

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: P530456

Luminaire Tested: **GALN-SA5C-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24423 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 269
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

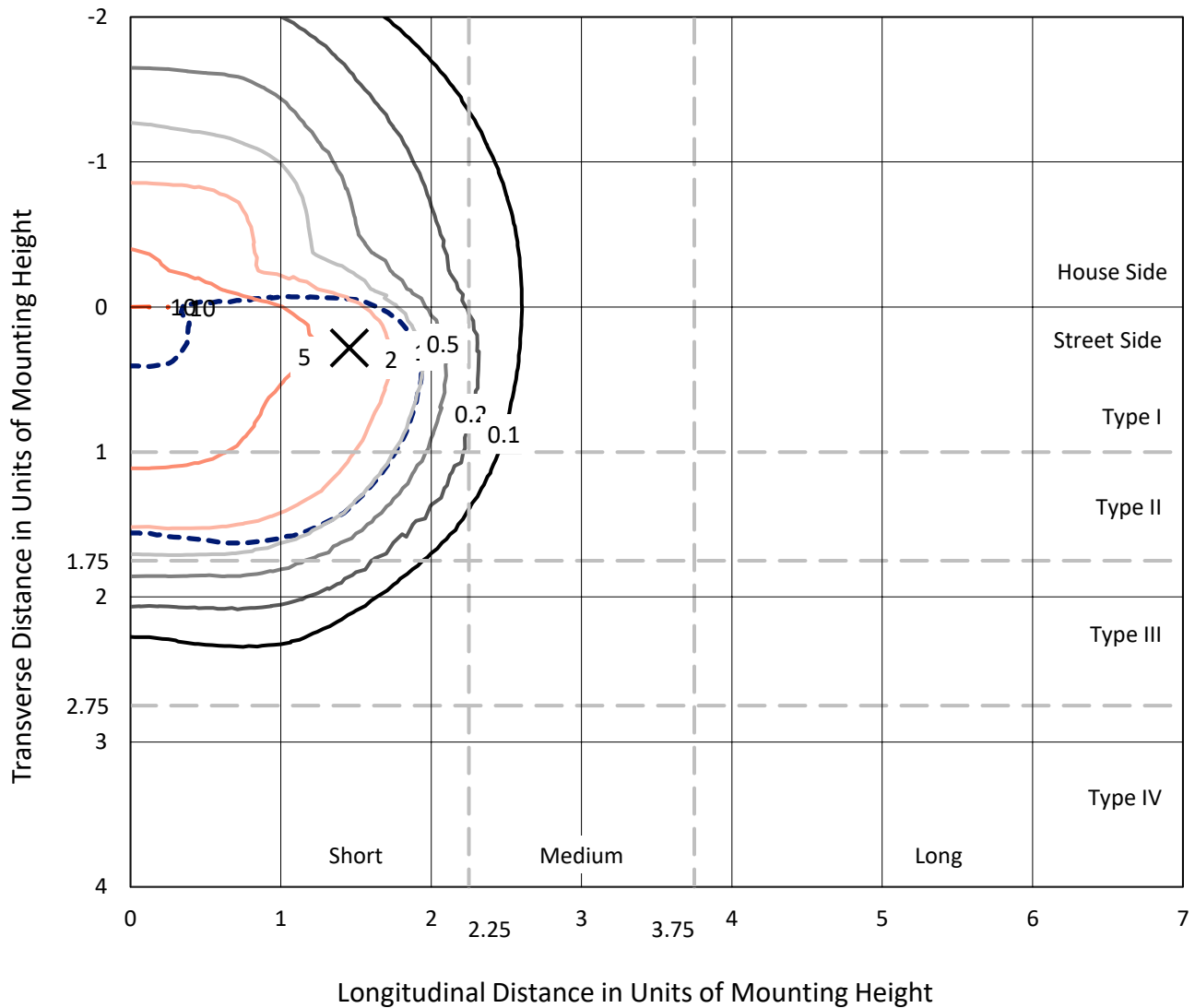


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

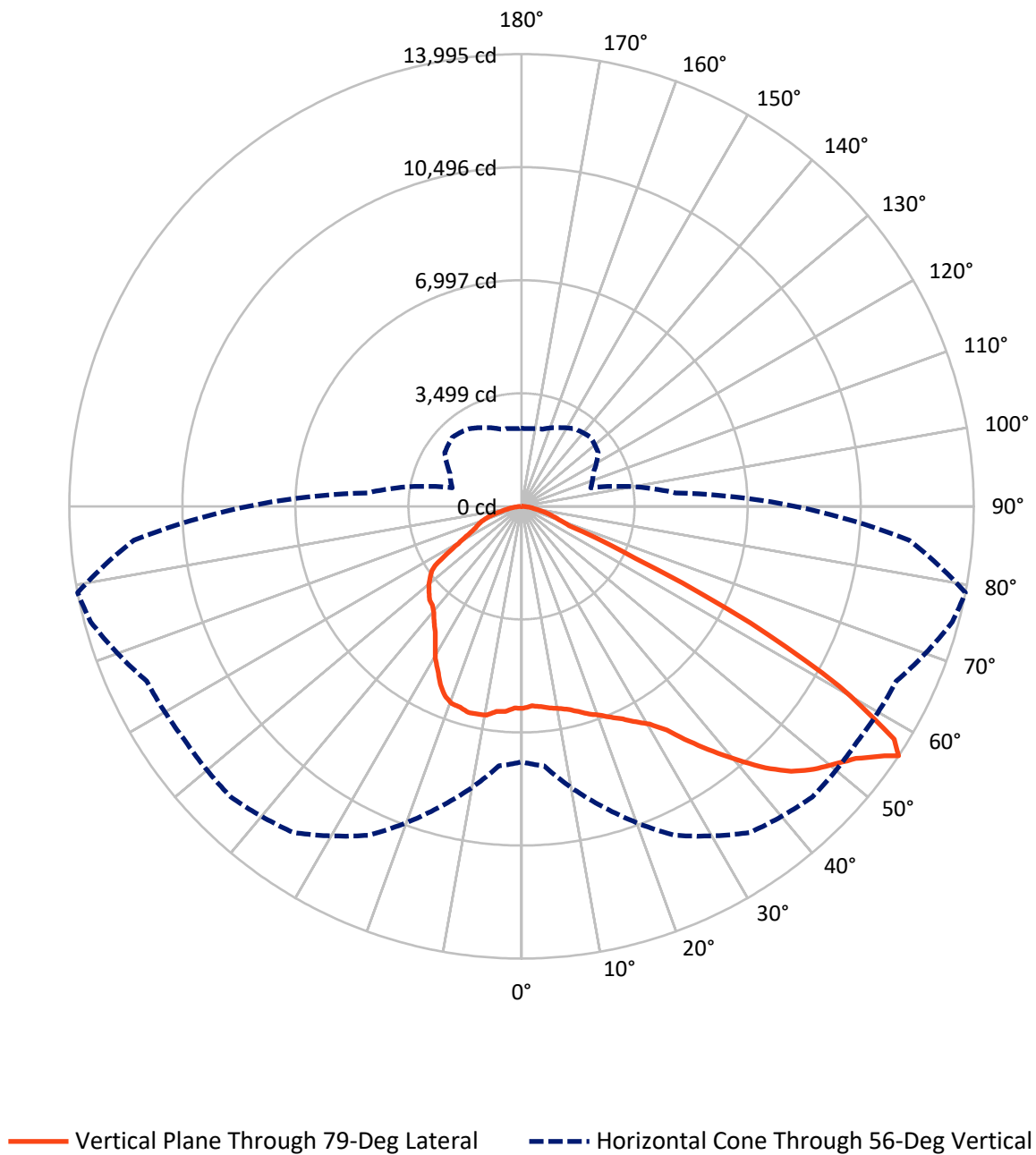


Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7212.6	0.0	7212.6
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	17210.4	0.0	17210.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	24423.0	0.0	24423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.1	2.3
10°-20°	1554.9	6.4
20°-30°	2660.0	10.9
30°-40°	4076.8	16.7
40°-50°	5509.8	22.6
50°-60°	6328.2	25.9
60°-70°	2884.6	11.8
70°-80°	711.2	2.9
80°-90°	129.3	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°	24423.0	100.0
0°-180°	24423.0	100.0

Coefficient of Utilization



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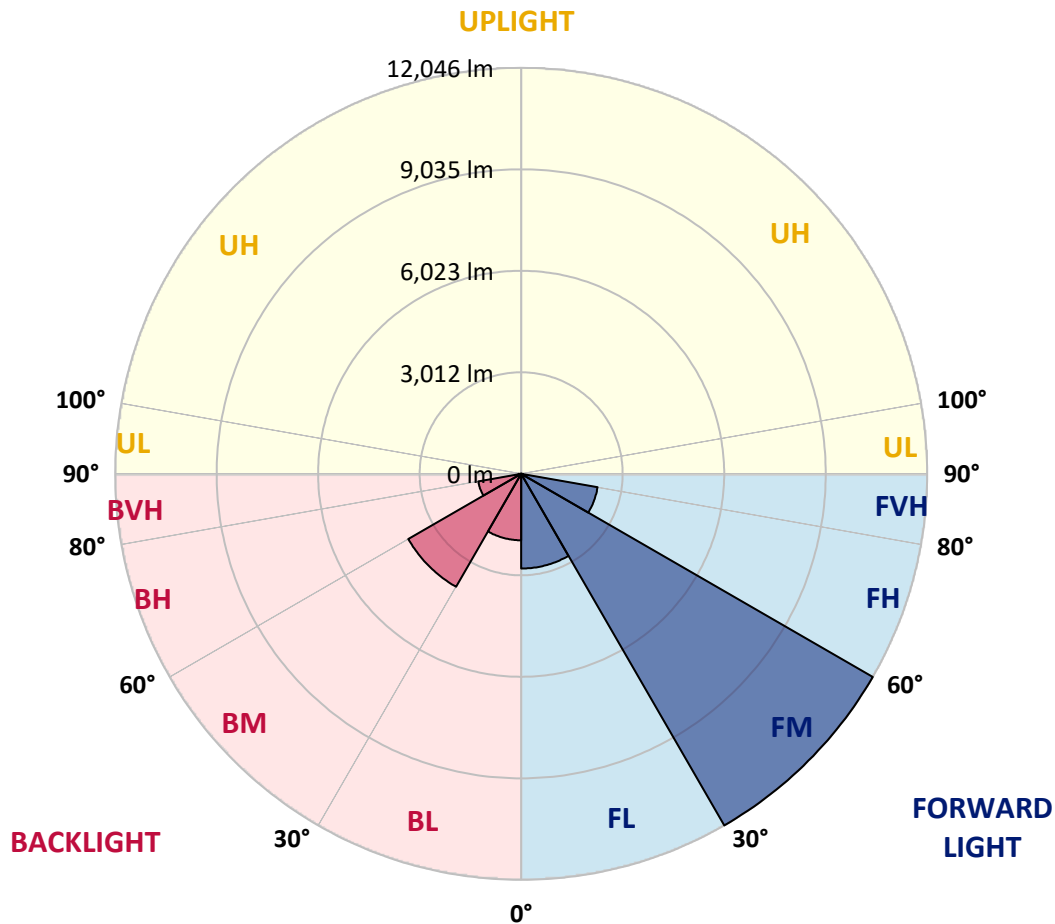
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2810.1	11.5			
FM	(30°-60°)	12046.1	49.3			
FH	(60°-80°)	2302.5	9.4			G2/5000
FVH	(80°-90°)	51.6	0.2			G1/100
BL	(0°-30°)	1973.0	8.1	B3/2500		
BM	(30°-60°)	3868.8	15.8	B3/5000		
BH	(60°-80°)	1293.3	5.3	B3/2500		G3/2500
BVH	(80°-90°)	77.7	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°	55°	65°	75°	79°	85°
0°	6248.9	6248.9	6248.9	6248.9	6248.9	6248.9	6248.9	6248.9	6248.9	6248.9	6248.9
