

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: P533731

Luminaire Tested: **GALN-SA9A-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533731
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-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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

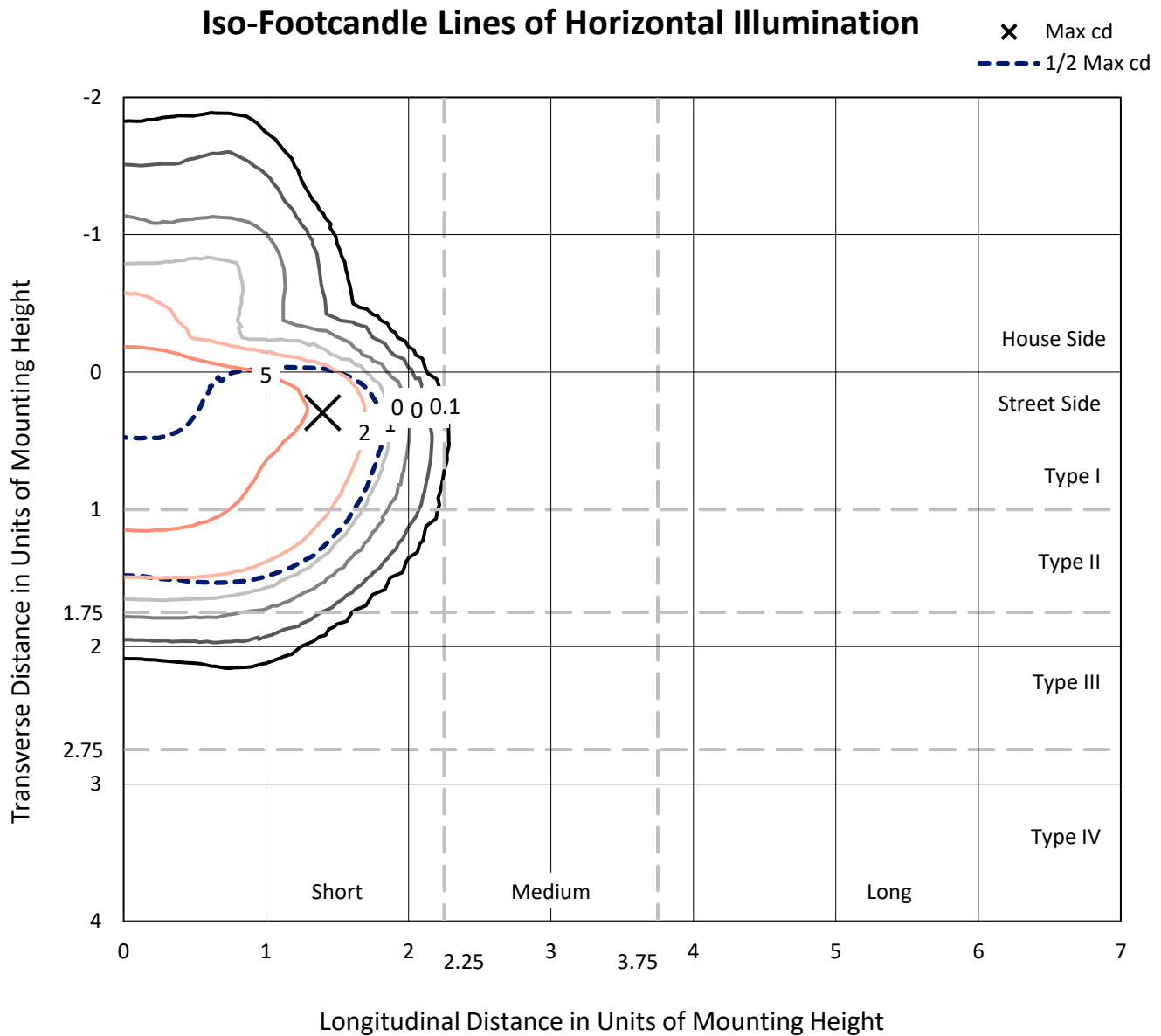
Lumens per Lamp: N/A
Luminaire Lumens: 20036 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

