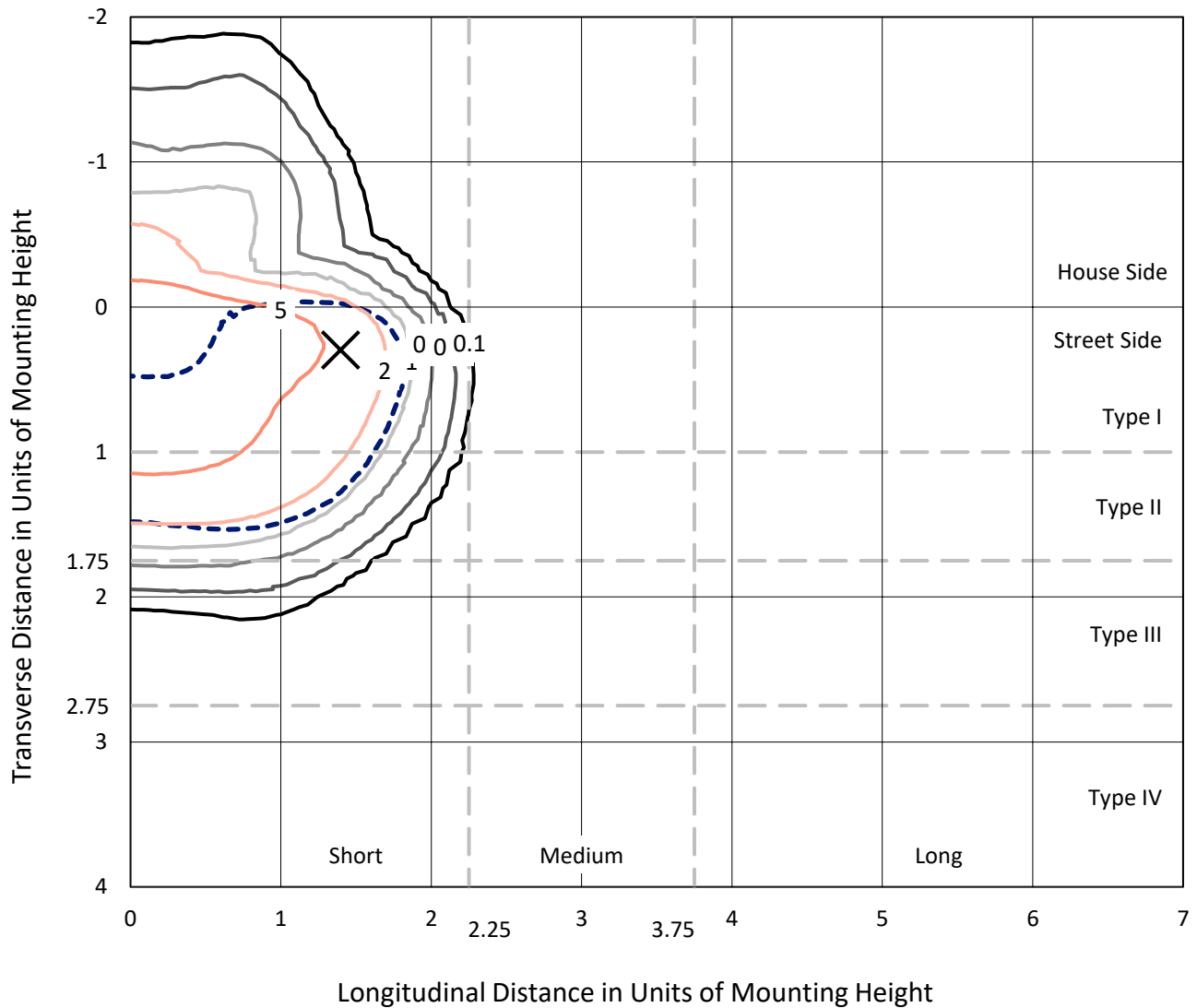
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

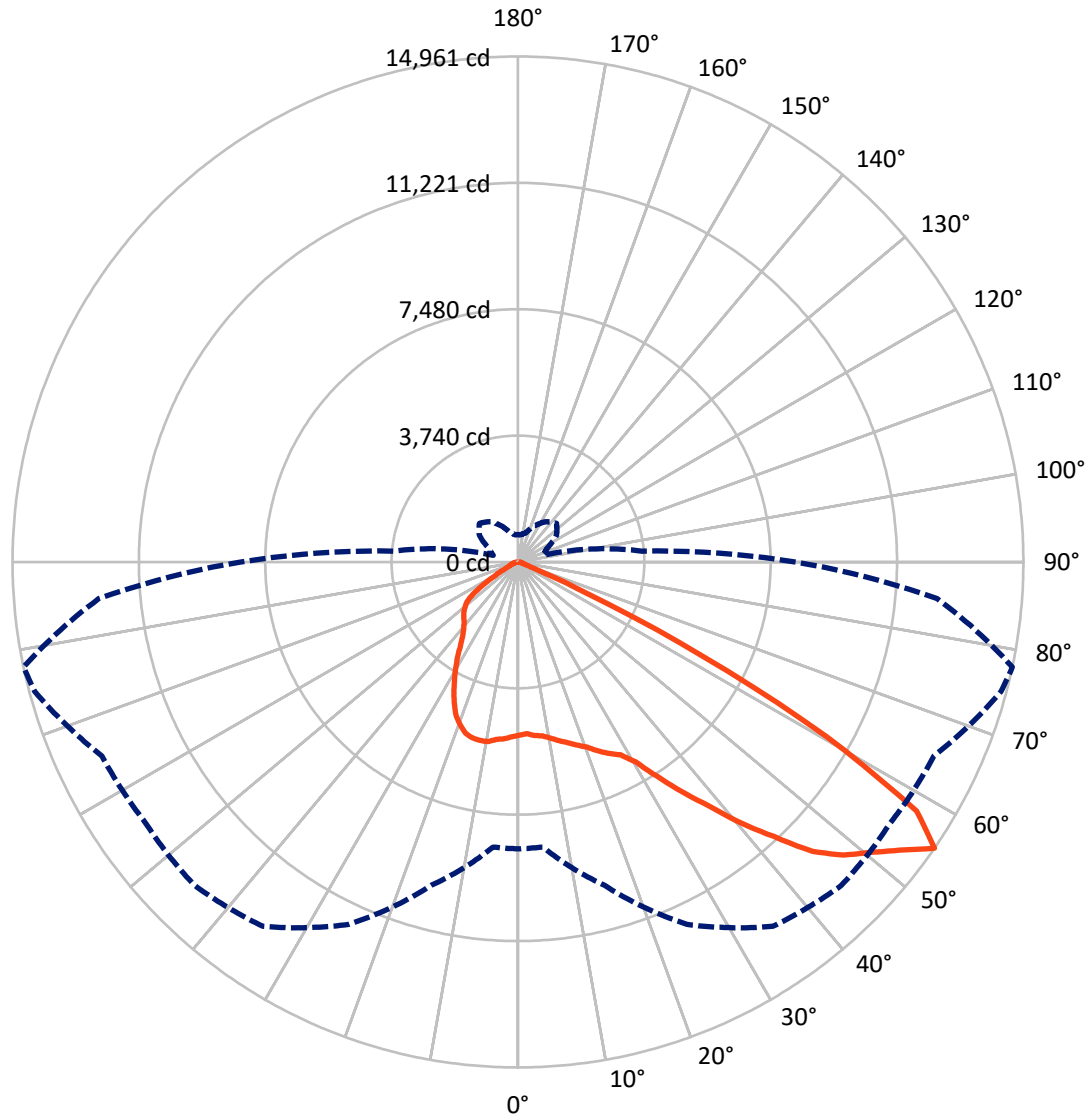
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	3704.9	0.0	3704.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16242.1	0.0	16242.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	19947.0	0.0	19947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.3	2.3
10°-20°	1210.2	6.1
20°-30°	2121.3	10.6
30°-40°	3497.8	17.5
40°-50°	5089.7	25.5
50°-60°	5767.1	28.9
60°-70°	1648.9	8.3
70°-80°	128.0	0.6
80°-90°	26.6	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°	19947.0	100.0
0°-180°	19947.0	100.0

Coefficient of Utilization



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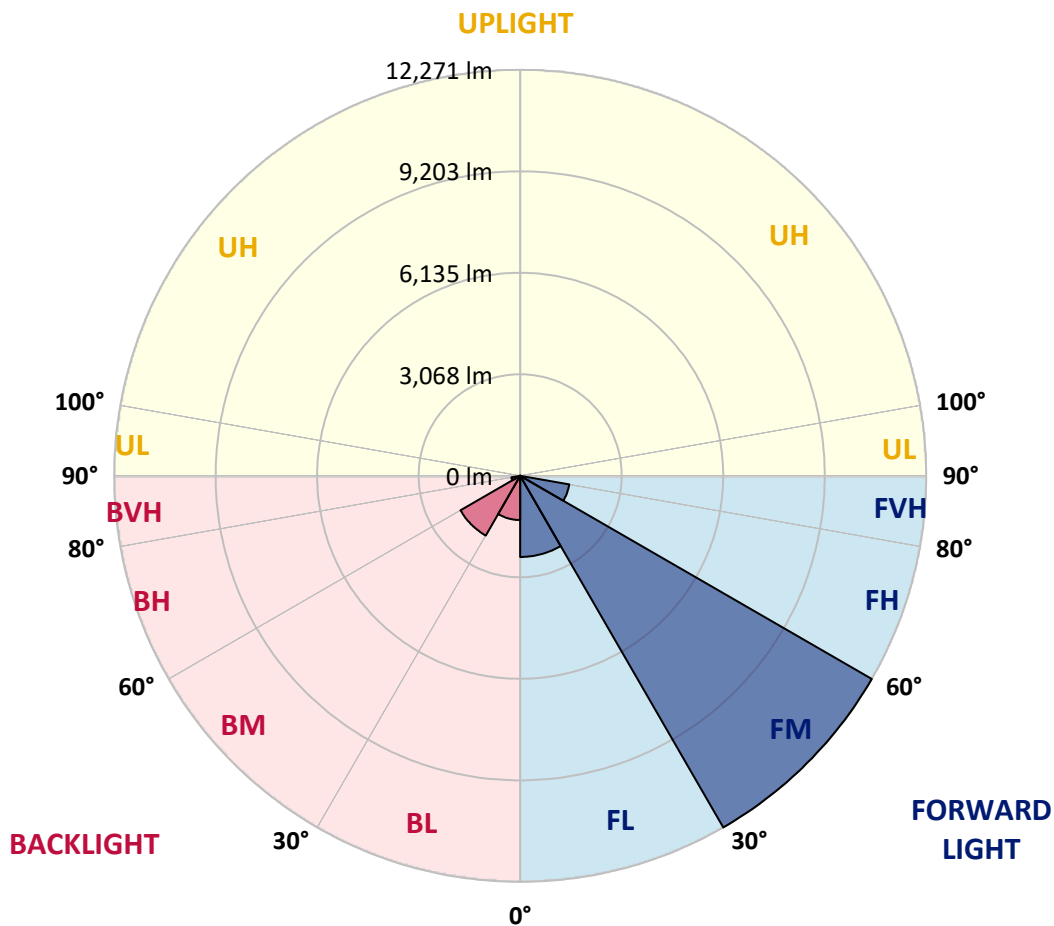
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2452.1	12.3			
FM (30°-60°)	12270.5	61.5			
FH (60°-80°)	1506.5	7.6			G1/1800
FVH (80°-90°)	13.0	0.1			G1/100
BL (0°-30°)	1336.8	6.7	B3/2500		
BM (30°-60°)	2084.1	10.4	B2/2500		
BH (60°-80°)	270.4	1.4	B1/500		G1/500
BVH (80°-90°)	13.7	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°	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4
2.5°	4821.7	4868.0	4875.2	4932.2	4928.7	5025.0	5053.5	5057.1	5121.3	5089.2	5171.2
5°	4686.2	4661.2	4650.5	4750.4	4778.9	4864.5	4935.8	4978.6	5110.6	5156.9	5242.5
