

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: P532794

Luminaire Tested: **GALN-SA8A-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25019 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 244
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



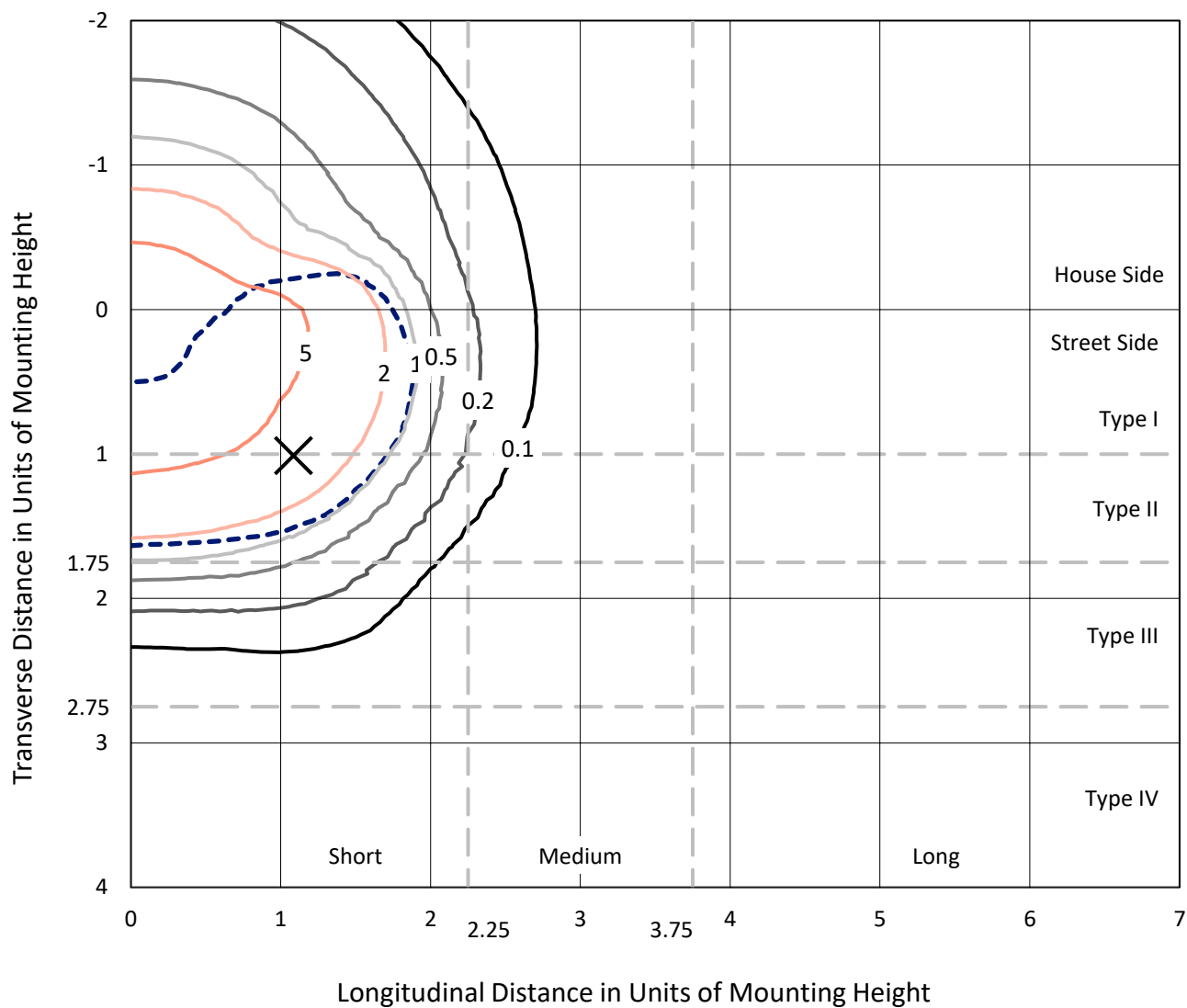
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

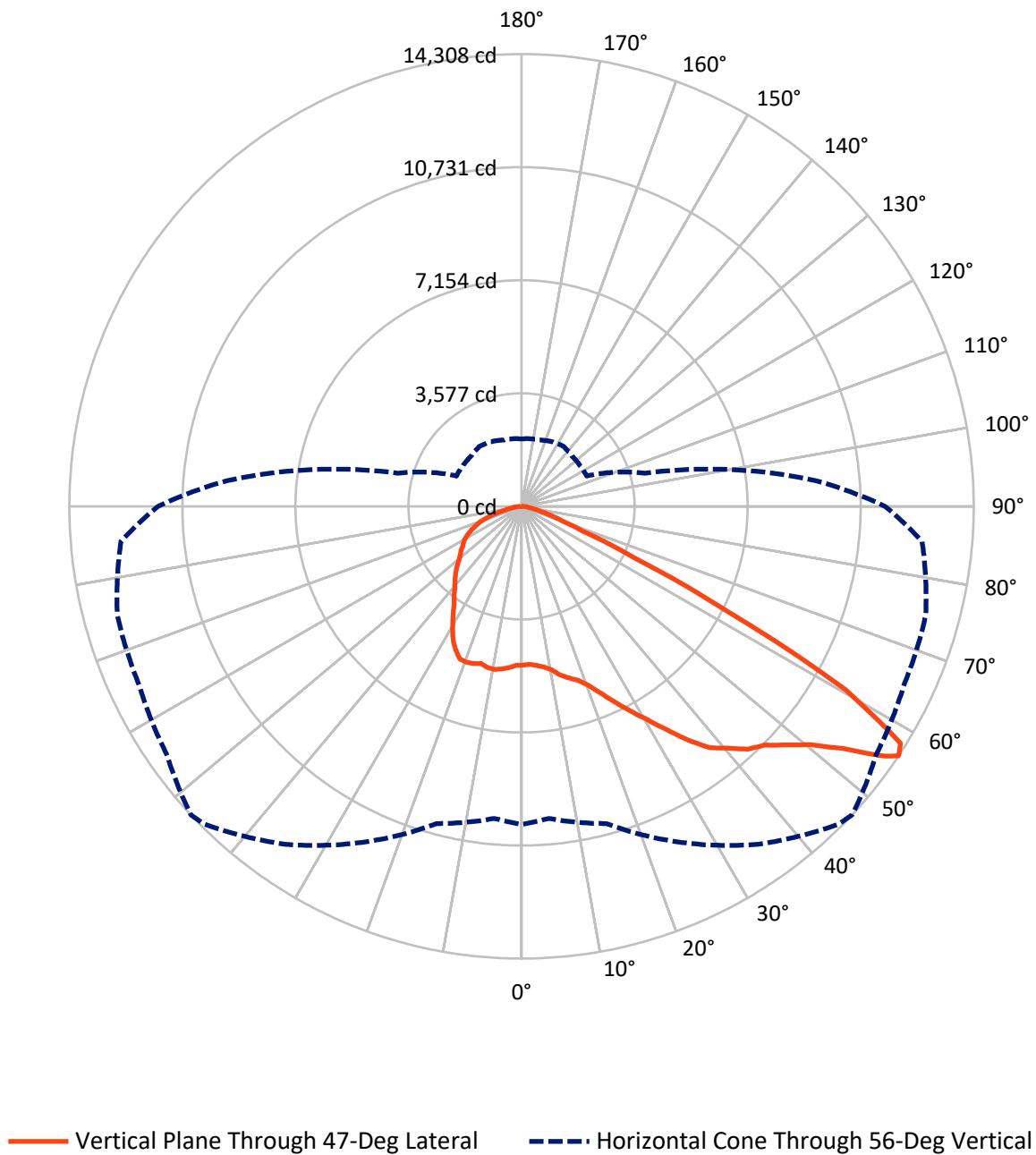


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7928.2	0.0	7928.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	17090.8	0.0	17090.8
	% Fixture	68.3	0.0	68.3
Total	Lumens	25019.0	0.0	25019.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.7	2.0
10°-20°	1544.7	6.2
20°-30°	2730.6	10.9
30°-40°	4101.3	16.4
40°-50°	5628.6	22.5
50°-60°	6705.7	26.8
60°-70°	2869.7	11.5
70°-80°	812.1	3.2
80°-90°	136.7	0.5
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°	25019.0	100.0
0°-180°	25019.0	100.0

Coefficient of Utilization



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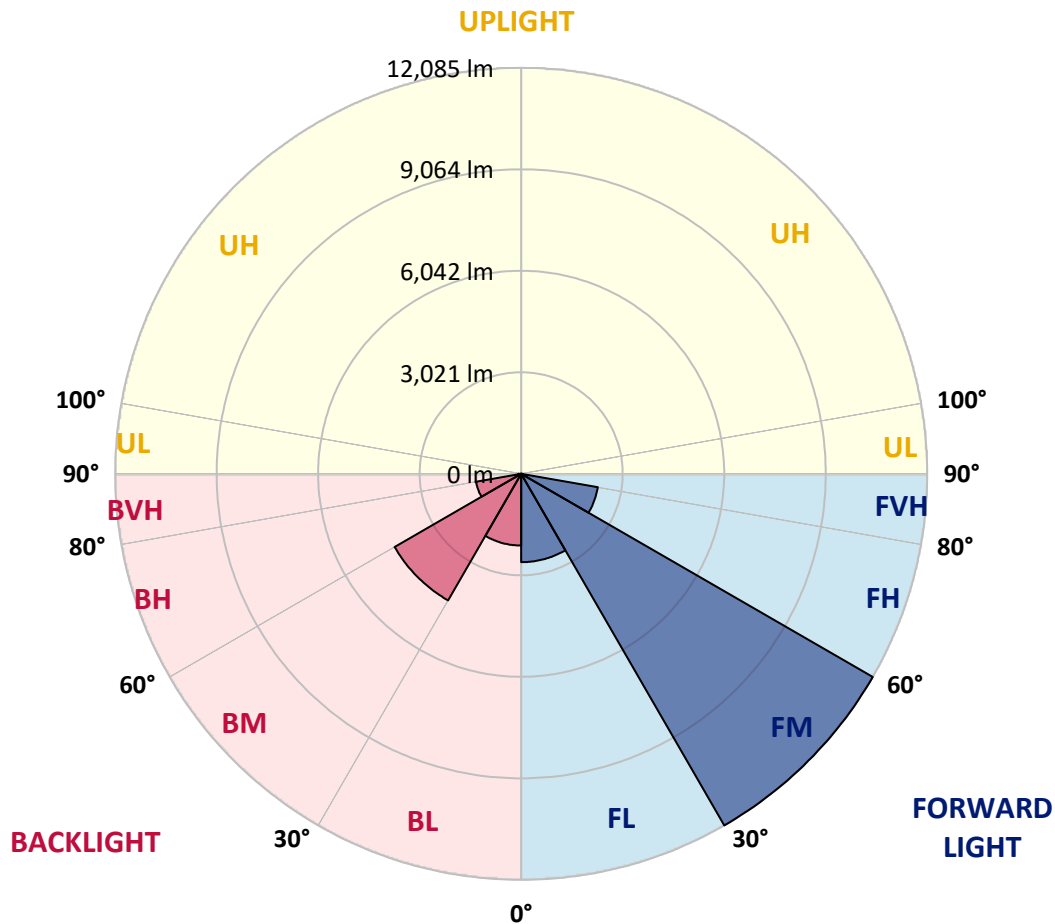
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2630.3	10.5			
FM	(30°-60°)	12084.7	48.3			
FH	(60°-80°)	2317.7	9.3			G2/5000
FVH	(80°-90°)	58.0	0.2			G1/100
BL	(0°-30°)	2134.6	8.5	B3/2500		
BM	(30°-60°)	4350.9	17.4	B3/5000		
BH	(60°-80°)	1364.1	5.5	B3/2500		G3/2500
BVH	(80°-90°)	78.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5025.6	5025.6	5025.6	5025.6	5025.6	5025.6	5025.6	5025.6	5025.6	5025.6	5025.6