2.5°	5944.6	5929.4	5965.9	5993.3	6026.8	6069.4	6090.7	6102.8	6209.3	6181.9	6264.1
5°	5816.9	5777.3	5804.7	5826.0	5883.8	5935.5	5993.3	6084.6	6181.9	6224.5	6324.9
7.5°	5704.3	5683.0	5676.9	5692.1	5771.2	5838.2	5938.6	6072.4	6230.6	6300.6	6358.4
10°	5518.7	5488.3	5533.9	5634.3	5655.6	5795.6	5911.2	6102.8	6239.8	6361.4	6531.8
12.5°	5436.6	5406.2	5415.3	5473.1	5622.2	5756.0	5892.9	6108.9	6398.0	6446.6	6674.8
15°	5567.4	5537.0	5546.1	5530.9	5673.9	5743.9	5959.9	6230.6	6507.5	6589.6	6833.0
17.5°	5865.5	5868.6	5829.0	5795.6	5762.1	5911.2	6060.3	6303.6	6550.1	6756.9	6939.5
20°	6434.5	6334.1	6255.0	6066.3	6014.6	6078.5	6267.1	6501.4	6723.5	6893.8	7100.7
22.5°	6872.5	6881.7	6769.1	6458.8	6346.2	6373.6	6534.9	6726.5	6969.9	7091.6	7328.9
25°	7508.4	7444.5	7322.8	7076.4	6823.9	6845.2	6963.8	7137.2	7204.2	7289.3	7547.9
27.5°	8089.5	8107.7	7867.4	7636.2	7322.8	7262.0	7474.9	7505.3	7392.8	7554.0	7642.3
30°	8679.7	8664.5	8506.3	8235.5	7928.2	7940.4	8034.7	7885.6	7730.5	7818.7	7879.5
32.5°	9291.2	9117.8	9111.7	8868.3	8634.0	8521.5	8405.9	8478.9	8238.5	8256.8	8199.0
35°	9781.0	9805.3	9665.4	9492.0	9376.4	9178.6	8862.2	8993.0	8947.4	8926.1	8676.6
37.5°	10136.9	10042.6	10112.6	10054.8	9945.3	9698.8	9370.3	9495.0	9516.3	9619.7	9330.7
40°	10429.0	10389.4	10575.0	10605.4	10529.4	9997.0	9406.8	9777.9	10097.4	10322.5	9978.7
42.5°	10568.9	10654.1	10848.8	11083.1	10912.7	10343.8	9595.4	9993.9	10705.8	11061.8	10593.3
45°	10757.6	10648.0	10937.1	11366.0	11369.1	10635.9	9777.9	10286.0	11180.4	11697.6	11013.1