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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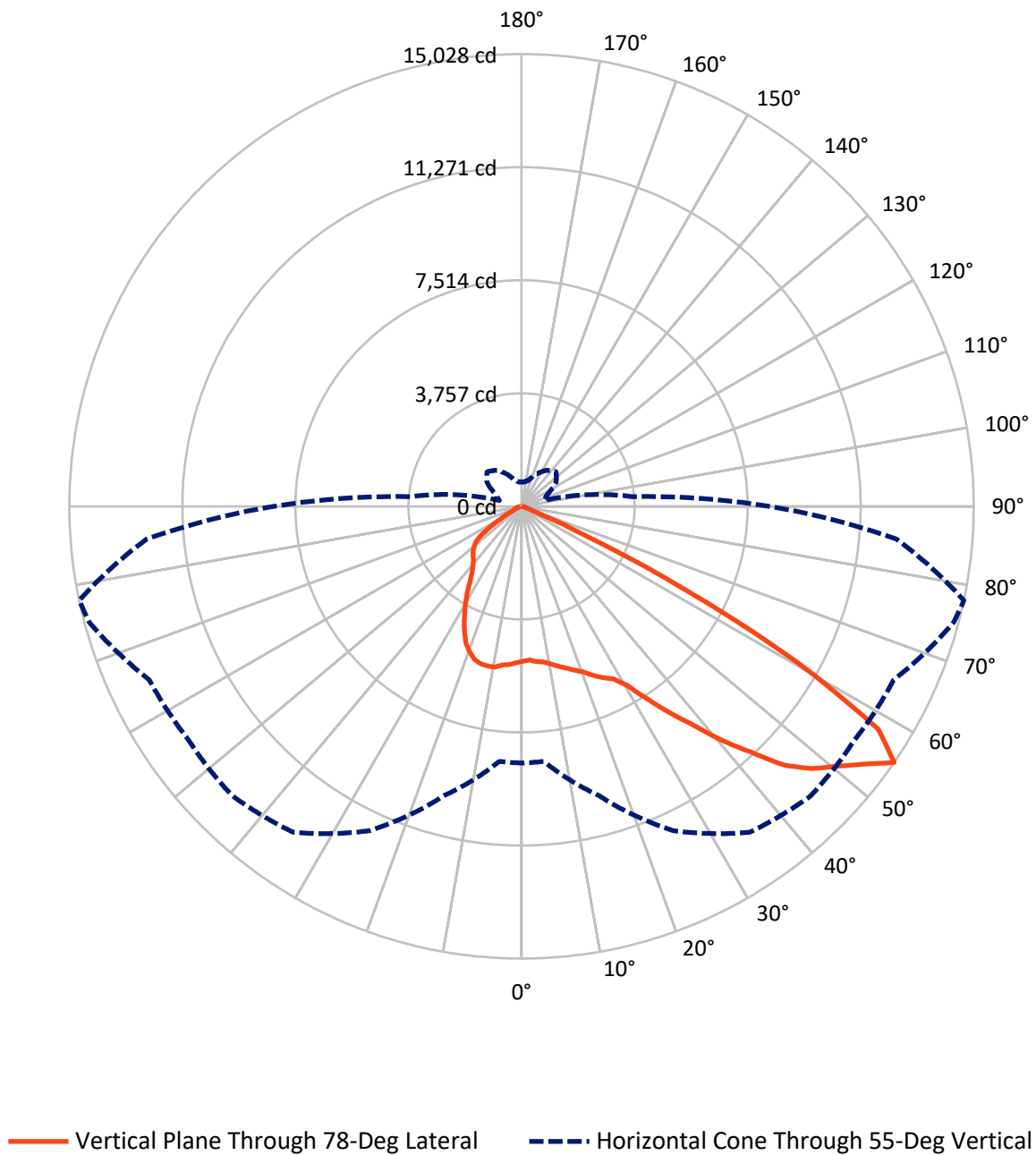


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
Type II - Short - N/A

REPORT NUMBER: P533731

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3721.5	0.0	3721.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16314.5	0.0	16314.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	20036.0	0.0	20036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.3	2.3
10°-20°	1215.6	6.1
20°-30°	2130.8	10.6
30°-40°	3513.4	17.5
40°-50°	5112.4	25.5
50°-60°	5792.9	28.9
60°-70°	1656.3	8.3
70°-80°	128.6	0.6
80°-90°	26.8	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°	20036.0	100.0
0°-180°	20036.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533731