2.5°	5006.4	4996.8	4990.5	5041.5	5022.4	5025.6	5006.4	5025.6	5038.3	5009.6	5051.1
5°	4996.8	5025.6	5000.0	5016.0	5057.5	5044.7	5057.5	5095.8	5086.2	5076.6	5063.8
7.5°	5086.2	5089.4	5108.5	5114.9	5127.7	5114.9	5134.0	5169.1	5159.6	5105.3	5111.7
10°	5213.8	5220.2	5223.4	5258.5	5280.8	5284.0	5261.7	5229.8	5226.6	5300.0	5248.9
12.5°	5360.6	5344.6	5382.9	5395.7	5421.2	5449.9	5478.7	5411.6	5453.1	5456.3	5395.7
15°	5574.4	5590.3	5545.7	5545.7	5555.2	5558.4	5638.2	5606.3	5599.9	5564.8	5590.3
17.5°	5893.5	5785.0	5781.8	5737.1	5730.7	5756.3	5785.0	5810.5	5896.7	5826.5	5689.2
20°	6126.4	6151.9	6059.4	6005.1	6014.7	6072.1	6043.4	6158.3	6218.9	6104.1	5970.0
22.5°	6538.0	6451.9	6474.2	6352.9	6362.5	6423.1	6419.9	6538.0	6573.1	6391.2	6196.6
25°	6815.6	6793.3	6812.4	6716.7	6729.5	6777.3	6853.9	7048.5	6991.1	6790.1	6340.2
27.5°	7220.8	7176.2	7160.2	7125.1	7112.4	7240.0	7329.3	7536.7	7495.3	7201.7	6595.4
30°	7635.7	7606.9	7622.9	7479.3	7530.4	7801.6	7827.1	8111.1	8091.9	7575.0	6879.4
32.5°	7922.8	7938.8	7967.5	7887.7	8114.3	8331.3	8417.4	8739.7	8755.6	8216.4	7428.3
35°	8385.5	8331.3	8347.2	8439.7	8545.0	8940.7	9081.1	9294.9	9428.9	8889.7	7954.7
37.5°	8675.9	8733.3	8666.3	8813.1	9087.5	9562.9	9690.6	9910.7	10051.1	9553.3	8672.7
40°	9129.0	9036.4	9084.3	9189.6	9470.4	10089.4	10054.3	10280.9	10325.5	10118.1	9342.7
42.5°	9617.2	9572.5	9505.5	9744.8	9980.9	10430.8	10501.0	10395.7	10622.3	10670.1	10300.0
45°	10201.1	10255.3	10264.9	10271.3	10478.7	10871.2	10775.4	10682.9	10944.5	11292.3	10893.5
