

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: P534196

Luminaire Tested: **GALN-SA9C-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
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-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44505 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

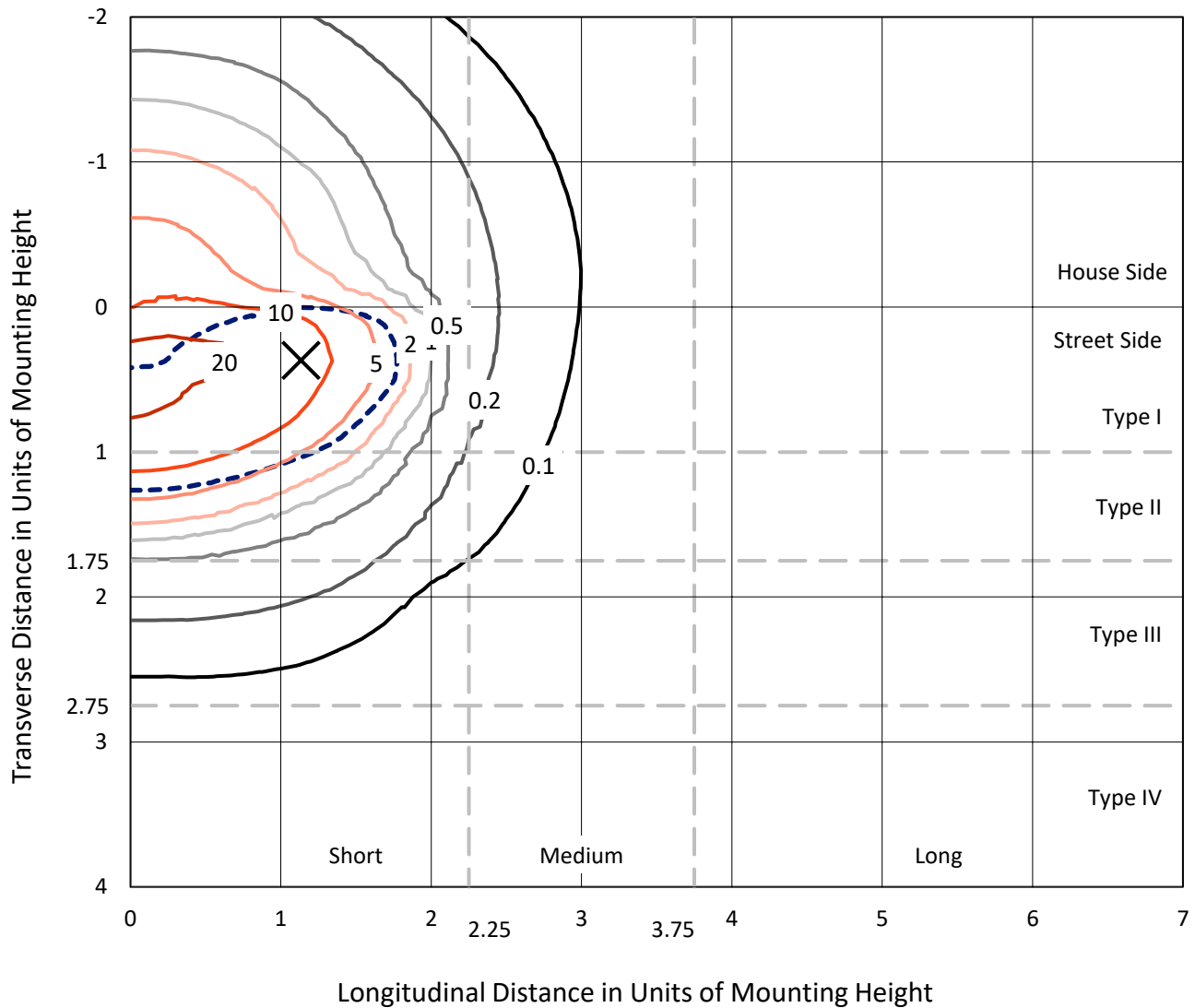
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

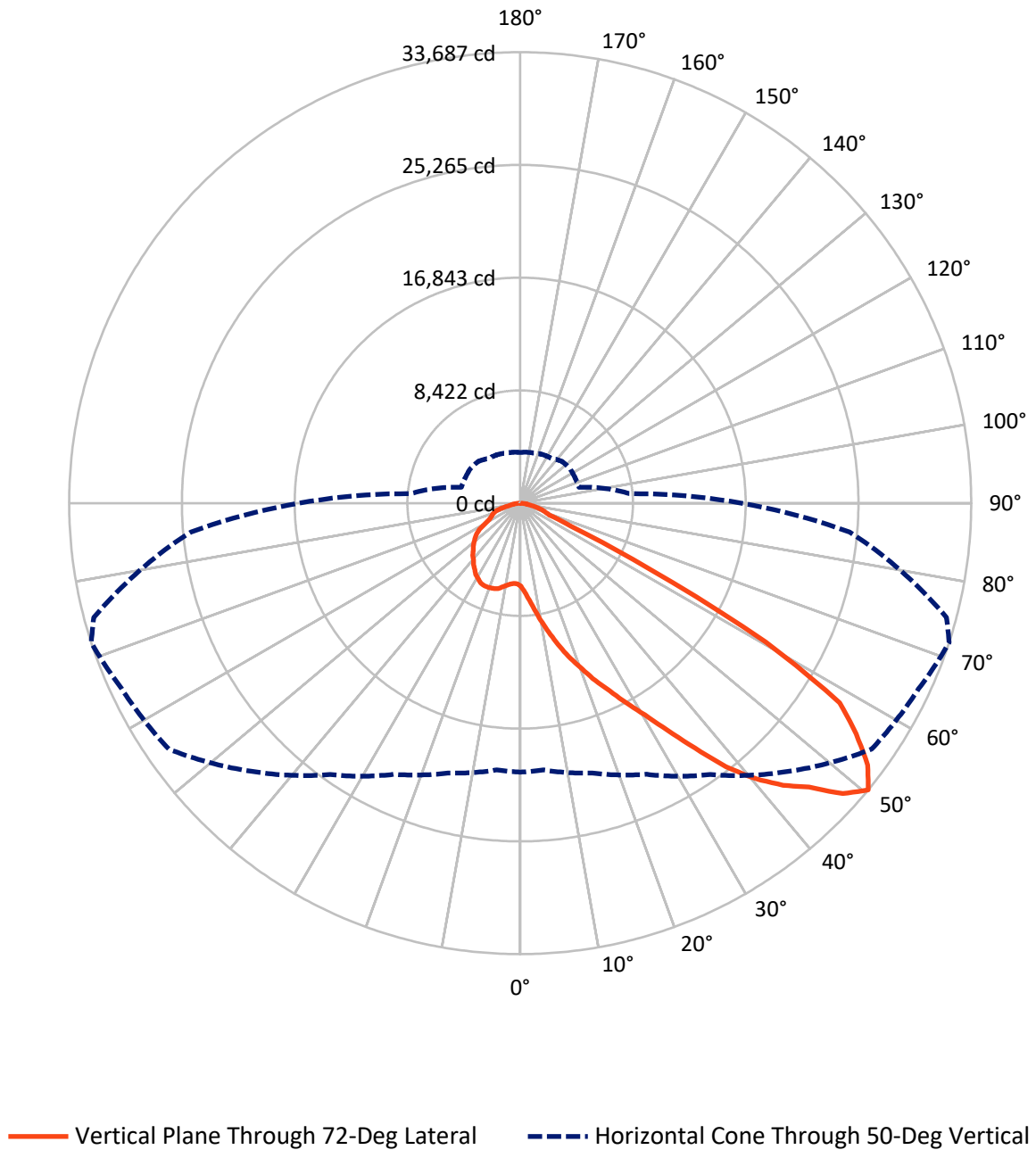
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.2 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	10196.3	0.0	10196.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	34308.6	0.0	34308.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	44505.0	0.0	44505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.7	1.6
10°-20°	2724.3	6.1
20°-30°	5282.2	11.9
30°-40°	8750.8	19.7
40°-50°	12244.3	27.5
50°-60°	10329.6	23.2
60°-70°	3148.4	7.1
70°-80°	1104.6	2.5
80°-90°	192.0	0.4
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°	44505.0	100.0
0°-180°	44505.0	100.0

Coefficient of Utilization



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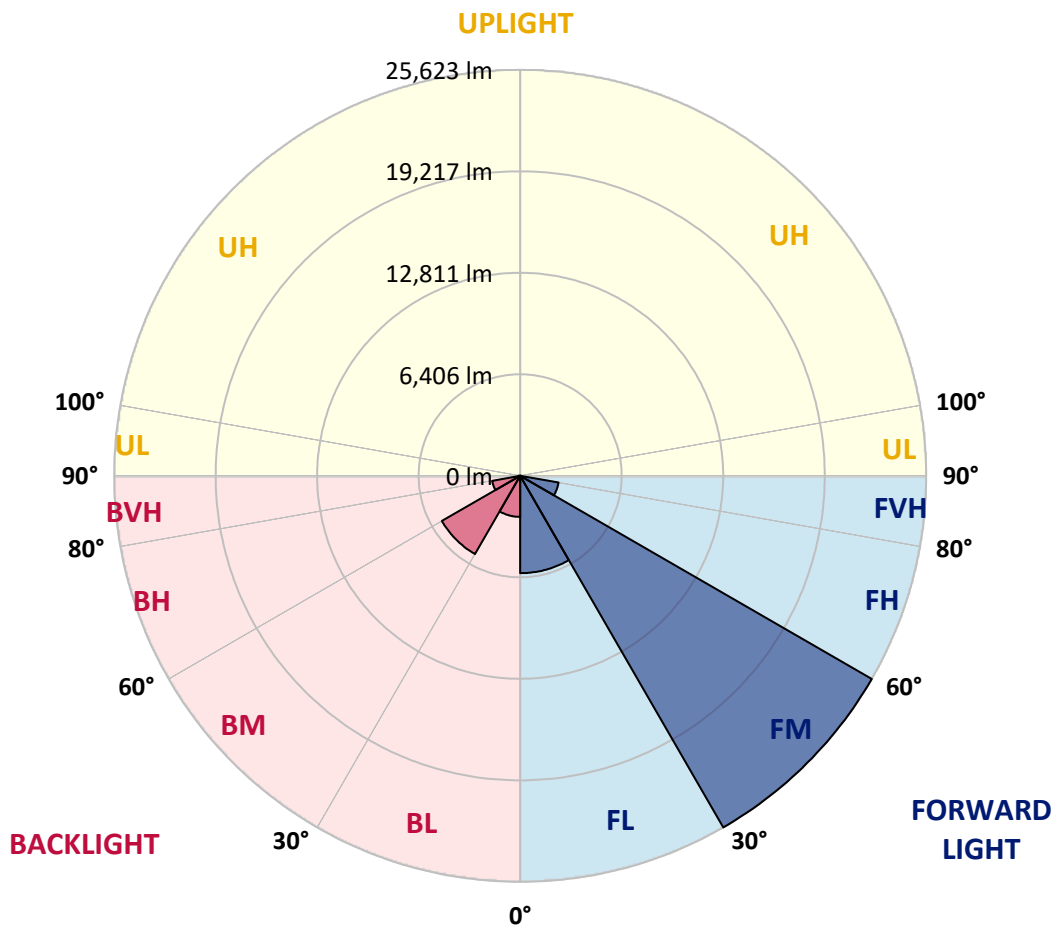
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6143.3	13.8			
FM	(30°-60°)	25622.7	57.6			
FH	(60°-80°)	2456.6	5.5			G2/5000
FVH	(80°-90°)	86.0	0.2			G1/100
BL	(0°-30°)	2592.0	5.8	B4/5000		
BM	(30°-60°)	5702.0	12.8	B4/8500		
BH	(60°-80°)	1796.4	4.0	B3/2500		G3/2500
BVH	(80°-90°)	106.0	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6195.5	6195.5	6195.5	6195.5	6195.5	6195.5	6195.5	6195.5	6195.5	6195.5	6195.5