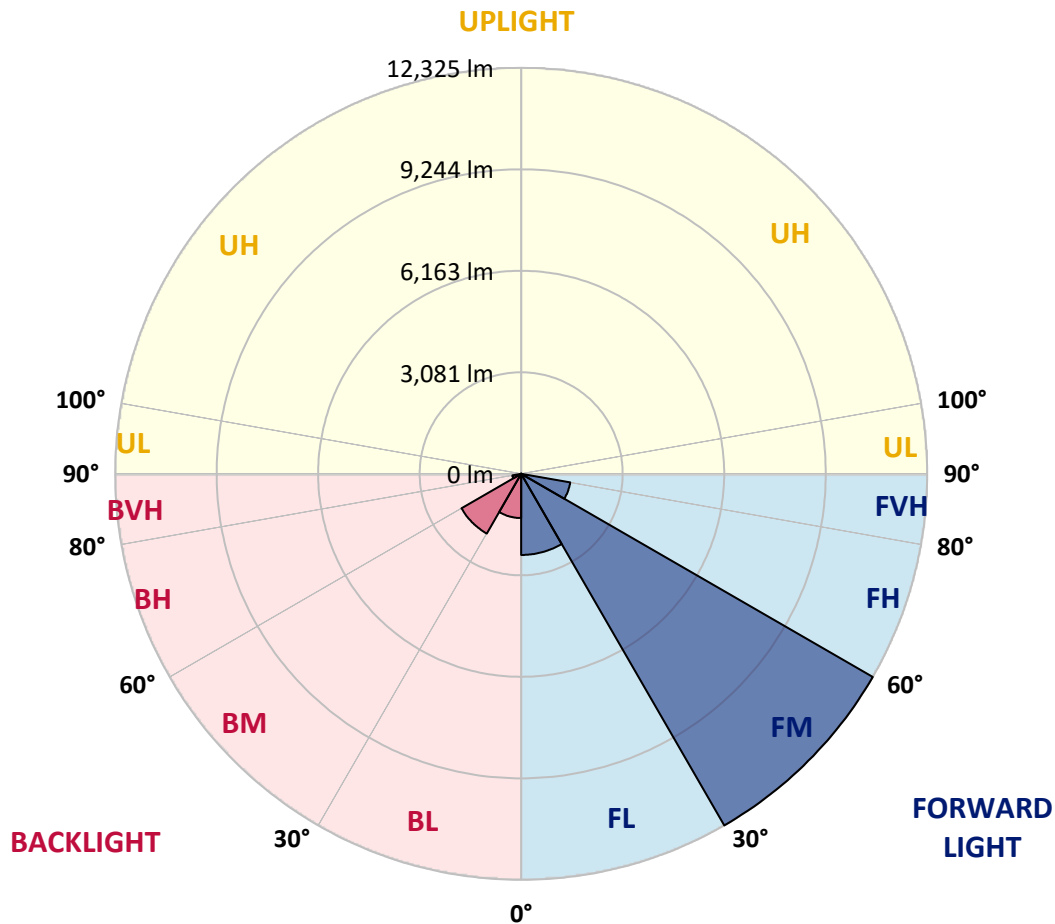
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2463.0	12.3			
FM	(30°-60°)	12325.3	61.5			
FH	(60°-80°)	1513.2	7.6			G1/1800
FVH	(80°-90°)	13.0	0.1			G1/100
BL	(0°-30°)	1342.7	6.7	B3/2500		
BM	(30°-60°)	2093.4	10.4	B2/2500		
BH	(60°-80°)	271.7	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