47.5°	10743.5	10571.2	10695.7	10868.0	11161.5	11164.7	11276.4	11056.2	11333.8	11643.3	11429.6
50°	10925.4	10842.4	11008.4	11333.8	11786.9	11834.8	11847.6	11534.8	11678.4	11924.1	11614.6
52.5°	10855.2	10826.5	11250.9	11755.0	12418.7	12661.2	12725.0	12338.9	12418.7	12307.0	12023.0
55°	10520.2	10606.3	11033.9	12061.3	13079.2	13829.1	13950.3	13462.1	12954.8	13040.9	12728.2
56°	10060.7	9910.7	10389.3	11713.5	13050.5	14208.8	14307.7	13698.2	13353.6	13241.9	12721.8
57.5°	8535.5	8340.8	8969.4	10539.3	12326.2	14065.2	14138.6	13797.1	13286.6	13060.1	11793.3
60°	4996.8	5092.6	5890.3	7268.7	9508.7	11531.7	11777.4	12026.2	11684.8	10670.1	8778.0
62.5°	2412.3	2351.6	2922.8	4167.2	5794.5	7361.2	7287.9	7986.6	8369.5	7581.4	5542.5
65°	1263.6	1257.2	1595.4	2275.1	3184.4	3867.3	3934.3	4310.8	4837.3	3905.6	2814.3
67.5°	928.5	954.1	1123.2	1598.6	2048.5	2090.0	2080.4	2268.7	2319.7	1962.4	1729.4
70°	727.5	740.3	864.7	1215.7	1525.2	1365.7	1337.0	1359.3	1509.3	1573.1	1496.5
72.5°	526.5	539.3	644.5	820.0	954.1	931.7	950.9	1075.3	1260.4	1327.4	1247.6
75°	351.0	360.6	418.0	501.0	564.8	609.4	644.5	788.1	960.4	998.7	960.4
77.5°	242.5	252.1	290.4	354.2	360.6	389.3	402.0	469.1	574.3	622.2	596.7
80°	137.2	137.2	156.4	181.9	223.4	261.6	268.0	322.3	370.1	402.0	408.4
82.5°	63.8	67.0	83.0	111.7	146.8	181.9	188.3	223.4	258.5	290.4	299.9
85°	31.9	35.1	47.9	67.0	89.3	108.5	105.3	108.5	114.9	108.5	111.7
87.5°	9.6	9.6	12.8	16.0	12.8	16.0	16.0	19.1	22.3	25.5	28.7
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°	5025.6	5025.6	5025.6	5025.6	5025.6	5025.6	5025.6	5025.6	5025.6	5025.6	5025.6