2.5°	7968.8	7919.2	7770.5	7720.9	7544.7	7225.3	7115.2	6790.2	6652.6	6525.9	6377.2
5°	10078.0	9846.7	9830.2	9549.3	9141.8	8905.0	8200.1	7726.4	7291.4	7071.1	6663.6
7.5°	11421.7	11427.2	11427.2	11195.9	10871.0	10270.7	9637.4	8783.8	8128.5	7803.5	7109.7
10°	12699.3	12589.2	12528.6	12506.6	12286.3	11702.6	11025.2	9967.8	9070.2	8690.2	7445.6
12.5°	13602.5	13508.9	13646.6	13575.0	13415.3	13035.3	12396.5	11190.4	10067.0	9554.8	7985.3
15°	14032.1	14098.1	14208.3	14406.5	14335.0	14191.8	13486.9	12446.0	11140.8	10562.6	8464.4
17.5°	14692.9	14511.2	14643.4	14891.2	15089.4	15023.3	14621.3	13354.7	12203.7	11493.3	9108.7
20°	15155.5	15050.9	15117.0	15403.3	15552.0	15926.5	15717.2	14544.2	13222.5	12473.6	9868.7
22.5°	16477.2	16323.0	16108.2	16152.3	16207.4	16471.7	16521.3	15849.4	14406.5	13613.5	10590.1
25°	18107.3	17964.1	17710.8	17452.0	17292.3	17242.7	17413.4	16873.7	15541.0	14720.4	11366.6
27.5°	19902.6	19660.3	19500.6	18966.4	18536.9	18470.8	18388.2	18096.3	16884.7	15998.1	12242.3
30°	21648.4	21455.6	21240.8	20387.2	19941.2	19869.6	19462.1	19544.7	18344.1	17358.3	13233.5
32.5°	22970.1	22986.6	22496.5	21852.1	21433.6	21053.6	20904.9	21141.7	20216.5	19423.5	14340.5
35°	24038.4	24088.0	23619.9	23036.2	22584.6	22848.9	22782.8	22893.0	22452.4	21483.2	15629.1
37.5°	25079.3	24831.5	24330.3	24049.5	23812.7	24247.7	24809.4	24903.1	24985.7	23845.7	17127.0
40°	25250.0	25272.0	24980.2	25178.4	24881.0	25536.4	26841.6	26720.4	27056.3	26059.5	18751.6
