

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: P531235

Luminaire Tested: **GALN-SA6C-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531235
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-SA6C-730-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 23091 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

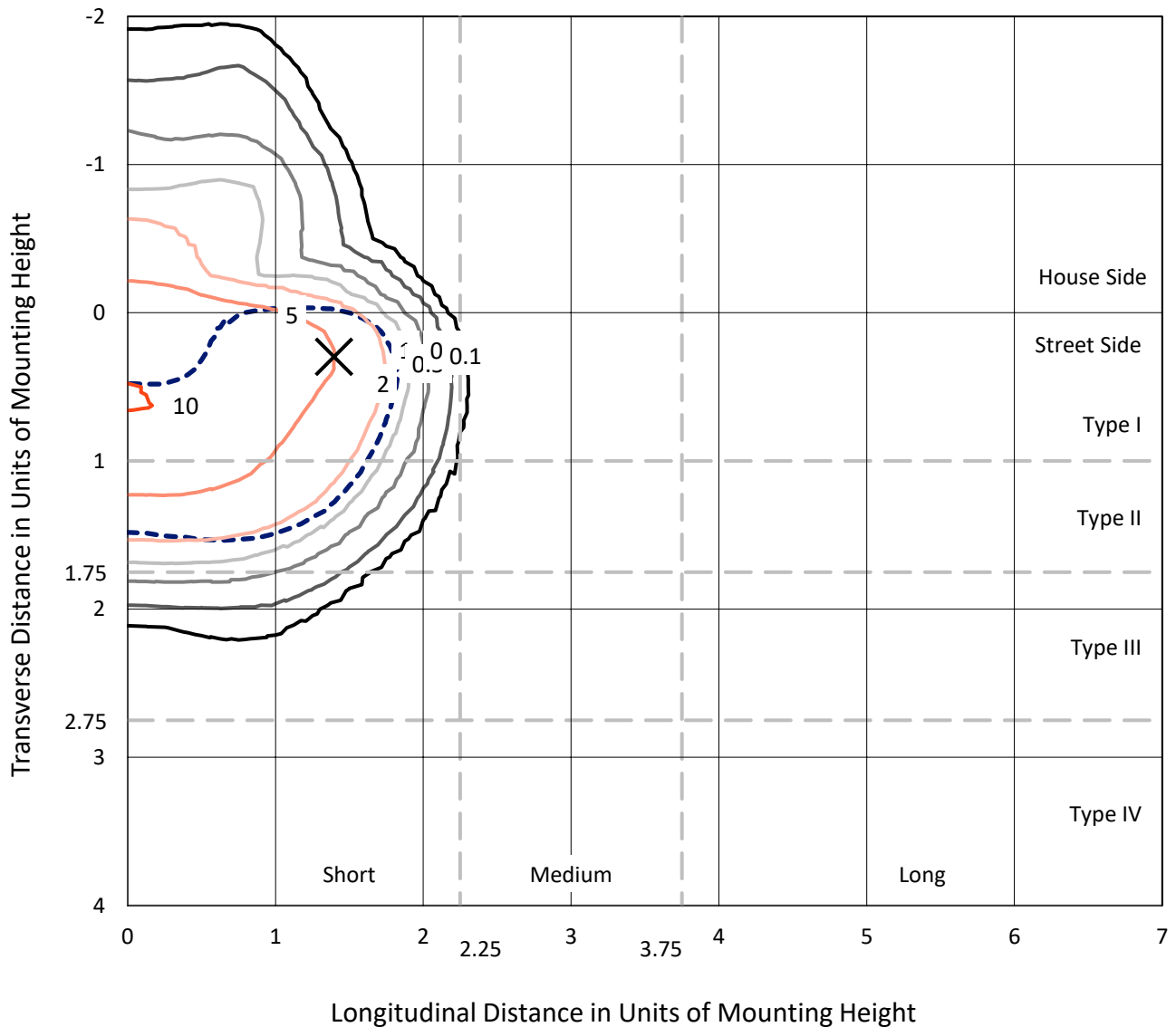
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

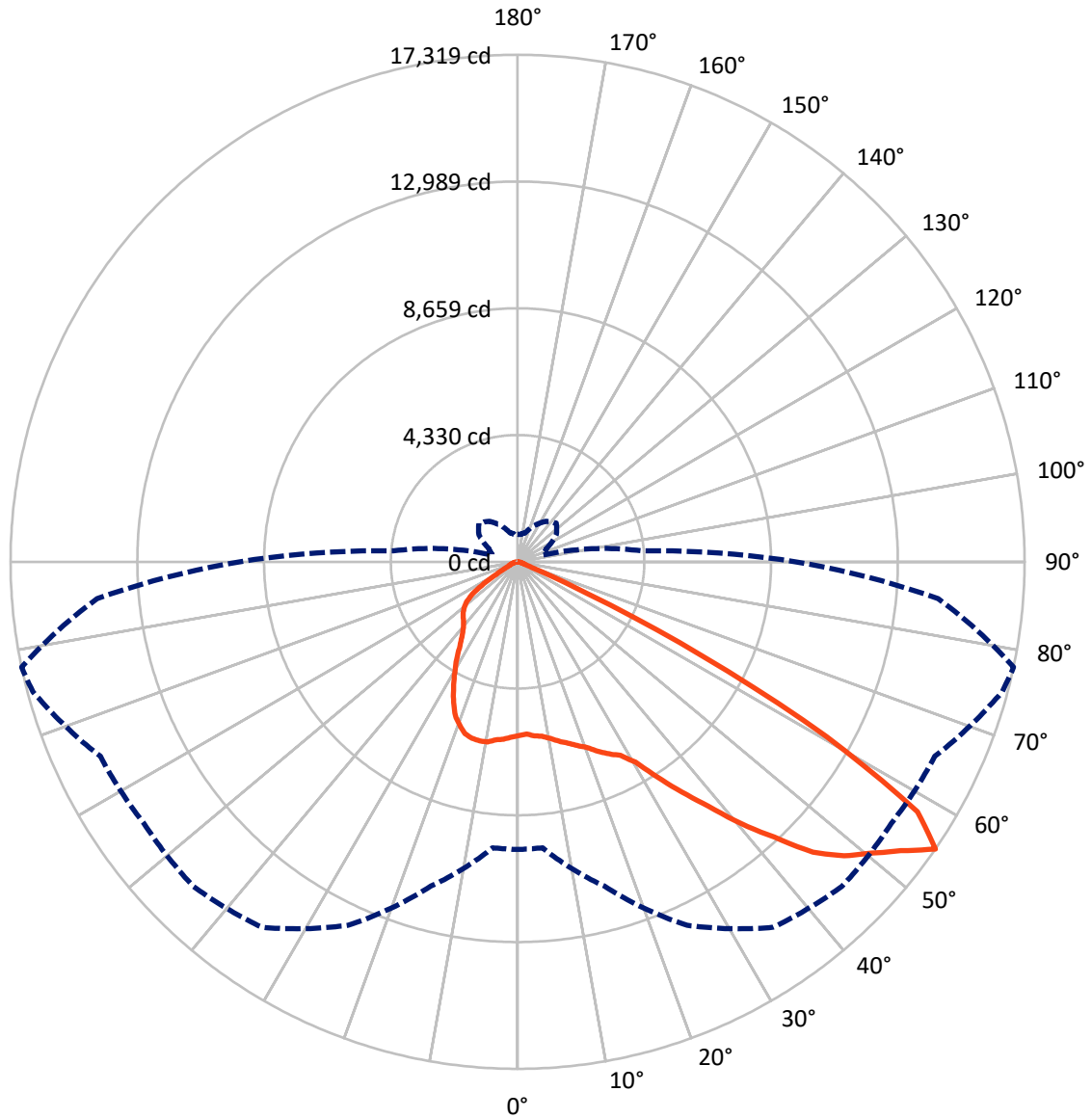
✕ Max cd
 - - - 1/2 Max cd



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	4288.9	0.0	4288.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	18802.1	0.0	18802.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	23091.0	0.0	23091.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.4	2.3
10°-20°	1401.0	6.1
20°-30°	2455.7	10.6
30°-40°	4049.1	17.5
40°-50°	5891.9	25.5
50°-60°	6676.1	28.9
60°-70°	1908.8	8.3
70°-80°	148.2	0.6
80°-90°	30.8	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°	23091.0	100.0
0°-180°	23091.0	100.0

Coefficient of Utilization



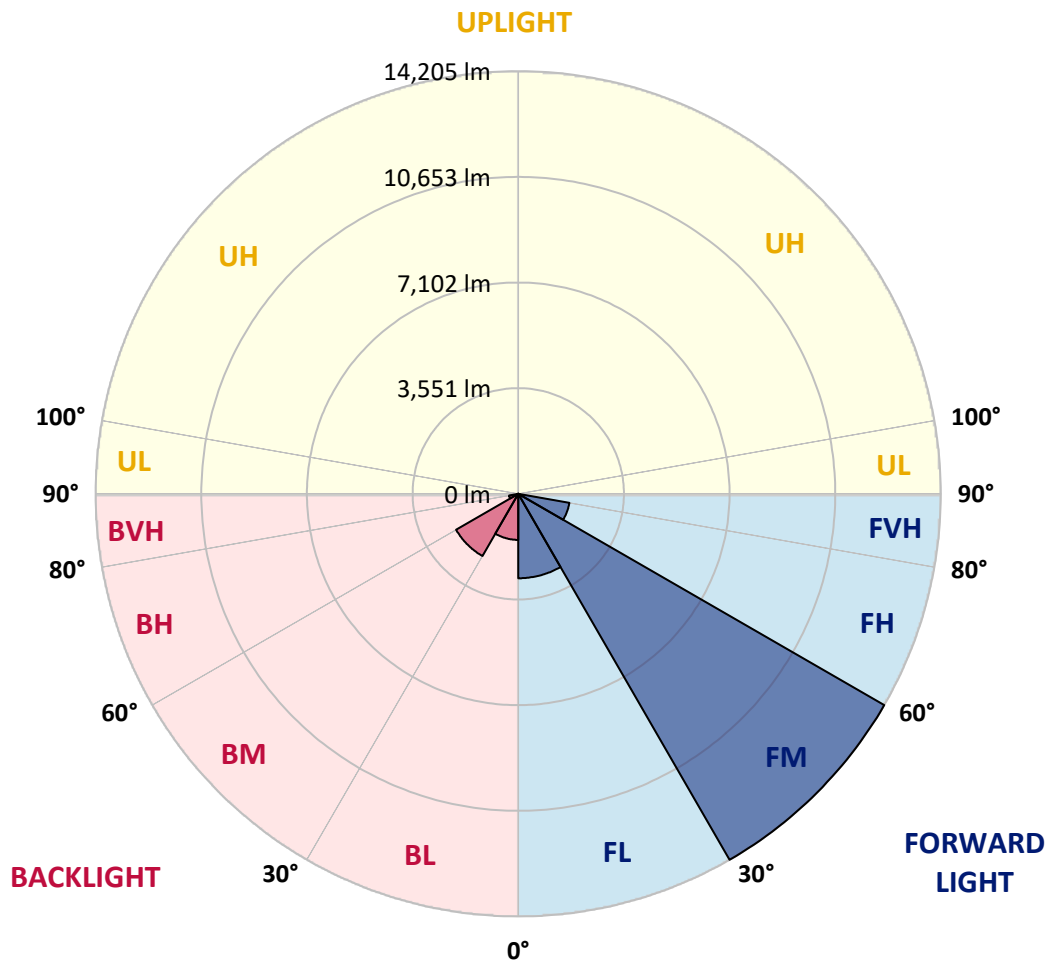
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2838.5	12.3			
FM (30°-60°)	14204.6	61.5			
FH (60°-80°)	1744.0	7.6			G1/1800
FVH (80°-90°)	15.0	0.1			G1/100
BL (0°-30°)	1547.4	6.7	B3/2500		
BM (30°-60°)	2412.6	10.4	B2/2500		
BH (60°-80°)	313.1	1.4	B1/500		G1/500