2.5°	5054.3	5063.8	5000.0	5060.7	5038.3	5035.1	5079.8	5073.4	5089.4	5083.0	5044.7
5°	5057.5	5035.1	5102.1	5041.5	5070.2	5130.9	5089.4	5185.1	5137.2	5169.1	5098.9
7.5°	5156.4	5162.8	5150.0	5175.5	5162.8	5191.5	5169.1	5191.5	5153.2	5156.4	5220.2
10°	5242.5	5223.4	5245.7	5213.8	5236.2	5226.6	5175.5	5159.6	5172.3	5156.4	5197.9
12.5°	5402.1	5367.0	5351.0	5312.7	5287.2	5191.5	5111.7	5067.0	5127.7	5137.2	5118.1
15°	5564.8	5568.0	5494.6	5408.5	5248.9	5105.3	5124.5	5140.4	5140.4	5166.0	5118.1
17.5°	5666.9	5666.9	5599.9	5427.6	5264.9	5181.9	5162.8	5111.7	5067.0	5060.7	5057.5
20°	5845.6	5791.4	5638.2	5424.4	5258.5	5220.2	5076.6	4955.4	4862.8	4830.9	4827.7
22.5°	6049.8	5912.6	5698.8	5430.8	5248.9	5194.7	4926.6	4744.8	4578.8	4508.6	4518.2
25°	6238.1	6017.9	5733.9	5402.1	5213.8	4952.2	4652.2	4400.2	4227.8	4170.4	4141.7
27.5°	6368.9	6129.6	5733.9	5427.6	5083.0	4680.9	4374.6	4052.4	3902.4	3864.1	3870.5
30°	6544.4	6270.0	5832.8	5373.4	4821.3	4330.0	3963.0	3752.4	3663.1	3631.2	3653.5
32.5°	6956.0	6636.9	5970.0	5242.5	4511.8	3979.0	3682.2	3564.2	3433.3	3369.5	3347.2
35°	7402.7	6984.7	6104.1	5022.4	4164.0	3659.9	3474.8	3366.3	3210.0	3139.8	3152.5
37.5°	8034.5	7431.4	6113.6	4658.6	3787.5	3481.2	3312.1	3143.0	3015.3	2906.8	2874.9
40°	8886.5	8040.9	6091.3	4275.7	3484.4	3270.6	3146.2	2935.6	2792.0	2715.4	2731.4
42.5°	9636.3	8755.6	5998.8	3841.8	3210.0	3127.0	2986.6	2779.2	2638.8	2559.0	2552.7
45°	10268.1	9282.1	5823.3	3471.6	2980.2	2967.5	2804.7	2645.2	2533.5	2460.1	2492.0