42.5°	25007.7	25057.3	25172.9	25453.8	26169.7	26957.2	28895.7	28400.1	28807.6	27920.9	20332.2
45°	24611.2	24407.4	24550.6	25619.0	26858.1	28609.3	30773.6	30388.1	30255.9	29512.5	22215.6
47.5°	22716.7	22926.0	23372.1	24688.3	26549.7	28895.7	32106.3	32018.2	32414.7	31891.6	23928.3
50°	20089.9	20007.3	20866.4	22347.8	24748.9	28334.0	32034.7	32833.3	33686.9	32959.9	24693.8
52.5°	15045.4	15485.9	16223.9	18063.3	21488.7	25272.0	30470.7	31803.4	32497.3	32343.1	24077.0
55°	9510.7	9642.9	10089.0	12275.3	15359.3	20282.6	26120.1	29209.6	30448.7	31026.9	23509.8
57.5°	4620.4	4372.6	4917.8	6674.6	8871.9	13641.1	20144.9	25442.8	28135.7	29182.1	22276.2
60°	2412.1	2505.7	2720.5	3348.3	4587.4	7082.1	12556.2	16956.3	21070.1	22678.2	16884.7
62.5°	1999.1	2032.1	2175.3	2489.2	3050.9	4075.2	6410.3	8266.1	10744.3	12192.7	9604.4
65°	1696.2	1712.7	1866.9	2076.2	2434.1	2869.2	3298.7	3452.9	4179.9	4290.0	3414.4
67.5°	1415.3	1431.8	1597.1	1795.3	2026.6	2142.3	2252.4	2241.4	2324.0	2290.9	2285.4
70°	1090.4	1106.9	1277.6	1486.9	1602.6	1536.5	1877.9	1955.0	1988.1	2015.6	2059.7
72.5°	787.5	820.6	952.7	1101.4	1040.8	1195.0	1547.5	1663.1	1707.2	1723.7	1778.8
75°	572.7	583.8	616.8	572.7	660.9	831.6	1090.4	1233.6	1288.7	1305.2	1387.8
77.5°	253.3	258.8	264.3	330.4	424.0	517.7	649.8	765.5	842.6	864.6	886.6
80°	132.2	137.7	170.7	225.8	302.9	380.0	473.6	539.7	589.3	594.8	616.8
82.5°	82.6	88.1	121.2	159.7	214.8	280.9	346.9	402.0	440.6	446.1	451.6
85°	38.5	49.6	71.6	99.1	143.2	181.7	187.2	159.7	170.7	176.2	165.2