47.5°	10565.9	10620.7	10918.8	11463.4	11603.3	10943.1	10270.8	10699.8	11703.7	12163.1	11402.5
50°	10136.9	10246.5	10791.0	11356.9	11779.8	11268.7	10836.7	11147.0	12187.4	12537.3	11466.4
52.5°	9689.7	9750.6	10602.4	11439.0	11858.9	11688.5	11594.2	11764.6	12777.6	12960.2	11545.5
55°	8472.8	8761.8	9978.7	11402.5	12245.2	12446.0	12373.0	12622.5	13447.0	13629.5	11977.5
56°	7910.0	8062.1	9604.5	11232.2	12321.3	12722.9	12686.4	12798.9	13802.9	13994.6	12044.5
57.5°	6869.5	6881.7	8189.9	10477.7	12035.3	12805.0	12768.5	12856.7	13732.9	13602.1	11457.3
60°	4298.8	4487.4	5573.5	8059.0	10234.3	11880.2	12087.0	11378.2	11579.0	11302.1	8913.9
62.5°	2227.0	2199.6	2920.6	4712.5	6793.4	8506.3	8697.9	8664.5	8354.1	7949.5	5823.0
65°	1110.4	1116.5	1527.2	2333.4	3480.4	4453.9	4989.4	5047.2	4222.7	3885.0	2762.4
67.5°	806.2	836.6	1098.3	1426.8	1639.8	1834.5	2248.3	2205.7	1670.2	1588.1	1472.5
70°	626.7	654.1	891.4	1089.1	988.7	988.7	1077.0	1113.5	1189.5	1223.0	1262.6
72.5°	456.3	477.6	681.5	751.4	648.0	696.7	806.2	891.4	970.5	982.7	1028.3
75°	313.4	331.6	447.2	413.8	389.4	480.7	590.2	669.3	727.1	757.5	784.9
77.5°	203.8	209.9	255.6	216.0	249.5	310.3	383.3	450.3	508.1	532.4	538.5
80°	91.3	100.4	109.5	136.9	173.4	222.1	273.8	328.6	365.1	374.2	392.5
82.5°	51.7	51.7	66.9	97.4	127.8	161.2	197.7	237.3	279.9	289.0	286.0
85°	27.4	27.4	39.5	57.8	79.1	94.3	91.3	94.3	100.4	115.6	112.6
87.5°	9.1	9.1	12.2	12.2	15.2	18.3	15.2	21.3	27.4	27.4	27.4
