

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: P532093

Luminaire Tested: **GALN-SA7B-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532093
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-SA7B-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA 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: 19154 lumens
Efficiency: N/A
Efficacy: 67.0 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): 286
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



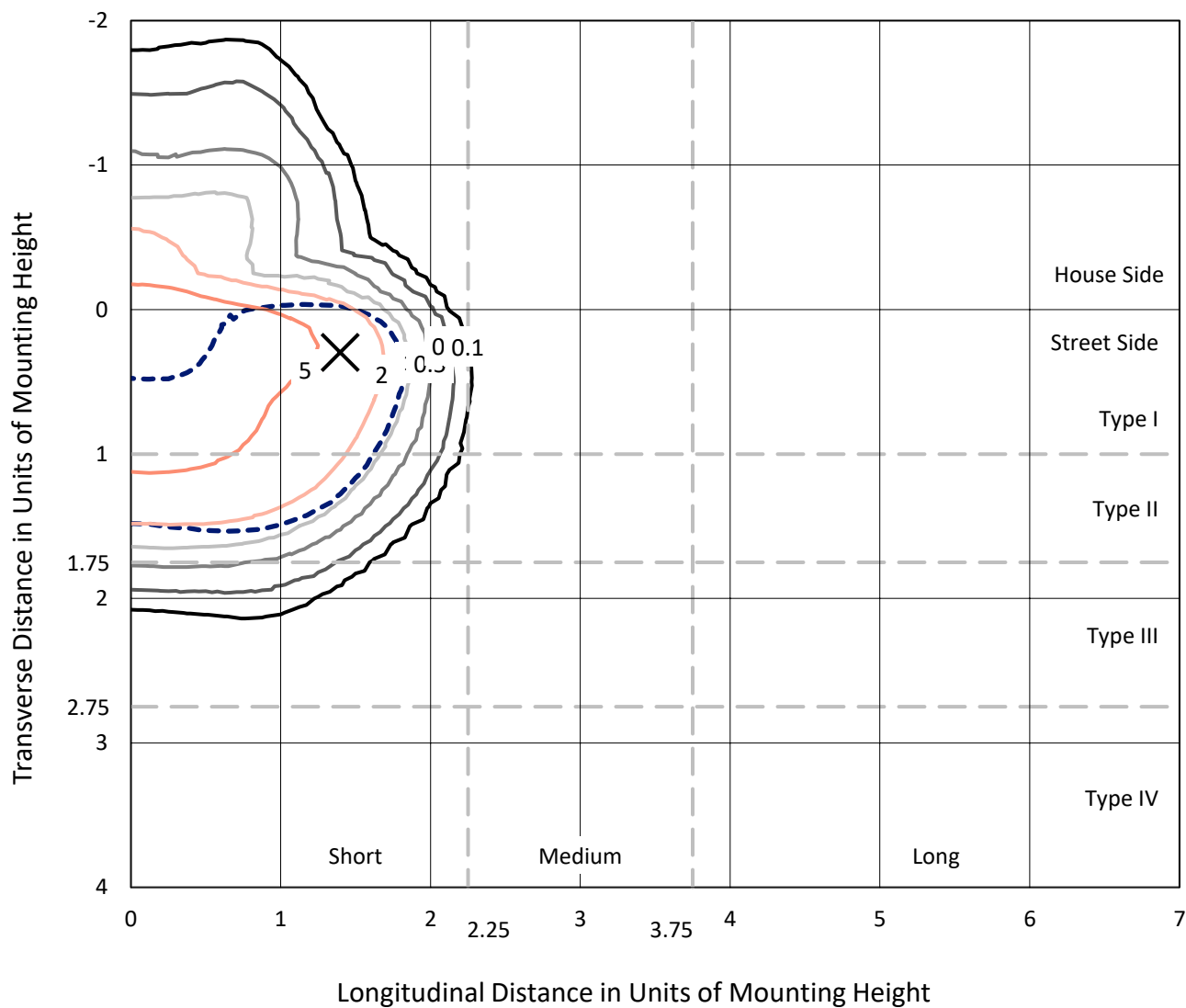
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

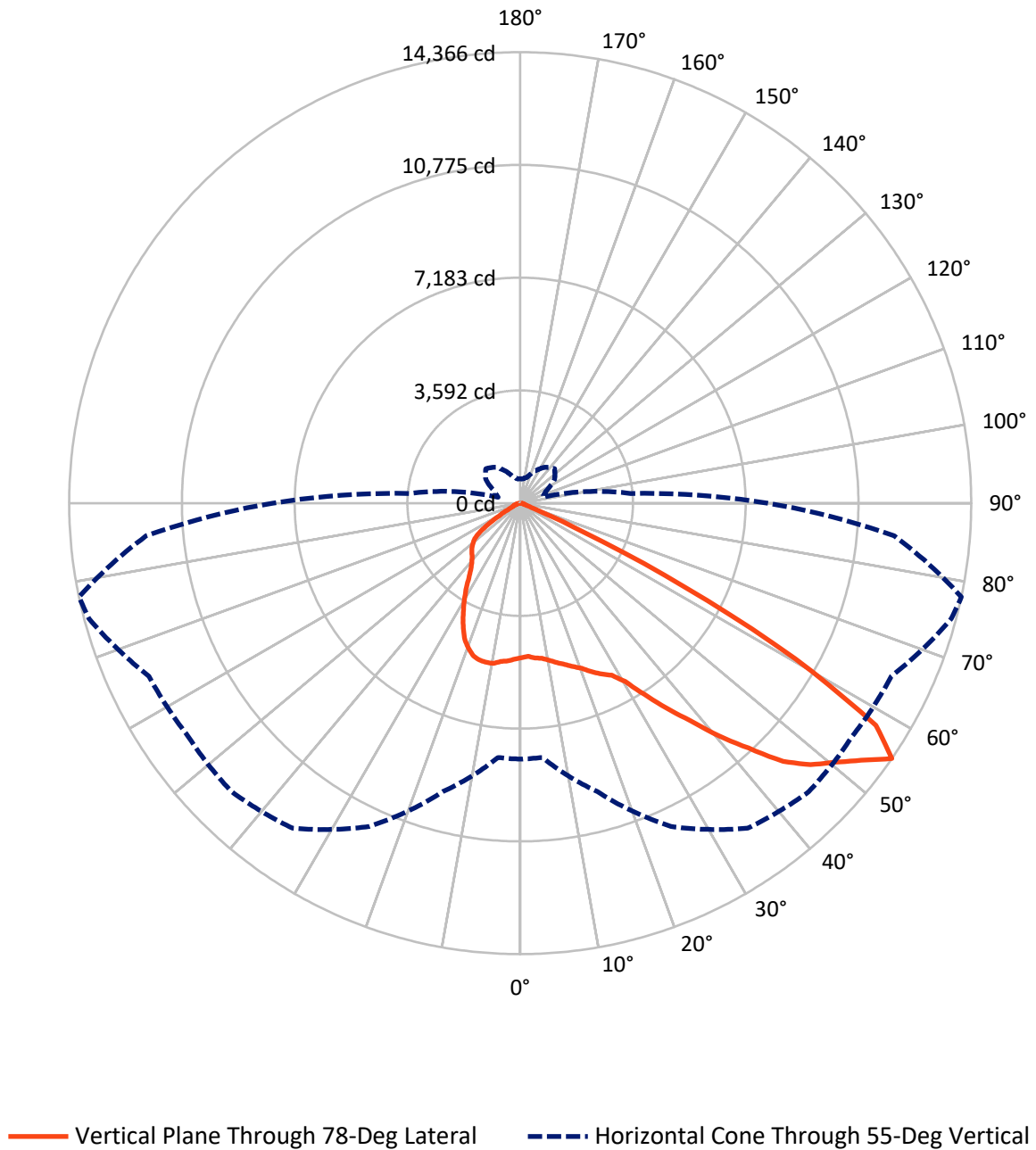


Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3557.6	0.0	3557.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	15596.3	0.0	15596.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	19154.0	0.0	19154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.1	2.3
10°-20°	1162.1	6.1
20°-30°	2037.0	10.6
30°-40°	3358.7	17.5
40°-50°	4887.3	25.5
50°-60°	5537.9	28.9
60°-70°	1583.4	8.3
70°-80°	122.9	0.6
80°-90°	25.6	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°	19154.0	100.0
0°-180°	19154.0	100.0

Coefficient of Utilization



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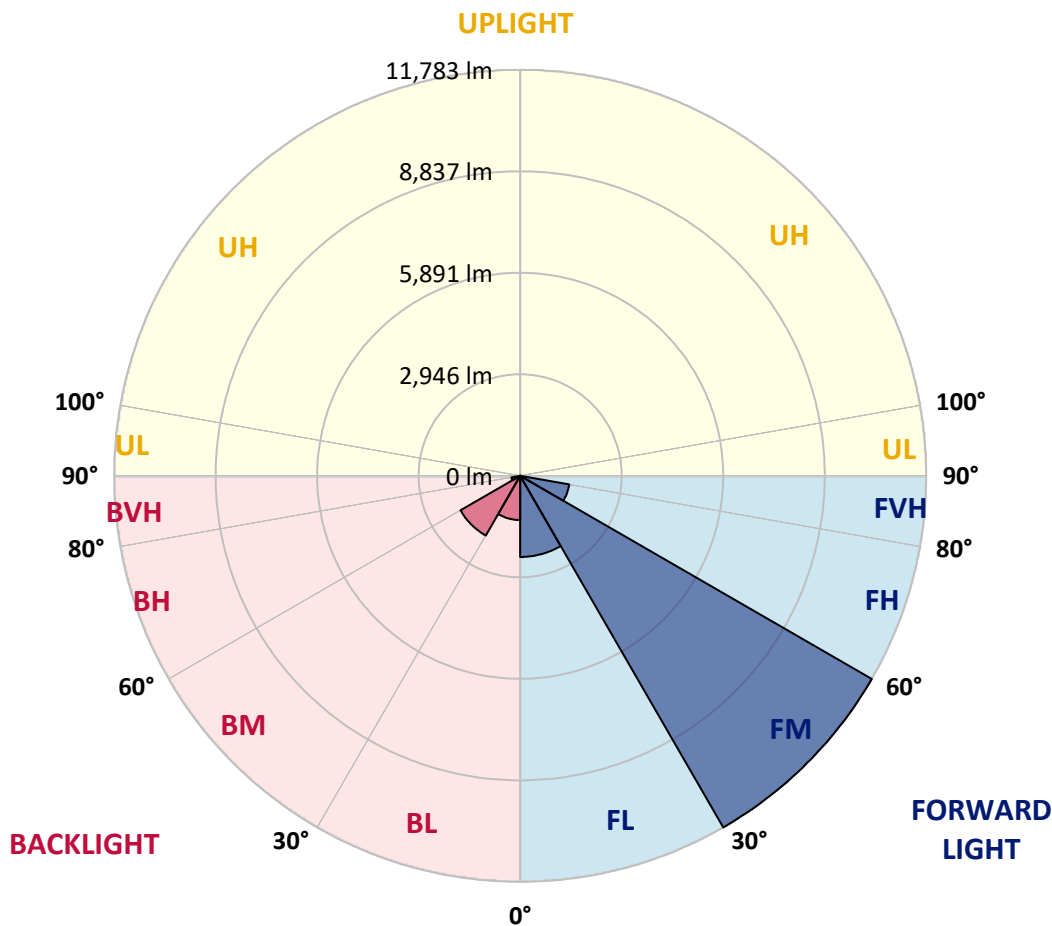
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2354.6	12.3			
FM	(30°-60°)	11782.7	61.5			
FH	(60°-80°)	1446.6	7.6			G1/1800
FVH	(80°-90°)	12.4	0.1			G1/100
BL	(0°-30°)	1283.6	6.7	B3/2500		
