

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: P529986

Luminaire Tested: **GALN-SA5A-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529986
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-SA5A-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 15516 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 154
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



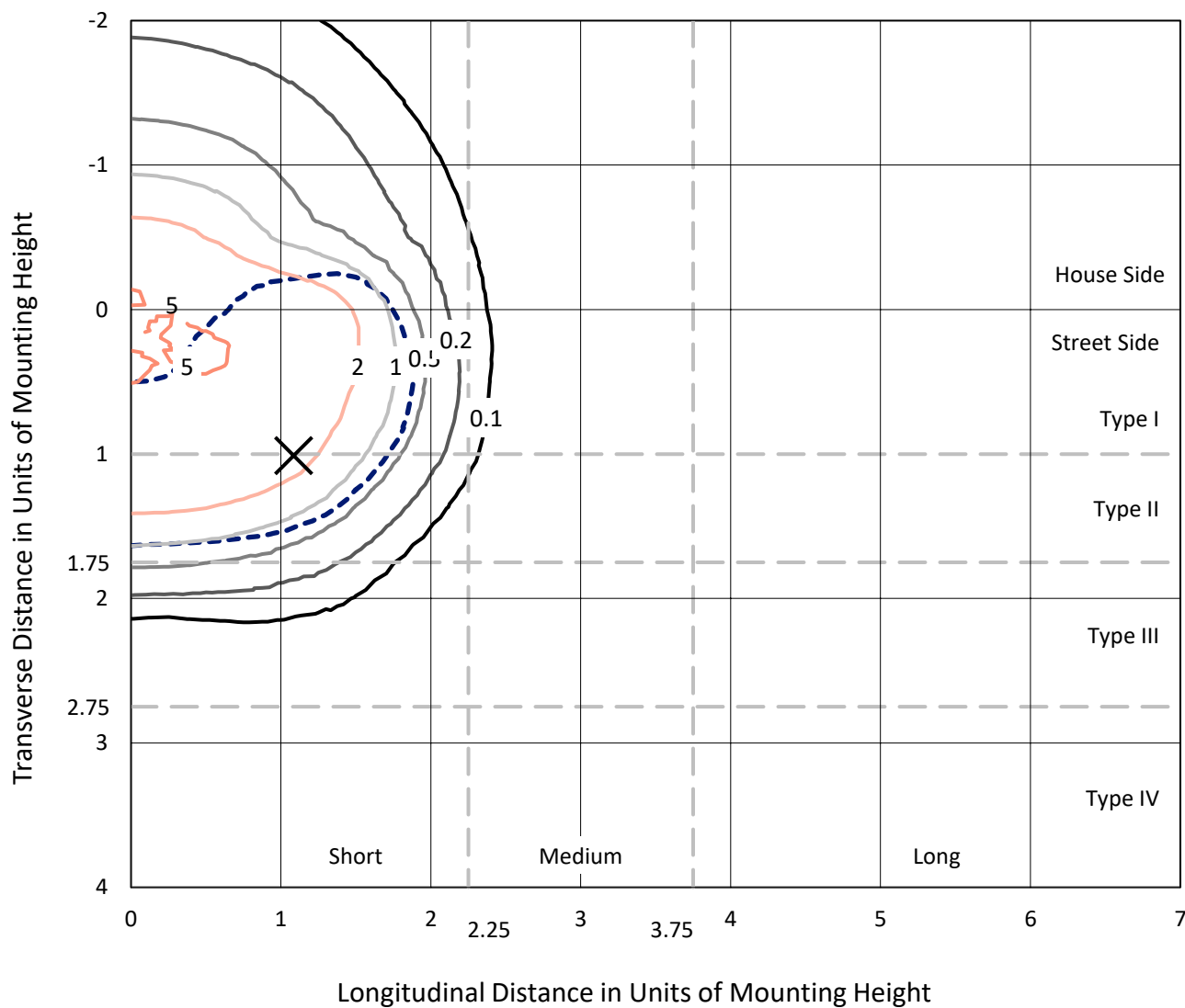
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

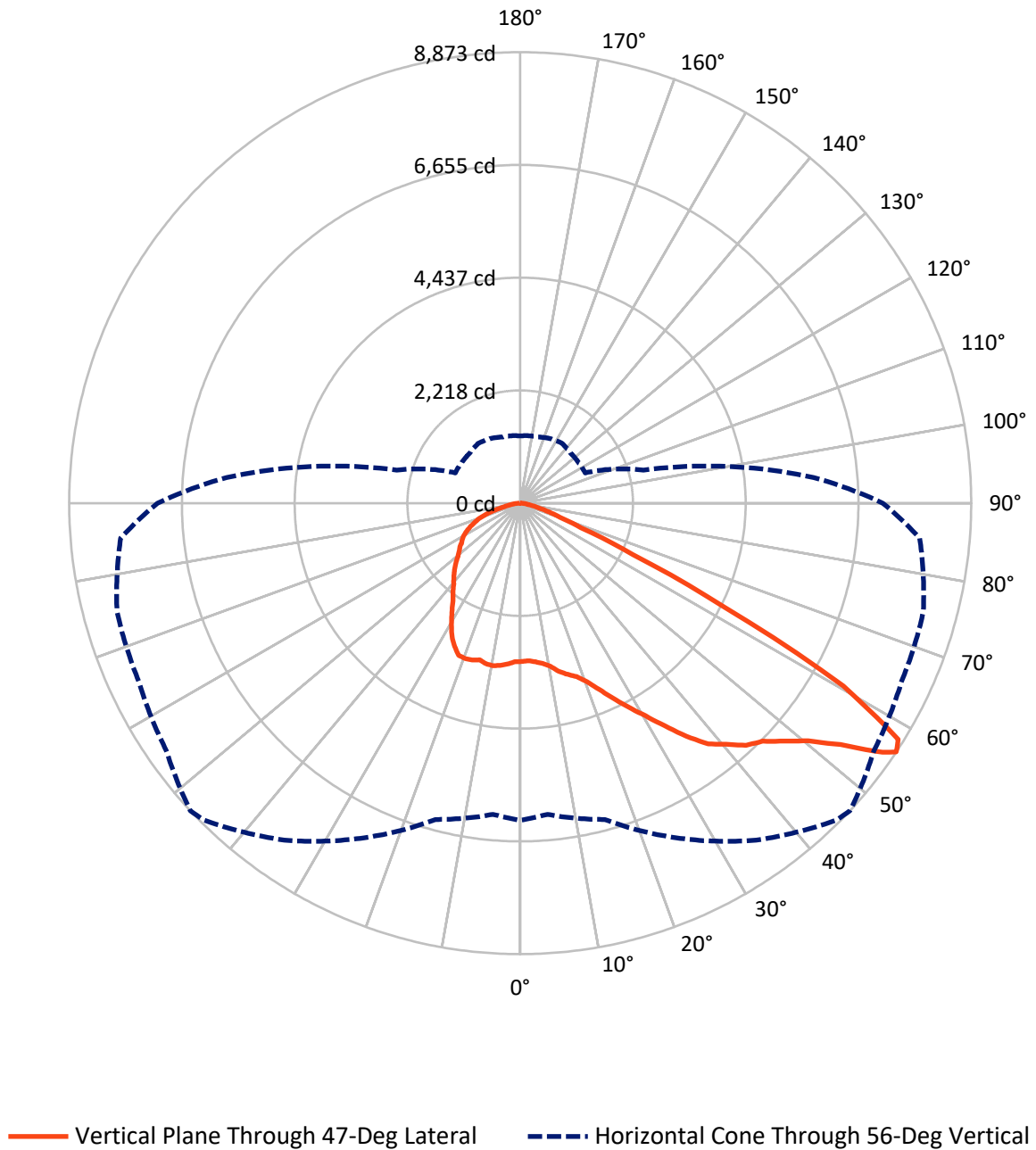
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	4916.8	0.0	4916.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	10599.2	0.0	10599.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	15516.0	0.0	15516.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.7	2.0
10°-20°	958.0	6.2
20°-30°	1693.4	10.9
30°-40°	2543.5	16.4
40°-50°	3490.7	22.5
50°-60°	4158.7	26.8
60°-70°	1779.7	11.5
70°-80°	503.6	3.2
80°-90°	84.8	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°	15516.0	100.0
0°-180°	15516.0	100.0

Coefficient of Utilization



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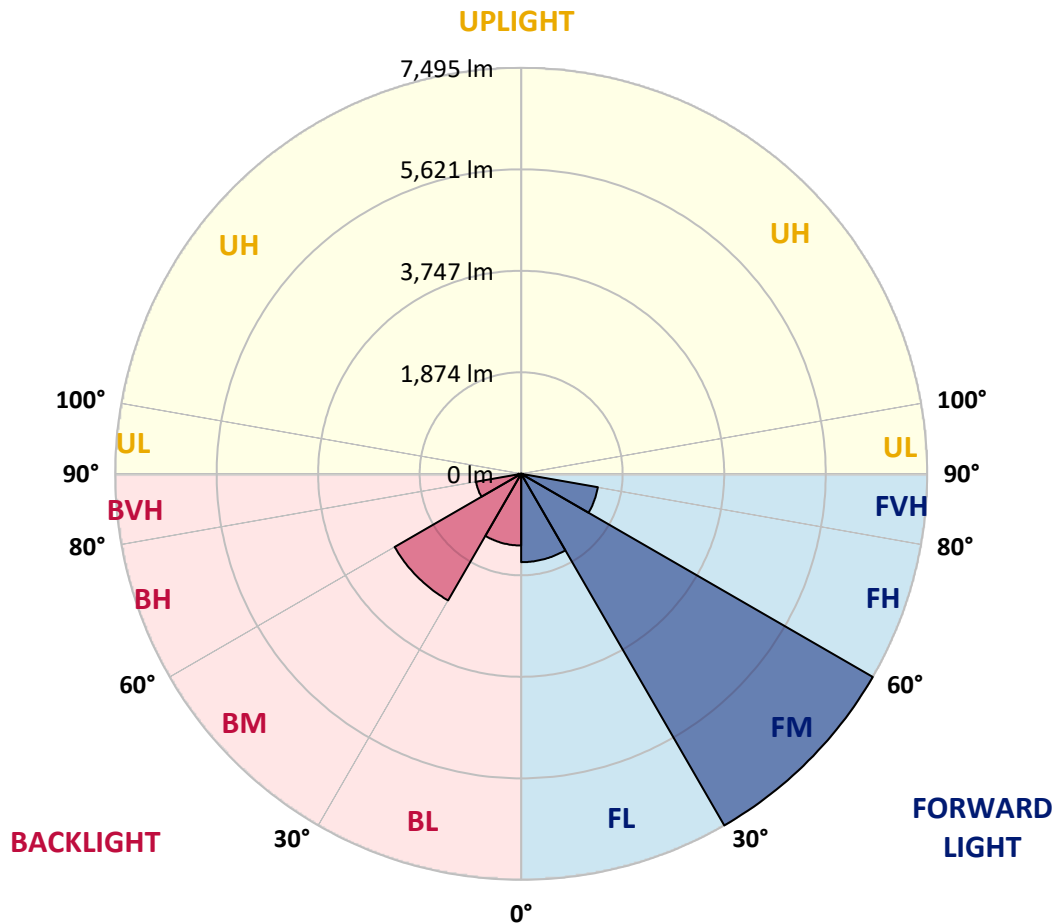
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1631.3	10.5			
FM	(30°-60°)	7494.6	48.3			
FH	(60°-80°)	1437.3	9.3			G1/1800
FVH	(80°-90°)	36.0	0.2			G1/100
BL	(0°-30°)	1323.8	8.5	B3/2500		
BM	(30°-60°)	2698.3	17.4	B3/5000		
BH	(60°-80°)	846.0	5.5	B2/1000		G2/1000
