

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: P534199

Luminaire Tested: **GALN-SA9C-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534199
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-SA9C-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 30802 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 481
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

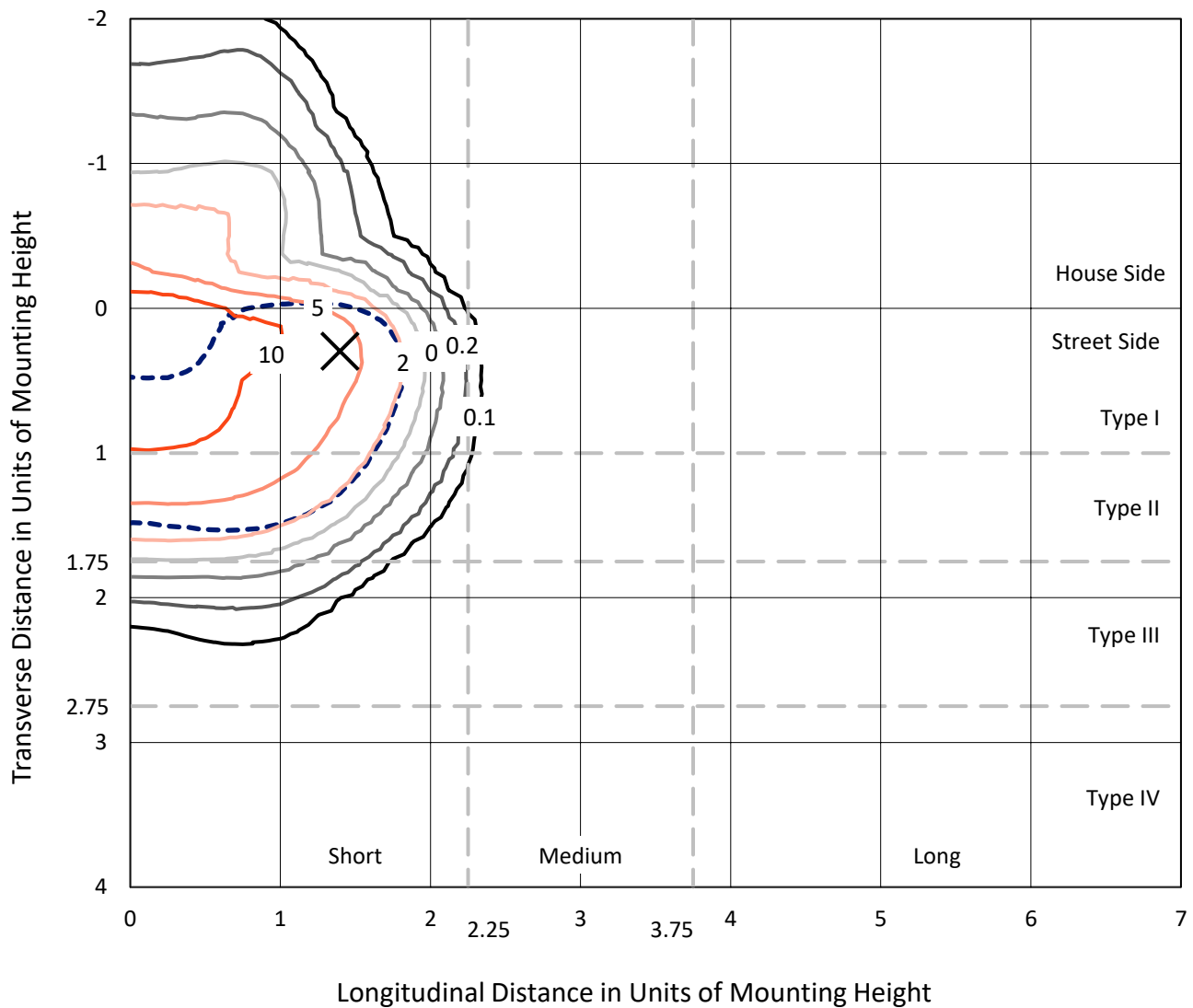


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

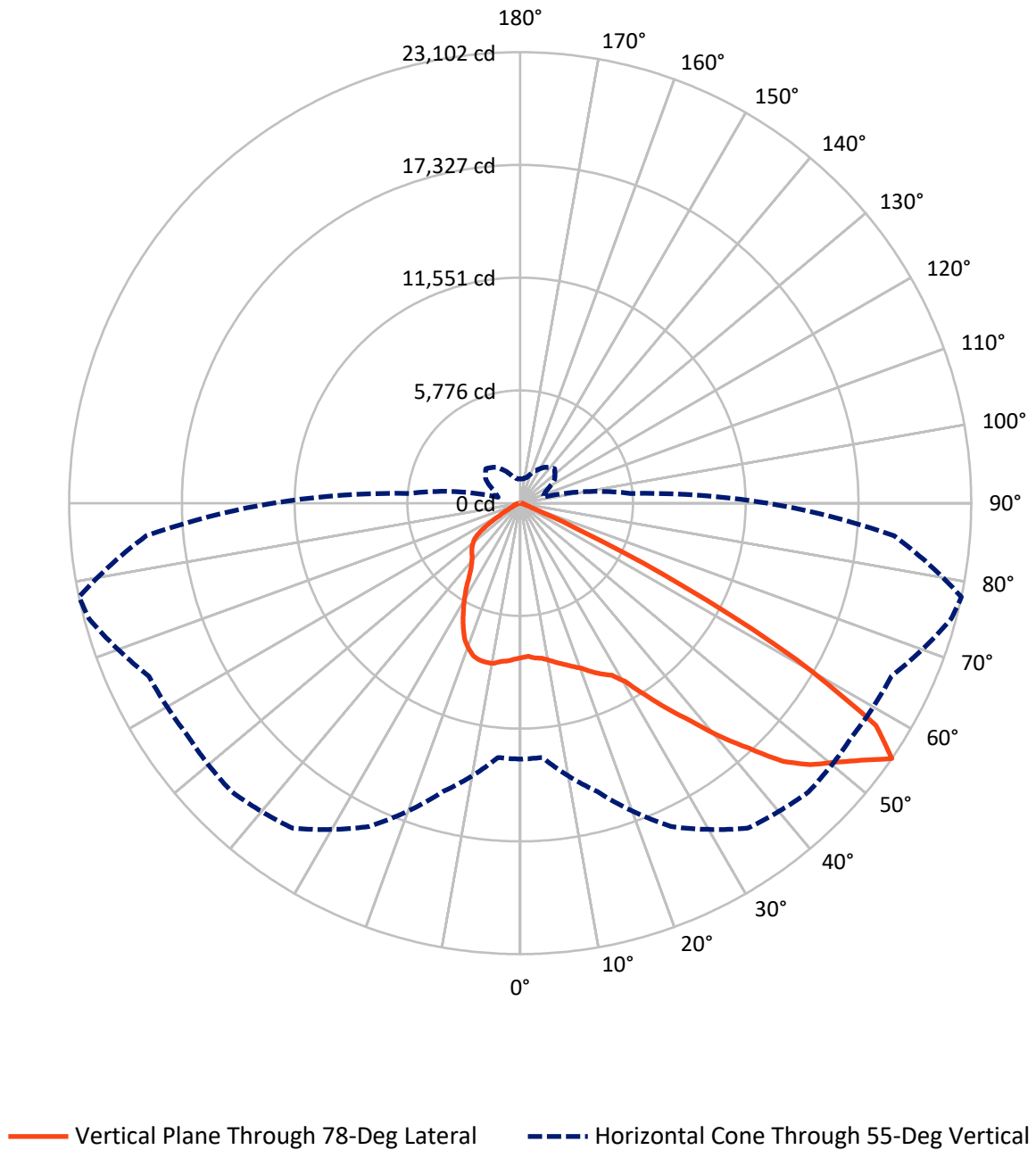


Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5721.1	0.0	5721.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	25080.9	0.0	25080.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	30802.0	0.0	30802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.1	2.3
10°-20°	1868.8	6.1
20°-30°	3275.7	10.6
30°-40°	5401.2	17.5
40°-50°	7859.5	25.5
50°-60°	8905.6	28.9
60°-70°	2546.3	8.3
70°-80°	197.7	0.6
80°-90°	41.1	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°	30802.0	100.0
0°-180°	30802.0	100.0

Coefficient of Utilization



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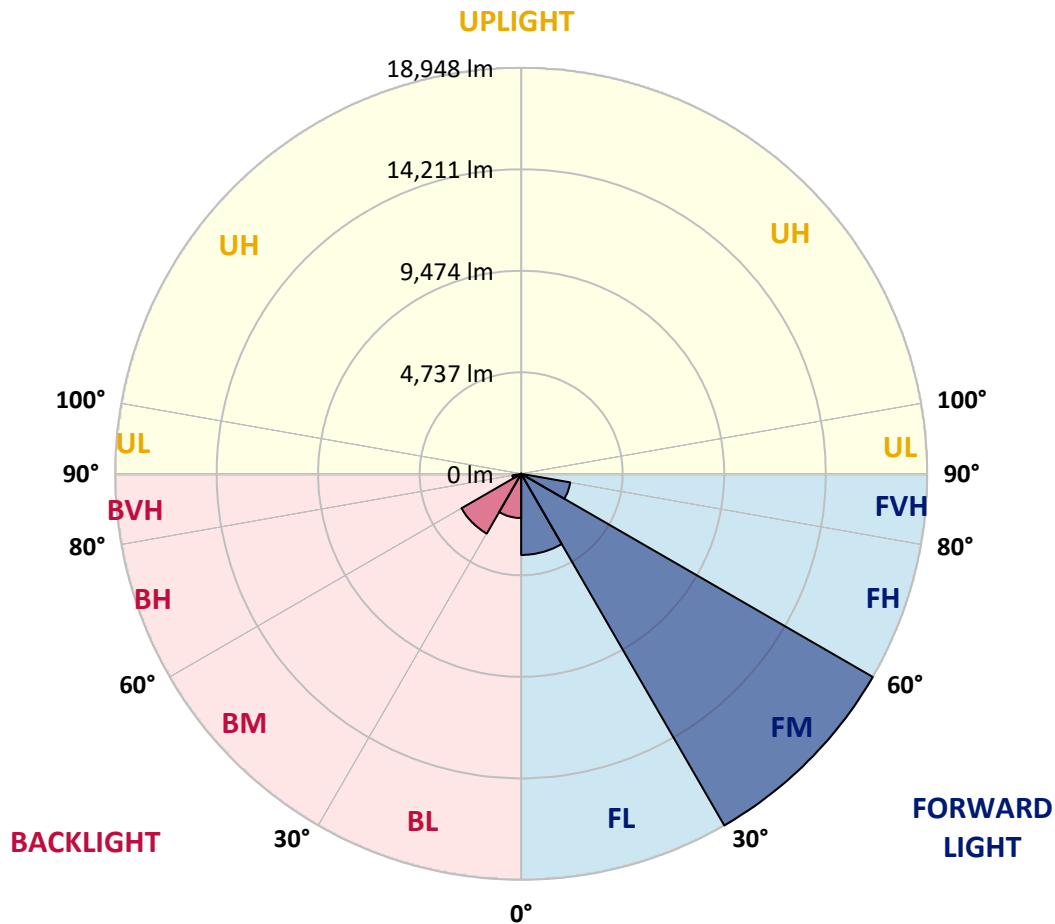
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3786.5	12.3			
FM	(30°-60°)	18948.0	61.5			
FH	(60°-80°)	2326.4	7.6			G2/5000
FVH	(80°-90°)	20.0	0.1			G1/100
BL	(0°-30°)	2064.2	6.7	B3/2500		
BM	(30°-60°)	3218.2	10.4	B3/5000		
BH	(60°-80°)	417.6	1.4	B1/500		G1/500