REPORT NUMBER: P533731

CATALOG NUMBER: GALN-SA9A-830-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3
2.5°	4843.2	4889.8	4896.9	4954.2	4950.7	5047.4	5076.0	5079.6	5144.1	5111.9	5194.3
5°	4707.1	4682.0	4671.2	4771.5	4800.2	4886.2	4957.8	5000.8	5133.4	5179.9	5265.9
7.5°	4585.3	4585.3	4592.4	4682.0	4671.2	4782.3	4857.5	4990.1	5183.5	5222.9	5326.8
10°	4467.1	4424.1	4477.8	4570.9	4649.8	4699.9	4857.5	4982.9	5208.6	5323.2	5466.5
12.5°	4406.2	4427.7	4434.8	4502.9	4588.9	4739.3	4825.3	5033.1	5387.7	5455.8	5609.8
15°	4789.5	4746.5	4642.6	4581.7	4653.3	4725.0	4939.9	5151.3	5480.8	5577.6	5749.5
17.5°	5233.7	5197.8	5111.9	4947.1	4785.9	4918.4	5086.8	5280.2	5581.1	5724.4	5978.8
20°	5814.0	5756.7	5670.7	5348.3	5208.6	5065.3	5244.4	5473.7	5745.9	5874.9	6136.4
22.5°	6505.4	6505.4	6311.9	5921.4	5631.3	5495.2	5570.4	5702.9	5928.6	6104.1	6362.1
25°	7225.4	7203.9	7028.4	6623.6	6132.8	5971.6	6057.6	6150.7	6211.6	6308.3	6480.3
27.5°	8049.3	7923.9	7701.8	7254.0	6820.6	6508.9	6602.1	6519.7	6444.5	6494.6	6741.8
30°	8608.1	8686.9	8403.9	7974.1	7565.7	7218.2	7236.1	7164.5	6820.6	6892.2	7039.1
32.5°	9188.5	9238.6	9081.0	8844.6	8436.2	8031.4	7884.5	7823.6	7565.7	7597.9	7454.7
35°	9672.1	9768.8	9629.1	9525.2	9407.0	9081.0	8676.2	8873.2	8457.7	8378.9	8006.3
37.5°	10116.3	10087.6	10252.4	10144.9	10119.8	9890.6	9446.4	9485.8	9206.4	9188.5	8758.6
40°	10513.9	10521.1	10746.7	10796.9	10696.6	10288.2	9643.4	9955.1	10180.7	10202.2	9650.6
42.5°	10843.5	10940.2	11133.6	11538.4	11388.0	10707.3	9847.6	10187.9	11026.1	11158.7	10496.0
45°	11130.0	11327.1	11567.1	11928.9	11842.9	11302.0	10356.3	10667.9	11928.9	12276.4	11291.2
47.5°	11147.9	11405.9	11667.4	12204.7	12312.2	11620.8	10882.9	11427.4	12645.3	13021.5	11871.6
50°	11076.3	11212.4	11735.4	12319.3	12562.9	12140.2	11620.8	12065.0	13340.3	13576.7	12165.3
52.5°	10227.3	10331.2	11380.8	12426.8	13014.3	12727.7	12598.8	12953.4	14049.6	14225.1	12441.1
55°	8525.7	8507.8	9951.5	11885.9	13222.1	13598.2	13519.4	13644.8	14869.9	15027.5	12509.2
57.5°	5831.9	6157.9	7404.5	9897.7	11950.4	13394.0	13476.4	13268.6	13913.4	13974.3	10904.4
60°	3145.2	3281.3	4284.4	6605.7	9098.9	10915.1	11130.0	10753.9	10703.7	10531.8	7784.2
62.5°	1250.2	1318.3	1887.8	3270.6	4957.8	6634.3	7096.4	6942.4	6612.8	6161.5	4030.0
65°	594.7	637.6	938.5	1529.6	2199.5	2765.5	3227.6	3370.9	2486.1	2238.9	1329.0
67.5°	404.8	437.0	684.2	874.1	784.5	820.3	1067.5	992.3	583.9	497.9	369.0
70°	308.1	329.6	548.1	594.7	351.1	247.2	275.8	257.9	240.0	243.6	240.0
72.5°	218.5	236.4	401.2	351.1	154.0	114.6	146.9	175.5	175.5	175.5	171.9
75°	132.5	150.5	232.8	136.1	60.9	60.9	93.1	118.2	125.4	129.0	121.8
77.5°	68.1	86.0	78.8	39.4	39.4	46.6	68.1	82.4	89.6	89.6	86.0
80°	14.3	14.3	14.3	21.5	39.4	50.2	68.1	75.2	86.0	86.0	78.8
82.5°	0.0	3.6	10.7	21.5	35.8	46.6	64.5	75.2	86.0	89.6	82.4
85°	0.0	3.6	7.2	14.3	25.1	28.7	25.1	21.5	21.5	21.5	21.5
87.5°	0.0	0.0	3.6	3.6	3.6	7.2	7.2	7.2	7.2	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P533731