BVH	(80°-90°)	48.8	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3116.7	3116.7	3116.7	3116.7	3116.7	3116.7	3116.7	3116.7	3116.7	3116.7	3116.7
2.5°	3104.8	3098.9	3094.9	3126.6	3114.7	3116.7	3104.8	3116.7	3124.6	3106.8	3132.5
5°	3098.9	3116.7	3100.9	3110.8	3136.5	3128.6	3136.5	3160.2	3154.3	3148.4	3140.4
7.5°	3154.3	3156.3	3168.1	3172.1	3180.0	3172.1	3184.0	3205.7	3199.8	3166.2	3170.1
10°	3233.4	3237.4	3239.4	3261.1	3275.0	3277.0	3263.1	3243.3	3241.4	3286.9	3255.2
12.5°	3324.5	3314.6	3338.3	3346.2	3362.1	3379.9	3397.7	3356.1	3381.9	3383.8	3346.2
15°	3457.1	3466.9	3439.2	3439.2	3445.2	3447.2	3496.6	3476.8	3472.9	3451.1	3466.9
17.5°	3654.9	3587.7	3585.7	3558.0	3554.0	3569.9	3587.7	3603.5	3656.9	3613.4	3528.3
20°	3799.4	3815.2	3757.8	3724.2	3730.1	3765.8	3747.9	3819.2	3856.8	3785.5	3702.4
22.5°	4054.7	4001.2	4015.1	3939.9	3945.8	3983.4	3981.5	4054.7	4076.4	3963.6	3842.9
25°	4226.8	4213.0	4224.9	4165.5	4173.4	4203.1	4250.6	4371.3	4335.7	4211.0	3932.0
27.5°	4478.1	4450.4	4440.5	4418.8	4410.9	4490.0	4545.4	4674.1	4648.3	4466.3	4090.3
30°	4735.4	4717.6	4727.5	4638.4	4670.1	4838.3	4854.1	5030.2	5018.4	4697.8	4266.4
32.5°	4913.5	4923.4	4941.2	4891.7	5032.2	5166.8	5220.2	5420.1	5430.0	5095.5	4606.8
35°	5200.4	5166.8	5176.7	5234.1	5299.4	5544.7	5631.8	5764.4	5847.5	5513.1	4933.3
37.5°	5380.5	5416.1	5374.6	5465.6	5635.8	5930.6	6009.8	6146.3	6233.4	5924.7	5378.5
40°	5661.5	5604.1	5633.8	5699.1	5873.2	6257.1	6235.4	6375.9	6403.6	6274.9	5794.1
42.5°	5964.3	5936.6	5895.0	6043.4	6189.9	6468.9	6512.4	6447.1	6587.6	6617.3	6387.7