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°	6248.9	6248.9	6248.9	6248.9	6248.9	6248.9	6248.9	6248.9	6248.9	6248.9	6248.9
2.5°	6239.8	6267.1	6230.6	6309.7	6309.7	6294.5	6218.5	6242.8	6261.0	6261.0	6276.3
5°	6358.4	6349.3	6373.6	6279.3	6221.5	6200.2	6075.5	6014.6	5962.9	5959.9	5914.2
7.5°	6425.3	6401.0	6391.9	6321.9	6066.3	5911.2	5643.5	5488.3	5454.8	5336.2	5381.8
10°	6531.8	6577.4	6531.8	6151.5	5795.6	5439.6	5178.0	4937.6	4843.3	4767.3	4721.6
12.5°	6750.9	6729.6	6464.9	5950.7	5451.8	5028.9	4639.5	4387.0	4292.7	4225.8	4219.7
15°	6936.4	6830.0	6425.3	5634.3	4916.4	4466.1	4146.7	3967.2	3924.6	3930.6	3958.0
17.5°	7000.3	6927.3	6218.5	5305.8	4517.8	3988.5	3839.4	3812.0	3851.5	3897.2	3909.4
20°	7100.7	6985.1	6133.3	4858.5	4025.0	3690.3	3681.2	3778.5	3851.5	3918.5	3927.6
22.5°	7310.6	7018.6	5856.4	4435.7	3687.3	3602.1	3690.3	3772.4	3885.0	3939.8	3891.1
25°	7371.5	6945.6	5467.0	3927.6	3474.3	3547.3	3641.6	3754.2	3833.3	3863.7	3885.0
27.5°	7423.2	6833.0	4940.7	3589.9	3407.4	3544.3	3641.6	3735.9	3778.5	3805.9	3830.3
30°	7569.2	6799.5	4484.3	3364.8	3364.8	3483.4	3608.2	3632.5	3690.3	3723.8	3766.4
32.5°	7642.3	6568.3	4015.8	3221.8	3322.2	3513.9	3523.0	3568.6	3571.7	3599.0	3553.4
35°	7833.9	6404.0	3580.8	3118.4	3340.4	3483.4	3529.1	3501.7	3352.6	3279.6	3294.8
37.5°	7973.9	6321.9	3267.4	3106.2	3343.5	3516.9	3541.2	3334.4	3179.2	3057.5	3087.9
40°	8351.1	6118.1	3030.1	3084.9	3370.9	3553.4	3486.5	3261.3	2981.5	2856.7	2835.4
42.5°	8640.1	5972.0	2881.1	3060.6	3392.2	3605.1	3459.1	3115.3	2829.3	2713.7	2744.2