BVH (80°-90°)	15.8	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°	5936.7	5936.7	5936.7	5936.7	5936.7	5936.7	5936.7	5936.7	5936.7	5936.7	5936.7
2.5°	5581.7	5635.3	5643.6	5709.6	5705.5	5817.0	5850.0	5854.1	5928.5	5891.3	5986.3
5°	5424.8	5395.9	5383.5	5499.1	5532.1	5631.2	5713.8	5763.3	5916.1	5969.7	6068.8
7.5°	5284.4	5284.4	5292.7	5395.9	5383.5	5511.5	5598.2	5750.9	5973.9	6019.3	6139.0
10°	5148.2	5098.6	5160.6	5267.9	5358.7	5416.5	5598.2	5742.7	6002.8	6134.9	6300.0
12.5°	5078.0	5102.8	5111.0	5189.5	5288.5	5461.9	5561.0	5800.5	6209.2	6287.6	6465.2
15°	5519.7	5470.2	5350.5	5280.3	5362.9	5445.4	5693.1	5936.7	6316.5	6428.0	6626.2
17.5°	6031.7	5990.4	5891.3	5701.4	5515.6	5668.4	5862.4	6085.3	6432.1	6597.3	6890.4
20°	6700.5	6634.4	6535.3	6163.8	6002.8	5837.6	6044.0	6308.3	6622.0	6770.7	7072.0
22.5°	7497.3	7497.3	7274.3	6824.3	6489.9	6333.0	6419.7	6572.5	6832.6	7034.9	7332.1
25°	8327.1	8302.3	8100.0	7633.5	7067.9	6882.1	6981.2	7088.5	7158.7	7270.2	7468.4
27.5°	9276.6	9132.1	8876.2	8360.1	7860.6	7501.4	7608.7	7513.8	7427.1	7484.9	7769.7
30°	9920.7	10011.5	9685.3	9189.9	8719.3	8318.8	8339.5	8256.9	7860.6	7943.1	8112.4
32.5°	10589.5	10647.3	10465.6	10193.1	9722.5	9256.0	9086.7	9016.5	8719.3	8756.4	8591.3
35°	11146.8	11258.3	11097.3	10977.5	10841.3	10465.6	9999.1	10226.2	9747.3	9656.4	9227.1
37.5°	11658.7	11625.7	11815.6	11691.8	11662.9	11398.6	10886.7	10932.1	10610.1	10589.5	10094.1
40°	12117.0	12125.3	12385.3	12443.1	12327.5	11856.9	11113.8	11473.0	11733.1	11757.8	11122.0
