

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: P533575

Luminaire Tested: **GALN-SA9A-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533575
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-SA9A-730-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 22962 lumens
Efficiency: N/A
Efficacy: 83.8 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

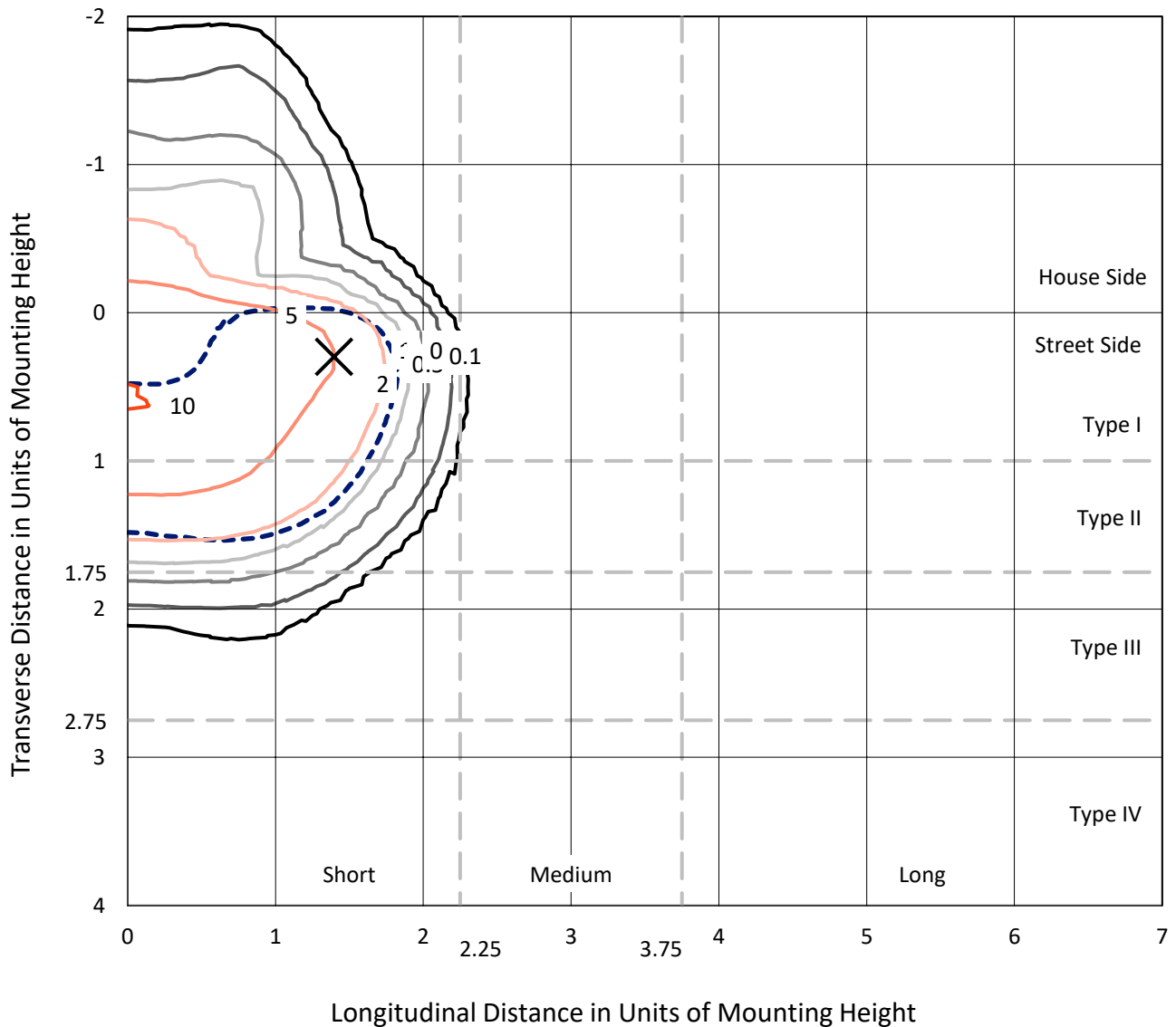
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

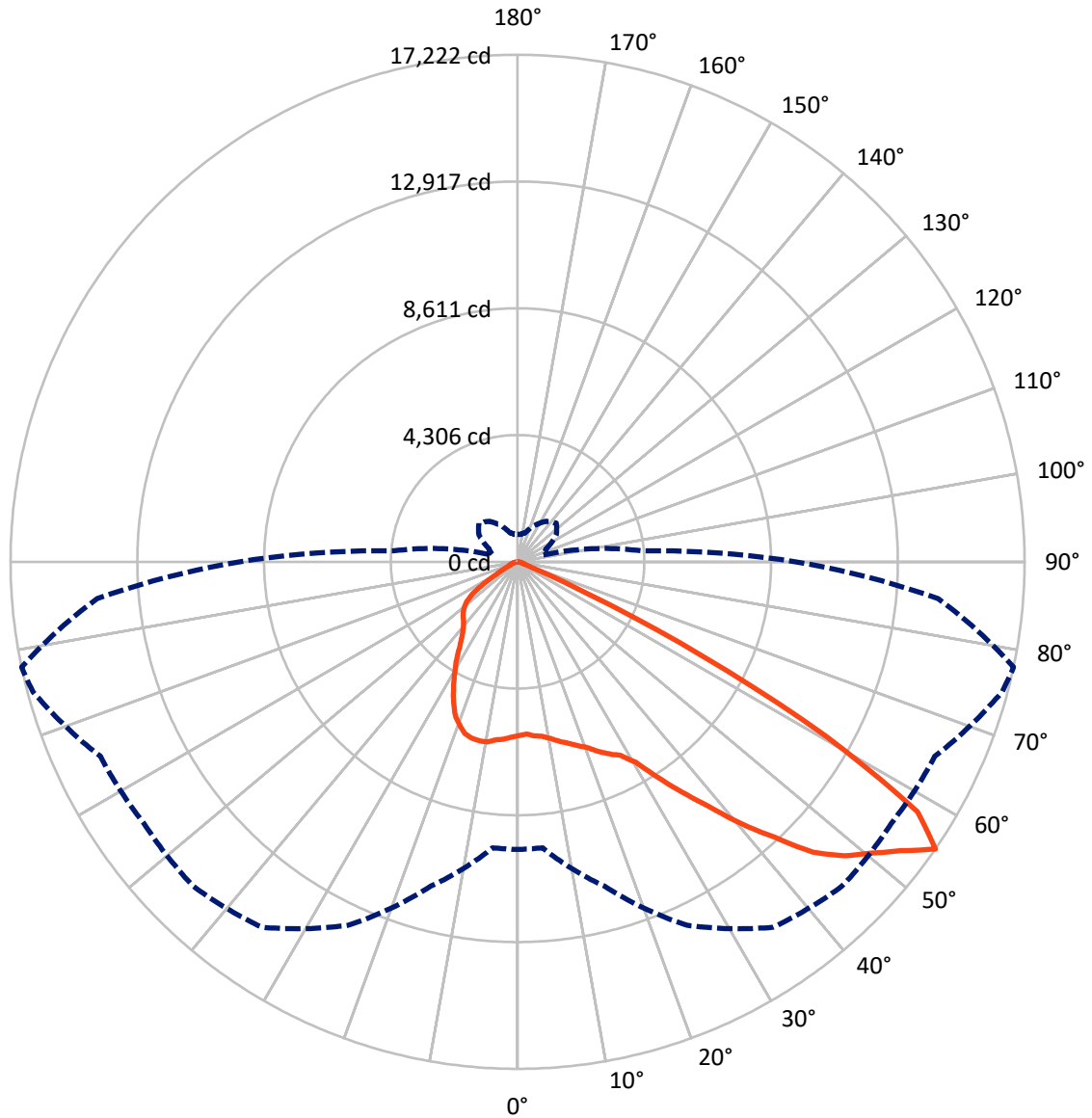
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	4264.9	0.0	4264.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	18697.1	0.0	18697.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	22962.0	0.0	22962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.4	2.3
10°-20°	1393.1	6.1
20°-30°	2441.9	10.6
30°-40°	4026.5	17.5
40°-50°	5859.0	25.5
50°-60°	6638.8	28.9
60°-70°	1898.2	8.3
70°-80°	147.4	0.6
80°-90°	30.6	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°	22962.0	100.0
0°-180°	22962.0	100.0

Coefficient of Utilization

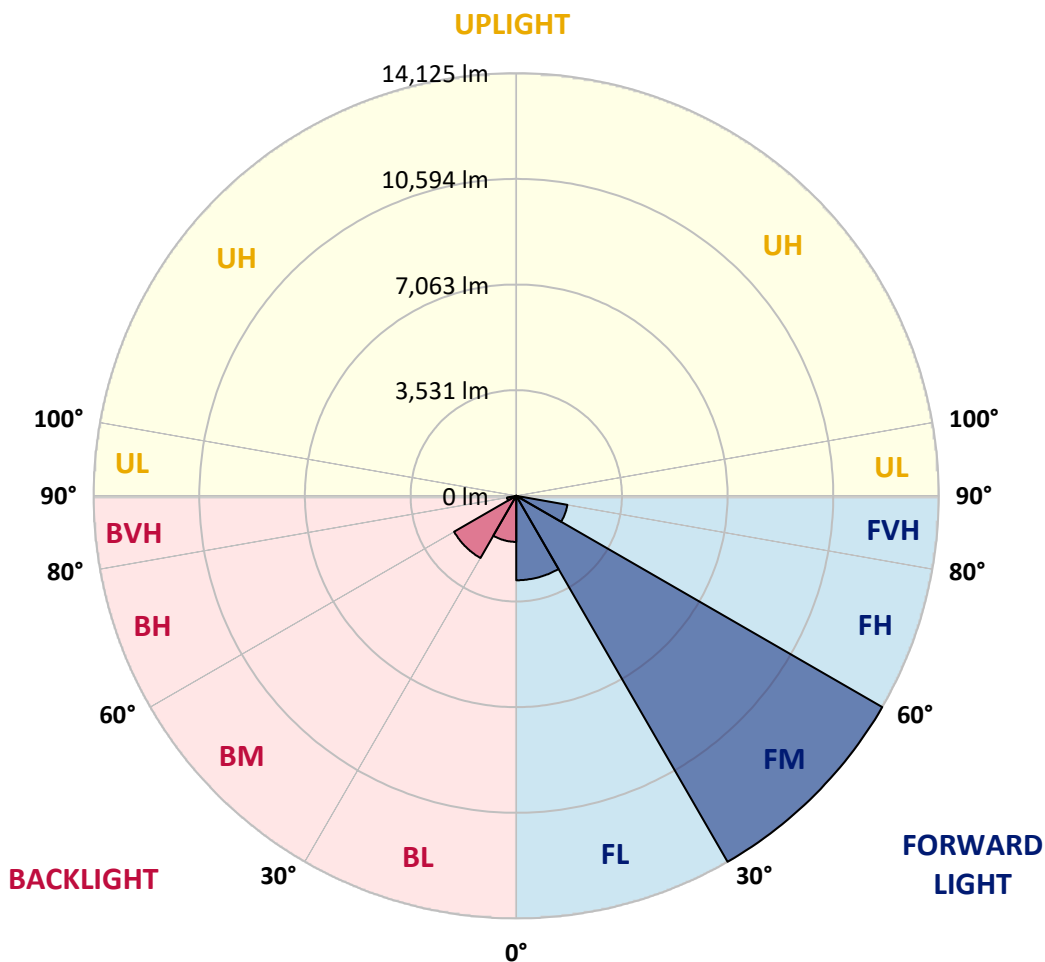


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2822.7	12.3			
FM (30°-60°)	14125.2	61.5			
FH (60°-80°)	1734.2	7.6			G1/1800
FVH (80°-90°)	14.9	0.1			G1/100
BL (0°-30°)	1538.8	6.7	B3/2500		
BM (30°-60°)	2399.1	10.4	B2/2500		
BH (60°-80°)	311.3	1.4	B1/500		G1/500