7.5°	4564.9	4564.9	4572.0	4661.2	4650.5	4761.1	4835.9	4967.9	5160.5	5199.7	5303.1
10°	4447.2	4404.4	4457.9	4550.6	4629.1	4679.0	4835.9	4960.8	5185.4	5299.6	5442.2
12.5°	4386.6	4408.0	4415.1	4482.9	4568.5	4718.3	4803.8	5010.7	5363.8	5431.5	5584.9
15°	4768.2	4725.4	4622.0	4561.3	4632.7	4704.0	4918.0	5128.4	5456.5	5552.8	5724.0
17.5°	5210.4	5174.7	5089.2	4925.1	4764.6	4896.6	5064.2	5256.8	5556.3	5699.0	5952.2
20°	5788.2	5731.1	5645.5	5324.5	5185.4	5042.8	5221.1	5449.4	5720.4	5848.8	6109.1
22.5°	6476.5	6476.5	6283.9	5895.1	5606.3	5470.8	5545.6	5677.6	5902.3	6077.0	6333.8
25°	7193.3	7171.9	6997.1	6594.1	6105.6	5945.1	6030.7	6123.4	6184.0	6280.3	6451.5
27.5°	8013.5	7888.7	7667.6	7221.8	6790.3	6480.0	6572.7	6490.7	6415.8	6465.8	6711.8
30°	8569.9	8648.4	8366.6	7938.7	7532.1	7186.2	7204.0	7132.7	6790.3	6861.6	7007.8
32.5°	9147.6	9197.6	9040.7	8805.3	8398.7	7995.7	7849.5	7788.9	7532.1	7564.2	7421.5
35°	9629.1	9725.4	9586.3	9482.9	9365.2	9040.7	8637.7	8833.8	8420.1	8341.7	7970.8
37.5°	10071.3	10042.8	10206.8	10099.9	10074.9	9846.6	9404.4	9443.6	9165.5	9147.6	8719.7
40°	10467.2	10474.3	10699.0	10748.9	10649.1	10242.5	9600.6	9910.8	10135.5	10156.9	9607.7
42.5°	10795.3	10891.6	11084.2	11487.2	11337.4	10659.8	9803.8	10142.6	10977.2	11109.1	10449.4
45°	11080.6	11276.7	11515.7	11875.9	11790.3	11251.8	10310.3	10620.5	11875.9	12221.8	11241.1