BVH	(80°-90°)	21.1	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	7919.2	7919.2	7919.2	7919.2	7919.2	7919.2	7919.2	7919.2	7919.2	7919.2	7919.2
2.5°	7445.6	7517.2	7528.2	7616.3	7610.8	7759.5	7803.6	7809.1	7908.2	7858.6	7985.3
5°	7236.3	7197.8	7181.3	7335.5	7379.5	7511.7	7621.8	7687.9	7891.7	7963.3	8095.4
7.5°	7049.1	7049.1	7060.1	7197.8	7181.3	7352.0	7467.6	7671.4	7968.8	8029.4	8189.1
10°	6867.4	6801.3	6883.9	7027.1	7148.2	7225.3	7467.6	7660.4	8007.3	8183.6	8403.8
12.5°	6773.7	6806.8	6817.8	6922.4	7054.6	7285.9	7418.1	7737.5	8282.7	8387.3	8624.1
15°	7363.0	7296.9	7137.2	7043.6	7153.7	7263.9	7594.3	7919.2	8425.9	8574.6	8838.9
17.5°	8045.9	7990.8	7858.6	7605.3	7357.5	7561.3	7820.1	8117.5	8580.1	8800.3	9191.4
20°	8938.0	8849.9	8717.7	8222.1	8007.3	7787.0	8062.4	8414.9	8833.4	9031.6	9433.7
22.5°	10000.9	10000.9	9703.5	9103.2	8657.2	8447.9	8563.5	8767.3	9114.3	9384.1	9780.6
25°	11107.8	11074.8	10804.9	10182.6	9428.2	9180.3	9312.5	9455.7	9549.3	9698.0	9962.3
27.5°	12374.5	12181.7	11840.3	11151.9	10485.5	10006.4	10149.6	10022.9	9907.3	9984.4	10364.4
30°	13233.6	13354.7	12919.7	12258.8	11631.0	11096.8	11124.3	11014.2	10485.5	10595.7	10821.5
32.5°	14125.7	14202.8	13960.5	13597.0	12969.2	12346.9	12121.1	12027.5	11631.0	11680.6	11460.3
35°	14869.2	15017.9	14803.1	14643.4	14461.6	13960.5	13338.2	13641.1	13002.3	12881.1	12308.4
37.5°	15552.1	15508.0	15761.3	15596.1	15557.6	15205.1	14522.2	14582.8	14153.3	14125.7	13464.9
40°	16163.3	16174.4	16521.3	16598.4	16444.2	15816.4	14825.1	15304.2	15651.2	15684.2	14836.1