87.5°	11.0	16.5	22.0	16.5	22.0	22.0	27.5	33.0	33.0	33.0	38.5
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°	6195.5	6195.5	6195.5	6195.5	6195.5	6195.5	6195.5	6195.5	6195.5	6195.5	6195.5
2.5°	6294.6	6245.0	6052.3	5980.7	5793.5	5826.5	5727.4	5721.9	5699.8	5694.3	5688.8
5°	6448.8	6294.6	6063.3	5887.1	5782.4	5771.4	5699.8	5699.8	5721.9	5738.4	5699.8
7.5°	6702.1	6525.9	6134.9	5969.7	5876.1	5859.5	5810.0	5771.4	5821.0	5804.5	5760.4
10°	6994.0	6685.6	6272.6	6129.4	5975.2	5936.6	5936.6	5953.2	5870.6	5898.1	5854.0
12.5°	7318.9	6905.9	6448.8	6283.6	6101.9	6079.8	6068.8	5947.7	5991.7	5969.7	5859.5
15°	7732.0	7159.2	6674.6	6393.7	6239.5	6140.4	5997.2	5975.2	5947.7	5892.6	5843.0
17.5°	8178.0	7434.6	6779.2	6426.8	6195.5	6123.9	6013.7	5898.1	5815.5	5826.5	5788.0
20°	8558.0	7687.9	6817.8	6459.8	6162.4	6024.8	5854.0	5782.4	5694.3	5688.8	5683.3
22.5°	9009.6	8029.3	6872.8	6371.7	6063.3	5920.1	5804.5	5677.8	5617.2	5540.1	5578.7
25°	9549.3	8161.5	6883.9	6322.1	5991.7	5738.4	5677.8	5540.1	5518.1	5408.0	5430.0
27.5°	9940.3	8233.1	6795.7	6167.9	5826.5	5633.8	5523.6	5424.5	5385.9	5303.3	5281.3
30°	10463.5	8343.2	6608.5	5975.2	5661.3	5446.5	5380.4	5358.4	5248.3	5160.1	5149.1
32.5°	11058.2	8414.8	6487.4	5776.9	5490.6	5325.4	5358.4	5253.8	5116.1	5039.0	5017.0
35°	11531.8	8442.4	6184.5	5551.1	5374.9	5270.3	5231.7	5209.7	5011.5	4939.9	4884.8
37.5°	12253.3	8381.8	5931.1	5391.4	5248.3	5209.7	5176.7	5028.0	4802.2	4697.5	4620.4
40°	13095.9	8365.3	5606.2	5165.6	5127.1	5171.2	5072.0	4840.7	4526.8	4411.2	4356.1