47.5°	11098.4	11355.2	11615.5	12150.5	12257.5	11569.2	10834.5	11376.6	12589.2	12963.6	11818.8
50°	11027.1	11162.6	11683.3	12264.6	12507.1	12086.3	11569.2	12011.4	13281.0	13516.4	12111.3
52.5°	10181.9	10285.3	11330.2	12371.6	12956.5	12671.2	12542.8	12895.9	13987.2	14161.9	12385.9
55°	8487.9	8470.0	9907.3	11833.1	13163.3	13537.8	13459.3	13584.2	14803.8	14960.8	12453.6
57.5°	5806.0	6130.5	7371.6	9853.8	11897.3	13334.5	13416.5	13209.7	13851.6	13912.3	10855.9
60°	3131.2	3266.8	4265.3	6576.3	9058.5	10866.6	11080.6	10706.1	10656.2	10485.0	7749.6
62.5°	1244.6	1312.4	1879.5	3256.1	4935.8	6604.8	7064.9	6911.6	6583.4	6134.1	4012.1
65°	592.0	634.8	934.4	1522.8	2189.7	2753.2	3213.3	3355.9	2475.0	2229.0	1323.1
67.5°	403.0	435.1	681.2	870.2	781.0	816.7	1062.8	987.9	581.3	495.7	367.3
70°	306.7	328.1	545.6	592.0	349.5	246.1	274.6	256.8	238.9	242.5	238.9
72.5°	217.5	235.4	399.4	349.5	153.4	114.1	146.2	174.8	174.8	174.8	171.2
75°	132.0	149.8	231.8	135.5	60.6	60.6	92.7	117.7	124.8	128.4	121.3
77.5°	67.8	85.6	78.5	39.2	39.2	46.4	67.8	82.0	89.2	89.2	85.6
80°	14.3	14.3	14.3	21.4	39.2	49.9	67.8	74.9	85.6	85.6	78.5
82.5°	0.0	3.6	10.7	21.4	35.7	46.4	64.2	74.9	85.6	89.2	82.0
85°	0.0	3.6	7.1	14.3	25.0	28.5	25.0	21.4	21.4	21.4	21.4
87.5°	0.0	0.0	3.6	3.6	3.6	7.1	7.1	7.1	7.1	7.1	7.1
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°	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4	5128.4