BM	(30°-60°)	2001.2	10.4	B2/2500		
BH	(60°-80°)	259.7	1.4	B1/500		G1/500
BVH	(80°-90°)	13.1	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°	4924.5	4924.5	4924.5	4924.5	4924.5	4924.5	4924.5	4924.5	4924.5	4924.5	4924.5
2.5°	4630.0	4674.5	4681.4	4736.2	4732.7	4825.2	4852.6	4856.0	4917.7	4886.8	4965.6
5°	4499.9	4475.9	4465.6	4561.5	4588.9	4671.1	4739.6	4780.7	4907.4	4951.9	5034.1
7.5°	4383.4	4383.4	4390.3	4475.9	4465.6	4571.8	4643.7	4770.4	4955.3	4993.0	5092.3
10°	4270.4	4229.3	4280.7	4369.7	4445.1	4493.0	4643.7	4763.6	4979.3	5088.9	5225.9
12.5°	4212.2	4232.7	4239.6	4304.7	4386.9	4530.7	4612.9	4811.5	5150.5	5215.6	5362.8
15°	4578.6	4537.5	4438.2	4380.0	4448.5	4517.0	4722.5	4924.5	5239.6	5332.0	5496.4
17.5°	5003.3	4969.0	4886.8	4729.3	4575.2	4701.9	4862.9	5047.8	5335.5	5472.4	5715.6
20°	5558.0	5503.3	5421.1	5112.9	4979.3	4842.3	5013.5	5232.7	5493.0	5616.3	5866.3
22.5°	6219.0	6219.0	6034.1	5660.8	5383.4	5253.3	5325.2	5451.9	5667.6	5835.4	6082.0
25°	6907.3	6886.8	6719.0	6332.0	5862.8	5708.7	5790.9	5880.0	5938.2	6030.6	6195.0
27.5°	7695.0	7575.1	7362.8	6934.7	6520.3	6222.4	6311.4	6232.7	6160.8	6208.7	6445.0
30°	8229.2	8304.5	8034.0	7623.1	7232.7	6900.5	6917.6	6849.1	6520.3	6588.8	6729.2
32.5°	8784.0	8831.9	8681.2	8455.2	8064.8	7677.8	7537.4	7479.2	7232.7	7263.5	7126.5
35°	9246.3	9338.8	9205.2	9105.9	8992.9	8681.2	8294.3	8482.6	8085.4	8010.0	7653.9
37.5°	9670.9	9643.5	9801.1	9698.3	9674.4	9455.2	9030.5	9068.2	8801.1	8784.0	8373.0