42.5°	12496.8	12608.3	12831.2	13297.7	13124.3	12339.9	11349.1	11741.3	12707.4	12860.1	12096.4
45°	12827.1	13054.2	13330.8	13747.7	13648.7	13025.3	11935.3	12294.5	13747.7	14148.2	13012.9
47.5°	12847.7	13145.0	13446.4	14065.6	14189.5	13392.7	12542.2	13169.8	14573.4	15006.9	13681.7
50°	12765.2	12922.0	13524.8	14197.7	14478.5	13991.3	13392.7	13904.6	15374.3	15646.8	14020.2
52.5°	11786.7	11906.4	13116.1	14321.6	14998.7	14668.4	14519.8	14928.5	16191.8	16394.1	14338.1
55°	9825.7	9805.1	11468.8	13698.2	15238.1	15671.6	15580.8	15725.3	17137.2	17318.8	14416.5
57.5°	6721.1	7096.8	8533.5	11406.9	13772.5	15436.3	15531.2	15291.8	16034.9	16105.1	12567.0
60°	3624.8	3781.7	4937.6	7612.9	10486.3	12579.4	12827.1	12393.6	12335.8	12137.6	8971.1
62.5°	1440.8	1519.3	2175.7	3769.3	5713.8	7645.9	8178.5	8000.9	7621.1	7100.9	4644.5
65°	685.3	734.9	1081.7	1762.8	2534.9	3187.2	3719.7	3884.9	2865.1	2580.3	1531.7
67.5°	466.5	503.7	788.5	1007.3	904.1	945.4	1230.3	1143.6	672.9	573.9	425.2
70°	355.0	379.8	631.7	685.3	404.6	284.9	317.9	297.2	276.6	280.7	276.6
72.5°	251.8	272.5	462.4	404.6	177.5	132.1	169.3	202.3	202.3	202.3	198.2
75°	152.8	173.4	268.3	156.9	70.2	70.2	107.3	136.2	144.5	148.6	140.4
77.5°	78.4	99.1	90.8	45.4	45.4	53.7	78.4	95.0	103.2	103.2	99.1
80°	16.5	16.5	16.5	24.8	45.4	57.8	78.4	86.7	99.1	99.1	90.8
82.5°	0.0	4.1	12.4	24.8	41.3	53.7	74.3	86.7	99.1	103.2	95.0
85°	0.0	4.1	8.3	16.5	28.9	33.0	28.9	24.8	24.8	24.8	24.8