BVH (80°-90°)	15.7	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°	5903.5	5903.5	5903.5	5903.5	5903.5	5903.5	5903.5	5903.5	5903.5	5903.5	5903.5
2.5°	5550.5	5603.9	5612.1	5677.7	5673.6	5784.5	5817.3	5821.4	5895.3	5858.4	5952.8
5°	5394.5	5365.7	5353.4	5468.4	5501.2	5599.7	5681.9	5731.1	5883.0	5936.4	6034.9
7.5°	5254.9	5254.9	5263.1	5365.7	5353.4	5480.7	5566.9	5718.8	5940.5	5985.7	6104.7
10°	5119.4	5070.2	5131.7	5238.5	5328.8	5386.3	5566.9	5710.6	5969.2	6100.6	6264.8
12.5°	5049.6	5074.3	5082.5	5160.5	5259.0	5431.4	5530.0	5768.1	6174.5	6252.5	6429.0
15°	5488.9	5439.6	5320.6	5250.8	5332.9	5415.0	5661.3	5903.5	6281.2	6392.1	6589.1
17.5°	5998.0	5956.9	5858.4	5669.5	5484.8	5636.7	5829.6	6051.3	6396.2	6560.4	6851.9
20°	6663.0	6597.4	6498.8	6129.3	5969.2	5805.0	6010.3	6273.0	6585.0	6732.8	7032.5
22.5°	7455.4	7455.4	7233.7	6786.2	6453.7	6297.7	6383.9	6535.8	6794.4	6995.6	7291.2
25°	8280.6	8255.9	8054.8	7590.9	7028.4	6843.7	6942.2	7048.9	7118.7	7229.6	7426.6
27.5°	9224.8	9081.1	8826.6	8313.4	7816.7	7459.5	7566.2	7471.8	7385.6	7443.1	7726.3
30°	9865.2	9955.6	9631.2	9138.6	8670.6	8272.4	8292.9	8210.8	7816.7	7898.8	8067.1
32.5°	10530.3	10587.8	10407.2	10136.2	9668.2	9204.3	9036.0	8966.2	8670.6	8707.5	8543.3
35°	11084.5	11195.4	11035.3	10916.2	10780.7	10407.2	9943.2	10169.0	9692.8	9602.5	9175.5
37.5°	11593.6	11560.8	11749.6	11626.5	11597.7	11335.0	10825.9	10871.1	10550.8	10530.3	10037.7
40°	12049.3	12057.5	12316.2	12373.6	12258.7	11790.7	11051.7	11408.9	11667.5	11692.1	11059.9