40°	10051.1	10057.9	10273.7	10321.6	10225.7	9835.3	9218.9	9516.8	9732.6	9753.1	9225.7
42.5°	10366.1	10458.6	10643.5	11030.5	10886.6	10236.0	9414.1	9739.4	10540.8	10667.5	10033.9
45°	10640.1	10828.4	11057.9	11403.8	11321.6	10804.5	9900.4	10198.3	11403.8	11735.9	10794.2
47.5°	10657.2	10903.8	11153.8	11667.4	11770.2	11109.2	10403.8	10924.3	12088.7	12448.2	11349.0
50°	10588.7	10718.8	11218.8	11777.0	12009.9	11605.8	11109.2	11533.9	12753.0	12979.0	11629.8
52.5°	9777.1	9876.4	10879.8	11879.8	12441.4	12167.4	12044.1	12383.2	13431.1	13598.9	11893.5
55°	8150.4	8133.3	9513.4	11362.7	12640.0	12999.6	12924.3	13044.1	14215.3	14366.0	11958.5
57.5°	5575.2	5886.8	7078.5	9462.0	11424.3	12804.4	12883.2	12684.5	13301.0	13359.2	10424.3
60°	3006.8	3136.9	4095.8	6314.9	8698.4	10434.6	10640.1	10280.5	10232.6	10068.2	7441.5
62.5°	1195.2	1260.2	1804.7	3126.6	4739.6	6342.3	6784.0	6636.8	6321.7	5890.2	3852.6
65°	568.5	609.6	897.2	1462.3	2102.7	2643.8	3085.5	3222.5	2376.6	2140.3	1270.5
67.5°	387.0	417.8	654.1	835.6	750.0	784.2	1020.5	948.6	558.2	476.0	352.7
70°	294.5	315.1	524.0	568.5	335.6	236.3	263.7	246.6	229.4	232.9	229.4
72.5°	208.9	226.0	383.5	335.6	147.3	109.6	140.4	167.8	167.8	167.8	164.4
75°	126.7	143.8	222.6	130.1	58.2	58.2	89.0	113.0	119.9	123.3	116.4
77.5°	65.1	82.2	75.3	37.7	37.7	44.5	65.1	78.8	85.6	85.6	82.2
80°	13.7	13.7	13.7	20.5	37.7	47.9	65.1	71.9	82.2	82.2	75.3
82.5°	0.0	3.4	10.3	20.5	34.2	44.5	61.6	71.9	82.2	85.6	78.8