2.5°	5178.3	5189.0	5171.2	5167.6	5153.3	5196.1	5092.7	5067.8	5132.0	5071.3	5085.6
5°	5246.1	5271.0	5238.9	5185.4	5107.0	4985.7	4882.3	4746.8	4682.6	4636.2	4629.1
7.5°	5296.0	5313.8	5281.7	5110.6	4875.2	4568.5	4340.2	4172.6	4040.7	4001.4	3937.2
10°	5499.3	5502.9	5342.4	4964.3	4504.3	4101.3	3751.8	3495.0	3363.1	3281.0	3245.4
12.5°	5634.8	5627.7	5303.1	4675.5	4062.1	3527.1	3127.7	2817.4	2696.1	2656.9	2632.0
15°	5806.0	5766.8	5210.4	4379.5	3491.4	2913.7	2553.5	2339.5	2328.8	2303.9	2328.8
17.5°	5941.5	5831.0	5074.9	3840.9	2945.8	2400.1	2164.8	2179.0	2207.6	2232.5	2236.1
20°	6162.6	5934.4	4764.6	3370.2	2439.4	2057.8	2054.2	2118.4	2189.7	2218.3	2246.8
22.5°	6330.2	5977.2	4433.0	2867.3	2025.7	1918.7	1979.3	2075.6	2129.1	2157.6	2200.4
25°	6390.9	5859.5	3990.7	2364.5	1826.0	1854.5	1947.2	2011.4	2079.2	2111.3	2093.4
27.5°	6451.5	5798.9	3462.9	1947.2	1719.0	1811.7	1890.2	1954.3	1975.7	2018.5	2047.1
30°	6597.7	5588.4	2988.6	1683.3	1665.5	1783.2	1840.2	1861.6	1918.7	1943.7	1943.7
32.5°	6715.4	5506.4	2485.7	1558.5	1658.3	1797.4	1804.6	1804.6	1811.7	1793.9	1786.7
35°	6957.9	5224.7	2036.4	1483.6	1654.8	1801.0	1818.8	1758.2	1594.2	1530.0	1512.1
37.5°	7257.5	5042.8	1704.7	1465.8	1679.7	1843.8	1872.3	1644.1	1430.1	1326.7	1308.8
40°	7621.3	4914.4	1487.2	1458.6	1736.8	1943.7	1858.1	1554.9	1276.7	1127.0	1119.8