42.5°	12427.0	12537.8	12759.5	13223.4	13051.0	12271.0	11285.7	11675.7	12636.4	12788.3	12028.8
45°	12755.4	12981.2	13256.3	13670.9	13572.4	12952.5	11868.7	12225.8	13670.9	14069.2	12940.2
47.5°	12776.0	13071.5	13371.2	13987.0	14110.2	13317.9	12472.2	13096.2	14492.0	14923.1	13605.2
50°	12693.9	12849.9	13449.2	14118.4	14397.6	13913.1	13317.9	13826.9	15288.5	15559.4	13941.9
52.5°	11720.9	11839.9	13042.8	14241.6	14914.9	14586.4	14438.6	14845.1	16101.3	16302.5	14258.0
55°	9770.8	9750.3	11404.8	13621.7	15153.0	15584.0	15493.7	15637.4	17041.5	17222.1	14336.0
57.5°	6683.6	7057.2	8485.8	11343.2	13695.6	15350.0	15444.5	15206.3	15945.3	16015.1	12496.8
60°	3604.5	3760.5	4910.0	7570.3	10427.7	12509.1	12755.4	12324.4	12266.9	12069.8	8921.0
62.5°	1432.8	1510.8	2163.5	3748.2	5681.9	7603.2	8132.8	7956.2	7578.5	7061.3	4618.6
65°	681.5	730.8	1075.6	1753.0	2520.7	3169.4	3699.0	3863.2	2849.1	2565.9	1523.1
67.5°	463.9	500.9	784.1	1001.7	899.1	940.1	1223.4	1137.2	669.2	570.6	422.9
70°	353.1	377.7	628.1	681.5	402.3	283.3	316.1	295.6	275.1	279.2	275.1
72.5°	250.4	271.0	459.8	402.3	176.5	131.4	168.3	201.2	201.2	201.2	197.1
75°	151.9	172.4	266.9	156.0	69.8	69.8	106.7	135.5	143.7	147.8	139.6
77.5°	78.0	98.5	90.3	45.2	45.2	53.4	78.0	94.4	102.6	102.6	98.5
80°	16.4	16.4	16.4	24.6	45.2	57.5	78.0	86.2	98.5	98.5	90.3
82.5°	0.0	4.1	12.3	24.6	41.1	53.4	73.9	86.2	98.5	102.6	94.4
85°	0.0	4.1	8.2	16.4	28.7	32.8	28.7	24.6	24.6	24.6	24.6