85°	0.0	3.4	6.8	13.7	24.0	27.4	24.0	20.5	20.5	20.5	20.5
87.5°	0.0	0.0	3.4	3.4	3.4	6.8	6.8	6.8	6.8	6.8	6.8
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°	4924.5	4924.5	4924.5	4924.5	4924.5	4924.5	4924.5	4924.5	4924.5	4924.5	4924.5
2.5°	4972.4	4982.7	4965.6	4962.2	4948.5	4989.6	4890.3	4866.3	4927.9	4869.7	4883.4
5°	5037.5	5061.5	5030.7	4979.3	4904.0	4787.5	4688.2	4558.1	4496.4	4451.9	4445.1
7.5°	5085.5	5102.6	5071.8	4907.4	4681.4	4386.9	4167.7	4006.7	3880.0	3842.3	3780.7
10°	5280.7	5284.1	5130.0	4767.0	4325.2	3938.2	3602.6	3356.1	3229.4	3150.6	3116.3
12.5°	5410.8	5403.9	5092.3	4489.6	3900.6	3386.9	3003.3	2705.4	2589.0	2551.3	2527.3
15°	5575.2	5537.5	5003.3	4205.3	3352.6	2797.9	2452.0	2246.5	2236.2	2212.3	2236.2
17.5°	5705.3	5599.1	4873.1	3688.2	2828.7	2304.7	2078.7	2092.4	2119.8	2143.8	2147.2
20°	5917.6	5698.5	4575.2	3236.2	2342.4	1976.0	1972.5	2034.2	2102.7	2130.1	2157.5
22.5°	6078.6	5739.5	4256.7	2753.3	1945.1	1842.4	1900.6	1993.1	2044.5	2071.9	2112.9
25°	6136.8	5626.5	3832.1	2270.5	1753.4	1780.8	1869.8	1931.4	1996.5	2027.3	2010.2
27.5°	6195.0	5568.3	3325.2	1869.8	1650.6	1739.7	1815.0	1876.7	1897.2	1938.3	1965.7
30°	6335.4	5366.3	2869.8	1616.4	1599.3	1712.3	1767.1	1787.6	1842.4	1866.4	1866.4
32.5°	6448.4	5287.5	2386.9	1496.5	1592.4	1726.0	1732.8	1732.8	1739.7	1722.5	1715.7
35°	6681.3	5017.0	1955.4	1424.6	1589.0	1729.4	1746.5	1688.3	1530.8	1469.1	1452.0
37.5°	6969.0	4842.3	1636.9	1407.5	1613.0	1770.5	1797.9	1578.7	1373.2	1273.9	1256.8