45°	8974.8	5938.6	2802.0	3066.6	3428.7	3632.5	3425.6	3002.7	2698.5	2652.9	2643.8
47.5°	9093.4	5698.2	2716.8	3014.9	3419.5	3623.4	3313.1	2917.6	2649.8	2655.9	2680.3
50°	8895.7	5451.8	2652.9	2908.4	3358.7	3541.2	3136.6	2805.0	2622.5	2698.5	2741.1
52.5°	8643.2	5199.3	2522.1	2765.4	3234.0	3413.5	3054.5	2798.9	2595.1	2570.7	2579.9
55°	8719.2	4992.4	2339.5	2570.7	3033.2	3176.2	2963.2	2741.1	2528.1	2436.9	2467.3
56°	8472.8	4779.4	2220.9	2449.0	2896.3	3024.0	2917.6	2689.4	2473.4	2412.5	2412.5
57.5°	7776.1	4064.5	2065.7	2254.3	2607.2	2759.4	2829.3	2659.0	2412.5	2306.1	2309.1
60°	5734.7	2890.2	1852.8	1986.6	2160.0	2281.7	2607.2	2573.8	2260.4	2187.4	2160.0
62.5°	3535.1	2111.4	1700.6	1752.4	1840.6	1941.0	2275.6	2330.4	2099.2	2020.1	2001.8
65°	1980.5	1615.5	1585.0	1606.3	1648.9	1700.6	1889.3	2011.0	1852.8	1731.1	1725.0
67.5°	1448.1	1445.1	1469.4	1487.7	1505.9	1505.9	1551.6	1600.2	1579.0	1481.6	1472.5
70°	1286.9	1296.0	1314.3	1317.3	1323.4	1302.1	1265.6	1250.4	1274.7	1213.9	1201.7
72.5°	1061.8	1092.2	1113.5	1116.5	1083.1	1055.7	1007.0	955.3	937.0	924.9	921.8
75°	815.3	836.6	845.8	842.7	830.5	791.0	733.2	681.5	648.0	611.5	629.8
77.5°	550.7	581.1	596.3	596.3	578.0	517.2	489.8	450.3	416.8	377.2	383.3
80°	386.4	407.7	432.0	429.0	398.5	368.1	328.6	292.1	264.7	234.3	231.2
82.5°	289.0	301.2	313.4	307.3	286.0	255.6	228.2	194.7	164.3	143.0	143.0
85°	103.4	112.6	136.9	143.0	155.2	155.2	130.8	109.5	88.2	73.0	73.0
87.5°	30.4	30.4	33.5	33.5	30.4	33.5	27.4	30.4	33.5	21.3	21.3
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)