47.5°	10852.0	9706.5	5558.4	3101.5	2769.6	2795.2	2638.8	2539.9	2469.7	2402.7	2399.5
50°	11062.6	9700.1	5325.5	2795.2	2600.5	2587.8	2581.4	2476.1	2402.7	2345.3	2370.8
52.5°	11413.6	9808.6	5073.4	2584.6	2447.4	2450.6	2472.9	2396.3	2313.4	2278.3	2310.2
55°	11917.7	9824.6	4518.2	2338.9	2319.7	2342.1	2342.1	2291.0	2220.8	2192.1	2176.1
56°	11506.1	9349.1	4052.4	2275.1	2255.9	2255.9	2316.5	2259.1	2173.0	2150.6	2131.5
57.5°	10612.7	8190.9	3391.9	2198.5	2169.8	2214.4	2246.3	2185.7	2105.9	2074.0	2093.2
60°	7319.8	5542.5	2549.5	2032.6	2032.6	2105.9	2131.5	2042.1	2007.0	2003.8	1978.3
62.5°	4272.5	3229.1	1994.3	1882.6	1889.0	1949.6	1968.7	1917.7	1873.0	1927.3	1952.8
65°	2265.5	1927.3	1710.3	1723.0	1726.2	1774.1	1857.1	1853.9	1850.7	1866.6	1869.8
67.5°	1640.1	1601.8	1553.9	1541.2	1547.6	1582.7	1665.6	1729.4	1726.2	1687.9	1659.2
70°	1461.4	1407.2	1378.4	1381.6	1356.1	1397.6	1464.6	1506.1	1432.7	1388.0	1368.9
72.5°	1215.7	1199.8	1180.6	1183.8	1132.7	1123.2	1046.6	1046.6	1027.4	1014.7	1037.0
75°	928.5	922.1	931.7	915.8	861.5	804.1	759.4	717.9	654.1	628.6	615.8
77.5°	587.1	606.3	628.6	593.5	571.2	529.7	485.0	443.5	392.5	363.8	363.8
80°	398.9	414.8	430.8	424.4	398.9	360.6	325.5	280.8	245.7	223.4	220.2
82.5°	303.1	315.9	338.2	312.7	287.2	255.3	226.5	194.6	162.7	137.2	137.2
85°	108.5	124.4	137.2	150.0	159.5	162.7	140.4	114.9	92.5	73.4	70.2
87.5°	28.7	31.9	35.1	31.9	31.9	31.9	35.1	31.9	28.7	22.3	22.3
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)