87.5°	0.0	0.0	4.1	4.1	4.1	8.2	8.2	8.2	8.2	8.2	8.2
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°	5903.5	5903.5	5903.5	5903.5	5903.5	5903.5	5903.5	5903.5	5903.5	5903.5	5903.5
2.5°	5961.0	5973.3	5952.8	5948.7	5932.3	5981.5	5862.5	5833.8	5907.6	5837.9	5854.3
5°	6039.0	6067.8	6030.8	5969.2	5878.9	5739.3	5620.3	5464.3	5390.4	5337.0	5328.8
7.5°	6096.5	6117.0	6080.1	5883.0	5612.1	5259.0	4996.3	4803.3	4651.4	4606.2	4532.3
10°	6330.5	6334.6	6149.9	5714.7	5185.1	4721.2	4318.9	4023.3	3871.4	3777.0	3735.9
12.5°	6486.5	6478.3	6104.7	5382.2	4676.0	4060.2	3600.4	3243.3	3103.7	3058.5	3029.8
15°	6683.6	6638.4	5998.0	5041.4	4019.2	3354.1	2939.5	2693.1	2680.8	2652.1	2680.8
17.5°	6839.6	6712.3	5842.0	4421.5	3391.0	2762.9	2492.0	2508.4	2541.2	2570.0	2574.1
20°	7094.1	6831.4	5484.8	3879.6	2808.1	2368.8	2364.7	2438.6	2520.7	2553.5	2586.4
22.5°	7287.1	6880.6	5103.0	3300.7	2331.9	2208.7	2278.5	2389.3	2450.9	2483.8	2533.0
25°	7356.9	6745.1	4593.9	2721.9	2102.0	2134.8	2241.5	2315.4	2393.4	2430.4	2409.9
27.5°	7426.6	6675.4	3986.3	2241.5	1978.8	2085.5	2175.9	2249.8	2274.4	2323.6	2356.5
30°	7595.0	6433.1	3440.3	1937.7	1917.2	2052.7	2118.4	2143.0	2208.7	2237.4	2237.4
32.5°	7730.4	6338.7	2861.5	1794.1	1909.0	2069.1	2077.3	2077.3	2085.5	2065.0	2056.8
35°	8009.6	6014.4	2344.2	1707.8	1904.9	2073.2	2093.7	2024.0	1835.1	1761.2	1740.7
37.5°	8354.5	5805.0	1962.4	1687.3	1933.6	2122.5	2155.3	1892.6	1646.3	1527.2	1506.7
40°	8773.2	5657.2	1711.9	1679.1	1999.3	2237.4	2138.9	1789.9	1469.7	1297.3	1289.1