40°	7318.3	4719.0	1428.0	1400.6	1667.8	1866.4	1784.2	1493.1	1226.0	1082.2	1075.3
42.5°	7725.8	4606.0	1287.6	1397.2	1736.2	1965.7	1770.5	1421.2	1075.3	979.4	993.1
45°	8051.1	4544.4	1191.7	1373.2	1760.2	2023.9	1780.8	1294.5	1013.7	952.0	958.9
47.5°	8304.5	4414.2	1113.0	1332.2	1756.8	2044.5	1688.3	1243.1	982.8	1000.0	1017.1
50°	8311.4	4239.6	1013.7	1243.1	1705.4	2006.8	1582.1	1195.2	976.0	1047.9	1082.2
52.5°	8218.9	3993.0	907.5	1116.4	1585.6	1876.7	1486.3	1174.6	945.2	938.3	979.4
55°	7890.2	3530.7	729.4	904.1	1339.0	1547.9	1400.6	1137.0	852.7	773.9	780.8
57.5°	6376.5	2530.7	537.7	647.2	948.6	1133.5	1263.7	1119.8	767.1	657.5	660.9
60°	3948.5	1434.9	393.8	441.8	585.6	688.3	1023.9	1041.1	684.9	554.8	547.9
62.5°	2027.3	708.9	304.8	311.6	359.6	404.1	702.0	873.3	619.8	527.4	527.4
65°	678.1	349.3	267.1	239.7	239.7	250.0	424.6	606.1	524.0	441.8	441.8
67.5°	291.1	260.3	232.9	208.9	191.8	181.5	239.7	352.7	390.4	335.6	321.9
70°	226.0	219.2	202.0	174.7	150.7	137.0	140.4	181.5	222.6	215.7	208.9
72.5°	167.8	167.8	161.0	137.0	116.4	99.3	92.5	95.9	106.2	109.6	113.0
75°	116.4	119.9	119.9	106.2	85.6	71.9	61.6	51.4	41.1	34.2	30.8
77.5°	78.8	82.2	89.0	78.8	65.1	47.9	37.7	27.4	17.1	6.8	6.8
80°	68.5	78.8	85.6	78.8	68.5	51.4	37.7	20.5	10.3	0.0	0.0
82.5°	71.9	78.8	89.0	75.3	65.1	47.9	37.7	24.0	10.3	3.4	0.0
85°	17.1	17.1	20.5	24.0	30.8	34.2	27.4	17.1	10.3	3.4	0.0
87.5°	6.8	6.8	6.8	6.8	6.8	3.4	3.4	3.4	3.4	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)