CATALOG NUMBER: GALN-SA9A-830-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3
2.5°	5201.4	5212.2	5194.3	5190.7	5176.3	5219.3	5115.4	5090.4	5154.8	5094.0	5108.3
5°	5269.5	5294.6	5262.3	5208.6	5129.8	5008.0	4904.1	4768.0	4703.5	4656.9	4649.8
7.5°	5319.6	5337.5	5305.3	5133.4	4896.9	4588.9	4359.6	4191.2	4058.7	4019.3	3954.8
10°	5523.8	5527.4	5366.2	4986.5	4524.4	4119.6	3768.5	3510.6	3378.1	3295.7	3259.8
12.5°	5659.9	5652.8	5326.8	4696.3	4080.2	3542.8	3141.6	2830.0	2708.2	2668.8	2643.7
15°	5831.9	5792.5	5233.7	4399.0	3507.0	2926.7	2564.9	2350.0	2339.2	2314.1	2339.2
17.5°	5968.0	5857.0	5097.5	3858.1	2958.9	2410.9	2174.4	2188.8	2217.4	2242.5	2246.1
20°	6190.1	5960.9	4785.9	3385.2	2450.3	2067.0	2063.4	2127.9	2199.5	2228.2	2256.8
22.5°	6358.5	6003.8	4452.7	2880.1	2034.7	1927.2	1988.1	2084.9	2138.6	2167.3	2210.2
25°	6419.4	5885.6	4008.5	2375.0	1834.1	1862.8	1955.9	2020.4	2088.4	2120.7	2102.8
27.5°	6480.3	5824.7	3478.4	1955.9	1726.6	1819.8	1898.6	1963.1	1984.6	2027.6	2056.2
30°	6627.2	5613.4	3001.9	1690.8	1672.9	1791.1	1848.4	1869.9	1927.2	1952.3	1952.3
32.5°	6745.4	5531.0	2496.8	1565.4	1665.7	1805.5	1812.6	1812.6	1819.8	1801.9	1794.7
35°	6989.0	5248.0	2045.5	1490.2	1662.2	1809.0	1826.9	1766.0	1601.3	1536.8	1518.9
37.5°	7289.9	5065.3	1712.3	1472.3	1687.2	1852.0	1880.7	1651.4	1436.5	1332.6	1314.7
40°	7655.3	4936.3	1493.8	1465.1	1744.6	1952.3	1866.3	1561.9	1282.4	1132.0	1124.8
42.5°	8081.5	4818.1	1346.9	1461.6	1816.2	2056.2	1852.0	1486.6	1124.8	1024.5	1038.9
45°	8421.9	4753.6	1246.6	1436.5	1841.3	2117.1	1862.8	1354.1	1060.3	995.9	1003.0
47.5°	8686.9	4617.5	1164.2	1393.5	1837.7	2138.6	1766.0	1300.4	1028.1	1046.0	1063.9
50°	8694.1	4434.8	1060.3	1300.4	1784.0	2099.2	1655.0	1250.2	1020.9	1096.2	1132.0
52.5°	8597.4	4176.9	949.3	1167.8	1658.6	1963.1	1554.7	1228.7	988.7	981.5	1024.5
55°	8253.5	3693.3	763.0	945.7	1400.7	1619.2	1465.1	1189.3	892.0	809.6	816.8
57.5°	6670.1	2647.3	562.4	677.0	992.3	1185.7	1321.8	1171.4	802.4	687.8	691.4
60°	4130.3	1501.0	412.0	462.1	612.6	720.0	1071.1	1089.0	716.4	580.3	573.2
62.5°	2120.7	741.5	318.8	326.0	376.1	422.7	734.4	913.5	648.4	551.7	551.7
65°	709.3	365.4	279.4	250.8	250.8	261.5	444.2	634.1	548.1	462.1	462.1
67.5°	304.5	272.3	243.6	218.5	200.6	189.9	250.8	369.0	408.4	351.1	336.7
70°	236.4	229.3	211.4	182.7	157.6	143.3	146.9	189.9	232.8	225.7	218.5
72.5°	175.5	175.5	168.4	143.3	121.8	103.9	96.7	100.3	111.0	114.6	118.2
75°	121.8	125.4	125.4	111.0	89.6	75.2	64.5	53.7	43.0	35.8	32.2
77.5°	82.4	86.0	93.1	82.4	68.1	50.2	39.4	28.7	17.9	7.2	7.2
80°	71.6	82.4	89.6	82.4	71.6	53.7	39.4	21.5	10.7	0.0	0.0
82.5°	75.2	82.4	93.1	78.8	68.1	50.2	39.4	25.1	10.7	3.6	0.0
85°	17.9	17.9	21.5	25.1	32.2	35.8	28.7	17.9	10.7	3.6	0.0
87.5°	7.2	7.2	7.2	7.2	7.2	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)