42.5°	9261.7	5521.7	1543.6	1675.0	2081.4	2356.5	2122.5	1703.7	1289.1	1174.1	1190.6
45°	9651.8	5447.8	1428.7	1646.3	2110.2	2426.3	2134.8	1551.8	1215.2	1141.3	1149.5
47.5°	9955.6	5291.8	1334.3	1597.0	2106.1	2450.9	2024.0	1490.3	1178.2	1198.8	1219.3
50°	9963.8	5082.5	1215.2	1490.3	2044.5	2405.8	1896.7	1432.8	1170.0	1256.2	1297.3
52.5°	9852.9	4786.9	1087.9	1338.4	1900.8	2249.8	1781.7	1408.1	1133.1	1124.9	1174.1
55°	9458.8	4232.7	874.4	1083.8	1605.2	1855.6	1679.1	1363.0	1022.2	927.8	936.0
57.5°	7644.2	3033.9	644.5	775.9	1137.2	1358.9	1514.9	1342.5	919.6	788.2	792.3
60°	4733.5	1720.2	472.1	529.6	702.0	825.2	1227.5	1248.0	821.1	665.1	656.9
62.5°	2430.4	849.8	365.4	373.6	431.1	484.4	841.6	1046.9	743.1	632.2	632.2
65°	812.9	418.7	320.2	287.4	287.4	299.7	509.1	726.7	628.1	529.6	529.6
67.5°	349.0	312.0	279.2	250.4	229.9	217.6	287.4	422.9	468.0	402.3	385.9
70°	271.0	262.7	242.2	209.4	180.6	164.2	168.3	217.6	266.9	258.6	250.4
72.5°	201.2	201.2	193.0	164.2	139.6	119.1	110.8	115.0	127.3	131.4	135.5
75°	139.6	143.7	143.7	127.3	102.6	86.2	73.9	61.6	49.3	41.1	36.9
77.5°	94.4	98.5	106.7	94.4	78.0	57.5	45.2	32.8	20.5	8.2	8.2
80°	82.1	94.4	102.6	94.4	82.1	61.6	45.2	24.6	12.3	0.0	0.0
82.5°	86.2	94.4	106.7	90.3	78.0	57.5	45.2	28.7	12.3	4.1	0.0
85°	20.5	20.5	24.6	28.7	36.9	41.1	32.8	20.5	12.3	4.1	0.0
87.5°	8.2	8.2	8.2	8.2	8.2	4.1	4.1	4.1	4.1	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)