45°	6326.4	6360.0	6366.0	6369.9	6498.6	6742.0	6682.6	6625.2	6787.5	7003.2	6755.8
47.5°	6662.8	6555.9	6633.1	6740.0	6922.0	6924.0	6993.3	6856.7	7028.9	7220.8	7088.3
50°	6775.6	6724.1	6827.0	7028.9	7309.9	7339.6	7347.5	7153.6	7242.6	7395.0	7203.0
52.5°	6732.1	6714.2	6977.4	7290.1	7701.7	7852.1	7891.7	7652.2	7701.7	7632.4	7456.3
55°	6524.3	6577.7	6842.9	7480.1	8111.3	8576.3	8651.5	8348.8	8034.1	8087.6	7893.6
56°	6239.3	6146.3	6443.1	7264.4	8093.5	8811.8	8873.2	8495.2	8281.5	8212.2	7889.7
57.5°	5293.4	5172.7	5562.6	6536.2	7644.3	8722.8	8768.3	8556.6	8239.9	8099.4	7313.8
60°	3098.9	3158.2	3653.0	4507.8	5897.0	7151.6	7303.9	7458.3	7246.6	6617.3	5443.8
62.5°	1496.0	1458.4	1812.6	2584.4	3593.6	4565.2	4519.7	4953.1	5190.5	4701.8	3437.3
65°	783.6	779.7	989.4	1410.9	1974.9	2398.4	2439.9	2673.4	2999.9	2422.1	1745.3
67.5°	575.8	591.7	696.6	991.4	1270.4	1296.1	1290.2	1407.0	1438.6	1217.0	1072.5
70°	451.2	459.1	536.3	753.9	945.9	846.9	829.1	843.0	936.0	975.6	928.1
72.5°	326.5	334.4	399.7	508.6	591.7	577.8	589.7	666.9	781.6	823.2	773.7
75°	217.7	223.6	259.2	310.7	350.3	378.0	399.7	488.8	595.6	619.4	595.6
77.5°	150.4	156.3	180.1	219.7	223.6	241.4	249.3	290.9	356.2	385.9	370.0
80°	85.1	85.1	97.0	112.8	138.5	162.3	166.2	199.9	229.5	249.3	253.3
82.5°	39.6	41.6	51.5	69.3	91.0	112.8	116.8	138.5	160.3	180.1	186.0
85°	19.8	21.8	29.7	41.6	55.4	67.3	65.3	67.3	71.2	67.3	69.3
87.5°	5.9	5.9	7.9	9.9	7.9	9.9	9.9	11.9	13.9	15.8	17.8