87.5°	0.0	0.0	4.1	4.1	4.1	8.3	8.3	8.3	8.3	8.3	8.3
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°	5936.7	5936.7	5936.7	5936.7	5936.7	5936.7	5936.7	5936.7	5936.7	5936.7	5936.7
2.5°	5994.5	6006.9	5986.3	5982.1	5965.6	6015.2	5895.4	5866.5	5940.8	5870.7	5887.2
5°	6072.9	6101.8	6064.7	6002.8	5911.9	5771.6	5651.8	5495.0	5420.7	5367.0	5358.7
7.5°	6130.7	6151.4	6114.2	5916.1	5643.6	5288.5	5024.3	4830.3	4677.5	4632.1	4557.8
10°	6366.1	6370.2	6184.4	5746.8	5214.2	4747.7	4343.1	4045.9	3893.1	3798.2	3756.9
12.5°	6522.9	6514.7	6139.0	5412.4	4702.3	4083.0	3620.6	3261.5	3121.1	3075.7	3046.8
15°	6721.1	6675.7	6031.7	5069.7	4041.8	3372.9	2956.0	2708.3	2695.9	2667.0	2695.9
17.5°	6878.0	6750.0	5874.8	4446.3	3410.1	2778.4	2506.0	2522.5	2555.5	2584.4	2588.5
20°	7134.0	6869.7	5515.6	3901.4	2823.9	2382.1	2378.0	2452.3	2534.9	2567.9	2600.9
22.5°	7328.0	6919.3	5131.7	3319.3	2345.0	2221.1	2291.3	2402.8	2464.7	2497.7	2547.3
25°	7398.2	6783.0	4619.7	2737.2	2113.8	2146.8	2254.1	2328.4	2406.9	2444.0	2423.4
27.5°	7468.4	6712.9	4008.7	2254.1	1989.9	2097.3	2188.1	2262.4	2287.2	2336.7	2369.7
30°	7637.6	6469.3	3459.6	1948.6	1928.0	2064.2	2130.3	2155.1	2221.1	2250.0	2250.0
32.5°	7773.9	6374.3	2877.5	1804.1	1919.7	2080.7	2089.0	2089.0	2097.3	2076.6	2068.4
35°	8054.6	6048.2	2357.3	1717.4	1915.6	2084.9	2105.5	2035.3	1845.4	1771.1	1750.5
37.5°	8401.4	5837.6	1973.4	1696.8	1944.5	2134.4	2167.4	1903.2	1655.5	1535.8	1515.1