42.5°	16670.0	16818.7	17116.1	17738.4	17507.1	16460.7	15139.0	15662.2	16950.9	17154.6	16135.8
45°	17110.6	17413.5	17782.4	18338.6	18206.5	17374.9	15921.0	16400.1	18338.6	18872.8	17358.4
47.5°	17138.1	17534.6	17936.6	18762.7	18927.9	17865.0	16730.6	17567.7	19440.1	20018.3	18250.5
50°	17028.0	17237.2	18041.3	18938.9	19313.4	18663.6	17865.0	18547.9	20508.4	20871.9	18702.1
52.5°	15722.8	15882.5	17496.1	19104.1	20007.3	19566.7	19368.5	19913.7	21598.9	21868.7	19126.2
55°	13106.9	13079.4	15298.7	18272.6	20326.7	20905.0	20783.8	20976.6	22860.0	23102.3	19230.8
57.5°	8965.6	9466.7	11383.2	15216.1	18371.7	20591.1	20717.7	20398.3	21389.6	21483.2	16763.6
60°	4835.2	5044.5	6586.5	10155.1	13988.0	16780.1	17110.6	16532.3	16455.2	16190.9	11966.9
62.5°	1922.0	2026.6	2902.2	5028.0	7621.8	10199.2	10909.6	10672.8	10166.1	9472.2	6195.5
65°	914.2	980.3	1442.9	2351.5	3381.4	4251.5	4961.9	5182.2	3821.9	3441.9	2043.1
67.5°	622.3	671.9	1051.9	1343.7	1206.1	1261.1	1641.1	1525.5	897.7	765.5	567.2
70°	473.6	506.7	842.6	914.2	539.7	380.0	424.0	396.5	369.0	374.5	369.0
72.5°	335.9	363.5	616.8	539.7	236.8	176.2	225.8	269.8	269.8	269.8	264.3
75°	203.8	231.3	358.0	209.3	93.6	93.6	143.2	181.7	192.7	198.3	187.2
77.5°	104.6	132.2	121.2	60.6	60.6	71.6	104.6	126.7	137.7	137.7	132.2
80°	22.0	22.0	22.0	33.0	60.6	77.1	104.6	115.6	132.2	132.2	121.2
82.5°	0.0	5.5	16.5	33.0	55.1	71.6	99.1	115.6	132.2	137.7	126.7
85°	0.0	5.5	11.0	22.0	38.5	44.1	38.5	33.0	33.0	33.0	33.0