42.5°	13905.4	8480.9	5402.5	5044.5	4994.9	5011.5	4873.8	4526.8	4372.6	4306.5	4218.4
45°	15260.1	8723.2	5066.5	4857.3	4835.2	4824.2	4659.0	4295.5	4207.4	4124.8	4108.3
47.5°	16482.7	8563.5	4851.7	4664.5	4686.5	4626.0	4273.5	4157.9	4058.7	3976.1	3948.6
50°	16554.3	8183.5	4548.9	4515.8	4521.3	4416.7	4080.8	4003.7	3877.0	3821.9	3783.4
52.5°	16179.8	7561.2	4268.0	4279.0	4295.5	4124.8	3843.9	3788.9	3684.2	3607.1	3585.1
55°	15128.0	6592.0	3992.6	4036.7	4080.8	3755.8	3667.7	3530.0	3447.4	3337.3	3342.8
57.5°	13327.2	5308.8	3607.1	3678.7	3772.4	3414.4	3348.3	3177.6	3056.4	2968.3	2957.3
60°	8932.5	3777.9	3028.9	3056.4	3265.7	3122.5	3117.0	2946.3	2781.1	2704.0	2659.9
62.5°	5270.3	2885.7	2615.9	2588.3	2582.8	2665.4	2803.1	2742.5	2527.8	2379.1	2423.1
65°	2759.1	2494.7	2434.1	2340.5	2285.4	2263.4	2368.0	2395.6	2252.4	2092.7	2081.7
67.5°	2318.5	2318.5	2268.9	2235.9	2158.8	2065.2	1999.1	1911.0	1888.9	1844.9	1789.8
70°	2109.2	2164.3	2147.8	2070.7	2004.6	1899.9	1729.2	1586.0	1448.4	1398.8	1431.8
72.5°	1839.4	1894.4	1894.4	1855.9	1767.8	1608.1	1442.9	1277.6	1162.0	1073.9	1062.9
75°	1415.3	1442.9	1508.9	1464.9	1349.2	1250.1	1079.4	908.7	798.5	715.9	699.4
77.5°	903.2	947.2	947.2	941.7	859.1	765.5	655.3	534.2	451.6	391.0	374.5
80°	600.3	627.8	649.8	627.8	572.7	501.1	418.5	335.9	275.4	225.8	214.8
82.5°	440.6	473.6	490.1	468.1	413.0	358.0	297.4	236.8	176.2	137.7	126.7
85°	170.7	176.2	198.3	236.8	231.3	225.8	181.7	132.2	99.1	71.6	66.1
87.5°	44.1	38.5	44.1	44.1	38.5	33.0	33.0	33.0	33.0	16.5	22.0
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)