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°	3116.7	3116.7	3116.7	3116.7	3116.7	3116.7	3116.7	3116.7	3116.7	3116.7	3116.7
2.5°	3134.5	3140.4	3100.9	3138.5	3124.6	3122.6	3150.3	3146.4	3156.3	3152.3	3128.6
5°	3136.5	3122.6	3164.2	3126.6	3144.4	3182.0	3156.3	3215.6	3186.0	3205.7	3162.2
7.5°	3197.8	3201.8	3193.9	3209.7	3201.8	3219.6	3205.7	3219.6	3195.8	3197.8	3237.4
10°	3251.3	3239.4	3253.2	3233.4	3247.3	3241.4	3209.7	3199.8	3207.7	3197.8	3223.6
12.5°	3350.2	3328.4	3318.5	3294.8	3279.0	3219.6	3170.1	3142.4	3180.0	3186.0	3174.1
15°	3451.1	3453.1	3407.6	3354.2	3255.2	3166.2	3178.0	3187.9	3187.9	3203.8	3174.1
17.5°	3514.4	3514.4	3472.9	3366.0	3265.1	3213.7	3201.8	3170.1	3142.4	3138.5	3136.5
20°	3625.3	3591.6	3496.6	3364.0	3261.1	3237.4	3148.4	3073.2	3015.8	2996.0	2994.0
22.5°	3751.9	3666.8	3534.2	3368.0	3255.2	3221.6	3055.3	2942.6	2839.7	2796.1	2802.1
25°	3868.7	3732.1	3556.0	3350.2	3233.4	3071.2	2885.2	2728.8	2622.0	2586.4	2568.6
27.5°	3949.8	3801.4	3556.0	3366.0	3152.3	2903.0	2713.0	2513.1	2420.1	2396.4	2400.3
30°	4058.6	3888.4	3617.3	3332.4	2990.0	2685.3	2457.7	2327.1	2271.7	2251.9	2265.8
32.5°	4313.9	4116.0	3702.4	3251.3	2798.1	2467.6	2283.6	2210.4	2129.2	2089.7	2075.8
35°	4590.9	4331.7	3785.5	3114.7	2582.4	2269.7	2155.0	2087.7	1990.7	1947.2	1955.1
37.5°	4982.8	4608.7	3791.5	2889.1	2348.9	2158.9	2054.0	1949.2	1870.0	1802.7	1782.9
40°	5511.1	4986.7	3777.6	2651.7	2160.9	2028.3	1951.1	1820.5	1731.5	1684.0	1693.9
42.5°	5976.1	5430.0	3720.2	2382.5	1990.7	1939.3	1852.2	1723.6	1636.5	1587.0	1583.1