42.5°	8045.6	4796.7	1340.9	1455.1	1808.1	2047.1	1843.8	1480.0	1119.8	1020.0	1034.2
45°	8384.4	4732.5	1241.1	1430.1	1833.1	2107.7	1854.5	1348.1	1055.6	991.4	998.6
47.5°	8648.4	4597.0	1159.1	1387.3	1829.5	2129.1	1758.2	1294.6	1023.5	1041.4	1059.2
50°	8655.5	4415.1	1055.6	1294.6	1776.0	2089.9	1647.6	1244.6	1016.4	1091.3	1127.0
52.5°	8559.2	4158.3	945.1	1162.6	1651.2	1954.3	1547.8	1223.3	984.3	977.2	1020.0
55°	8216.8	3676.9	759.6	941.5	1394.4	1612.0	1458.6	1184.0	888.0	806.0	813.1
57.5°	6640.5	2635.5	559.9	674.0	987.9	1180.5	1316.0	1166.2	798.9	684.7	688.3
60°	4112.0	1494.3	410.1	460.1	609.8	716.8	1066.3	1084.2	713.3	577.7	570.6
62.5°	2111.3	738.2	317.4	324.5	374.5	420.8	731.1	909.4	645.5	549.2	549.2
65°	706.1	363.8	278.2	249.6	249.6	260.3	442.2	631.2	545.6	460.1	460.1
67.5°	303.1	271.0	242.5	217.5	199.7	189.0	249.6	367.3	406.6	349.5	335.2
70°	235.4	228.2	210.4	181.9	156.9	142.7	146.2	189.0	231.8	224.7	217.5
72.5°	174.8	174.8	167.6	142.7	121.3	103.4	96.3	99.9	110.6	114.1	117.7
75°	121.3	124.8	124.8	110.6	89.2	74.9	64.2	53.5	42.8	35.7	32.1
77.5°	82.0	85.6	92.7	82.0	67.8	49.9	39.2	28.5	17.8	7.1	7.1
80°	71.3	82.0	89.2	82.0	71.3	53.5	39.2	21.4	10.7	0.0	0.0
82.5°	74.9	82.0	92.7	78.5	67.8	49.9	39.2	25.0	10.7	3.6	0.0
85°	17.8	17.8	21.4	25.0	32.1	35.7	28.5	17.8	10.7	3.6	0.0
87.5°	7.1	7.1	7.1	7.1	7.1	3.6	3.6	3.6	3.6	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)