87.5°	0.0	0.0	5.5	5.5	5.5	11.0	11.0	11.0	11.0	11.0	11.0
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°	7919.2	7919.2	7919.2	7919.2	7919.2	7919.2	7919.2	7919.2	7919.2	7919.2	7919.2
2.5°	7996.3	8012.8	7985.3	7979.8	7957.8	8023.8	7864.1	7825.6	7924.7	7831.1	7853.1
5°	8100.9	8139.5	8089.9	8007.3	7886.2	7698.9	7539.2	7330.0	7230.8	7159.2	7148.2
7.5°	8178.0	8205.6	8156.0	7891.7	7528.2	7054.6	6702.1	6443.3	6239.5	6179.0	6079.8
10°	8492.0	8497.5	8249.6	7665.9	6955.5	6333.2	5793.5	5397.0	5193.2	5066.5	5011.5
12.5°	8701.2	8690.2	8189.1	7219.8	6272.6	5446.5	4829.7	4350.6	4163.4	4102.8	4064.2
15°	8965.6	8905.0	8045.9	6762.7	5391.5	4499.3	3943.1	3612.7	3596.1	3557.6	3596.1
17.5°	9174.8	9004.1	7836.6	5931.1	4548.9	3706.3	3342.8	3364.8	3408.9	3447.4	3453.0
20°	9516.3	9163.8	7357.5	5204.2	3766.9	3177.6	3172.1	3271.2	3381.4	3425.4	3469.5
22.5°	9775.1	9229.9	6845.3	4427.7	3128.0	2962.8	3056.4	3205.1	3287.7	3331.8	3397.9
25°	9868.7	9048.2	6162.4	3651.2	2819.6	2863.7	3006.9	3106.0	3210.6	3260.2	3232.7
27.5°	9962.3	8954.5	5347.4	3006.9	2654.4	2797.6	2918.8	3017.9	3050.9	3117.0	3161.1
30°	10188.1	8629.6	4615.0	2599.4	2571.8	2753.6	2841.7	2874.7	2962.8	3001.4	3001.4
32.5°	10369.9	8503.0	3838.4	2406.6	2560.8	2775.6	2786.6	2786.6	2797.6	2770.1	2759.1
35°	10744.4	8067.9	3144.6	2291.0	2555.3	2781.1	2808.6	2715.0	2461.7	2362.5	2335.0
37.5°	11207.0	7787.0	2632.4	2263.4	2593.8	2847.2	2891.2	2538.8	2208.3	2048.6	2021.1
40°	11768.7	7588.8	2296.5	2252.4	2682.0	3001.4	2869.2	2401.1	1971.5	1740.2	1729.2