45°	6367.9	5756.5	3611.4	2153.0	1848.2	1840.3	1739.4	1640.5	1571.2	1525.7	1545.5
47.5°	6730.1	6019.7	3447.2	1923.4	1717.6	1733.5	1636.5	1575.2	1531.6	1490.1	1488.1
50°	6860.7	6015.7	3302.7	1733.5	1612.8	1604.8	1600.9	1535.6	1490.1	1454.5	1470.3
52.5°	7078.4	6083.0	3146.4	1602.9	1517.8	1519.8	1533.6	1486.1	1434.7	1412.9	1432.7
55°	7391.0	6092.9	2802.1	1450.5	1438.6	1452.5	1452.5	1420.8	1377.3	1359.5	1349.6
56°	7135.7	5798.0	2513.1	1410.9	1399.0	1399.0	1436.6	1401.0	1347.6	1333.7	1321.9
57.5°	6581.7	5079.7	2103.5	1363.4	1345.6	1373.3	1393.1	1355.5	1306.0	1286.3	1298.1
60°	4539.5	3437.3	1581.1	1260.5	1260.5	1306.0	1321.9	1266.5	1244.7	1242.7	1226.9
62.5°	2649.7	2002.6	1236.8	1167.5	1171.5	1209.1	1221.0	1189.3	1161.6	1195.2	1211.1
65°	1405.0	1195.2	1060.7	1068.6	1070.6	1100.2	1151.7	1149.7	1147.7	1157.6	1159.6
67.5°	1017.1	993.4	963.7	955.8	959.7	981.5	1033.0	1072.5	1070.6	1046.8	1029.0
70°	906.3	872.7	854.9	856.8	841.0	866.7	908.3	934.0	888.5	860.8	848.9
72.5°	753.9	744.0	732.2	734.2	702.5	696.6	649.1	649.1	637.2	629.3	643.1
75°	575.8	571.9	577.8	567.9	534.3	498.7	471.0	445.2	405.7	389.8	381.9
77.5°	364.1	376.0	389.8	368.1	354.2	328.5	300.8	275.1	243.4	225.6	225.6
80°	247.4	257.3	267.1	263.2	247.4	223.6	201.8	174.1	152.4	138.5	136.5
82.5°	188.0	195.9	209.8	193.9	178.1	158.3	140.5	120.7	100.9	85.1	85.1
85°	67.3	77.2	85.1	93.0	98.9	100.9	87.1	71.2	57.4	45.5	43.5
87.5°	17.8	19.8	21.8	19.8	19.8	19.8	21.8	19.8	17.8	13.9	13.9
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)