40°	8822.5	5689.0	1721.6	1688.5	2010.6	2250.0	2150.9	1800.0	1478.0	1304.6	1296.3
42.5°	9313.8	5552.8	1552.3	1684.4	2093.1	2369.7	2134.4	1713.3	1296.3	1180.7	1197.3
45°	9706.0	5478.5	1436.7	1655.5	2122.0	2439.9	2146.8	1560.6	1222.0	1147.7	1156.0
47.5°	10011.5	5321.6	1341.7	1606.0	2117.9	2464.7	2035.3	1498.6	1184.9	1205.5	1226.1
50°	10019.7	5111.0	1222.0	1498.6	2056.0	2419.3	1907.3	1440.8	1176.6	1263.3	1304.6
52.5°	9908.3	4813.8	1094.0	1345.9	1911.5	2262.4	1791.7	1416.1	1139.5	1131.2	1180.7
55°	9511.9	4256.4	879.4	1089.9	1614.2	1866.1	1688.5	1370.6	1028.0	933.0	941.3
57.5°	7687.2	3050.9	648.2	780.3	1143.6	1366.5	1523.4	1350.0	924.8	792.7	796.8
60°	4760.1	1729.8	474.8	532.6	706.0	829.8	1234.4	1255.0	825.7	668.8	660.6
62.5°	2444.0	854.6	367.4	375.7	433.5	487.2	846.3	1052.8	747.2	635.8	635.8
65°	817.4	421.1	322.0	289.0	289.0	301.4	511.9	730.7	631.7	532.6	532.6
67.5°	350.9	313.8	280.7	251.8	231.2	218.8	289.0	425.2	470.6	404.6	388.1
70°	272.5	264.2	243.6	210.6	181.7	165.1	169.3	218.8	268.3	260.1	251.8
72.5°	202.3	202.3	194.0	165.1	140.4	119.7	111.5	115.6	128.0	132.1	136.2
75°	140.4	144.5	144.5	128.0	103.2	86.7	74.3	61.9	49.5	41.3	37.2
77.5°	95.0	99.1	107.3	95.0	78.4	57.8	45.4	33.0	20.6	8.3	8.3
80°	82.6	95.0	103.2	95.0	82.6	61.9	45.4	24.8	12.4	0.0	0.0
82.5°	86.7	95.0	107.3	90.8	78.4	57.8	45.4	28.9	12.4	4.1	0.0
85°	20.6	20.6	24.8	28.9	37.2	41.3	33.0	20.6	12.4	4.1	0.0
87.5°	8.3	8.3	8.3	8.3	8.3	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)