42.5°	12424.0	7407.1	2070.7	2246.9	2792.1	3161.1	2847.2	2285.4	1729.2	1575.0	1597.1
45°	12947.2	7307.9	1916.5	2208.3	2830.7	3254.7	2863.7	2081.7	1630.1	1531.0	1542.0
47.5°	13354.7	7098.7	1789.8	2142.3	2825.1	3287.7	2715.0	1999.1	1580.5	1608.1	1635.6
50°	13365.7	6817.8	1630.1	1999.1	2742.5	3227.2	2544.3	1922.0	1569.5	1685.2	1740.2
52.5°	13217.0	6421.3	1459.4	1795.3	2549.8	3017.9	2390.1	1888.9	1520.0	1508.9	1575.0
55°	12688.4	5677.8	1173.0	1453.9	2153.3	2489.2	2252.4	1828.4	1371.3	1244.6	1255.6
57.5°	10254.2	4069.7	864.6	1040.8	1525.5	1822.9	2032.1	1800.8	1233.6	1057.4	1062.9
60°	6349.7	2307.5	633.3	710.4	941.7	1106.9	1646.6	1674.2	1101.4	892.2	881.1
62.5°	3260.2	1140.0	490.1	501.1	578.2	649.8	1129.0	1404.3	996.8	848.1	848.1
65°	1090.4	561.7	429.6	385.5	385.5	402.0	682.9	974.8	842.6	710.4	710.4
67.5°	468.1	418.5	374.5	335.9	308.4	291.9	385.5	567.2	627.8	539.7	517.7
70°	363.5	352.5	324.9	280.9	242.3	220.3	225.8	291.9	358.0	346.9	335.9
72.5°	269.8	269.8	258.8	220.3	187.2	159.7	148.7	154.2	170.7	176.2	181.7
75°	187.2	192.7	192.7	170.7	137.7	115.6	99.1	82.6	66.1	55.1	49.6
77.5°	126.7	132.2	143.2	126.7	104.6	77.1	60.6	44.1	27.5	11.0	11.0
80°	110.1	126.7	137.7	126.7	110.1	82.6	60.6	33.0	16.5	0.0	0.0
82.5°	115.6	126.7	143.2	121.2	104.6	77.1	60.6	38.5	16.5	5.5	0.0
85°	27.5	27.5	33.0	38.5	49.6	55.1	44.1	27.5	16.5	5.5	0.0
87.5°	11.0	11.0	11.0	11.0	11.0	5.5	5.5	5.5	5.5	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)