

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: P528192

Luminaire Tested: **GALN-SA3B-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528192
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-SA3B-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA 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: 13190 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

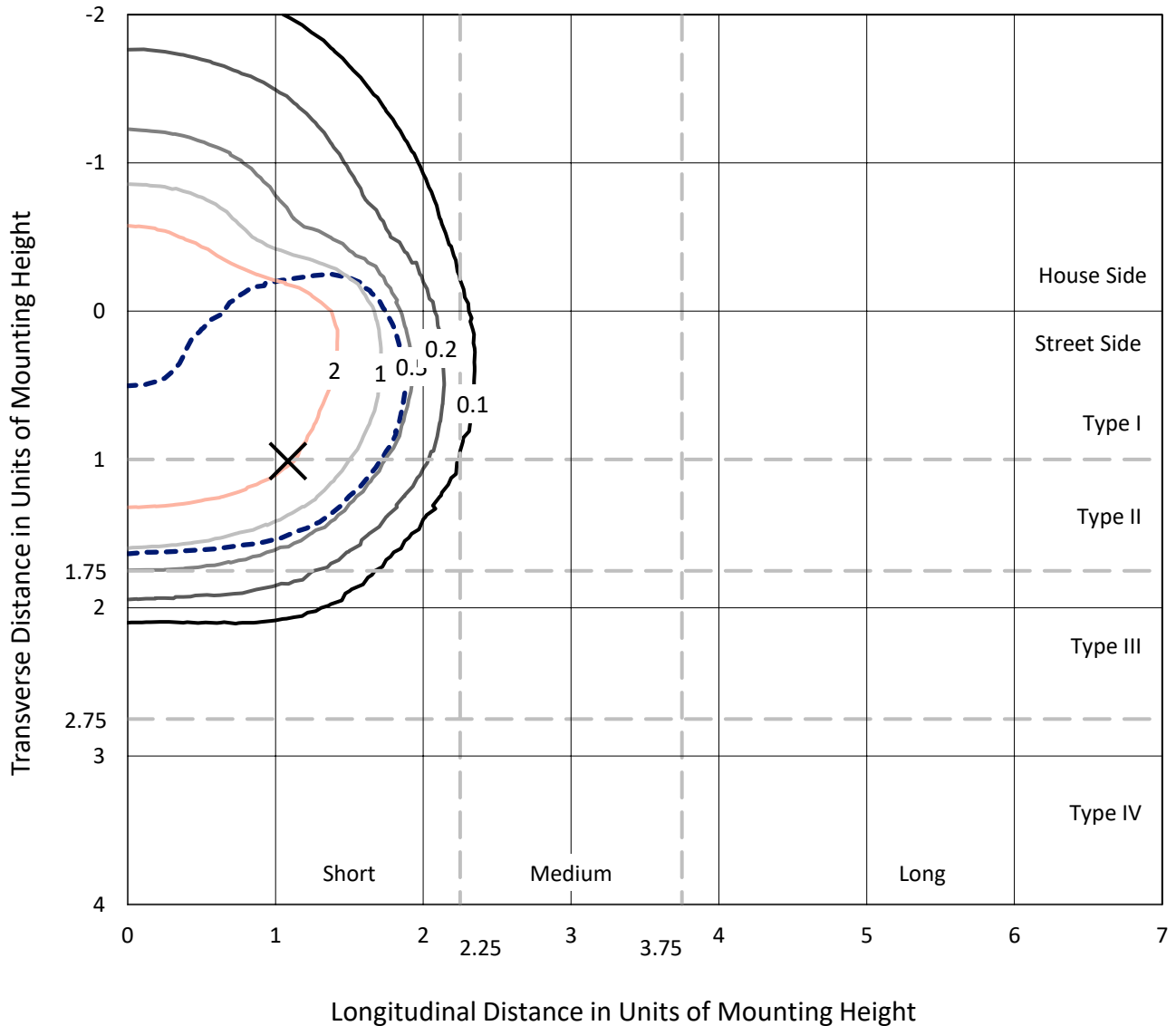
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

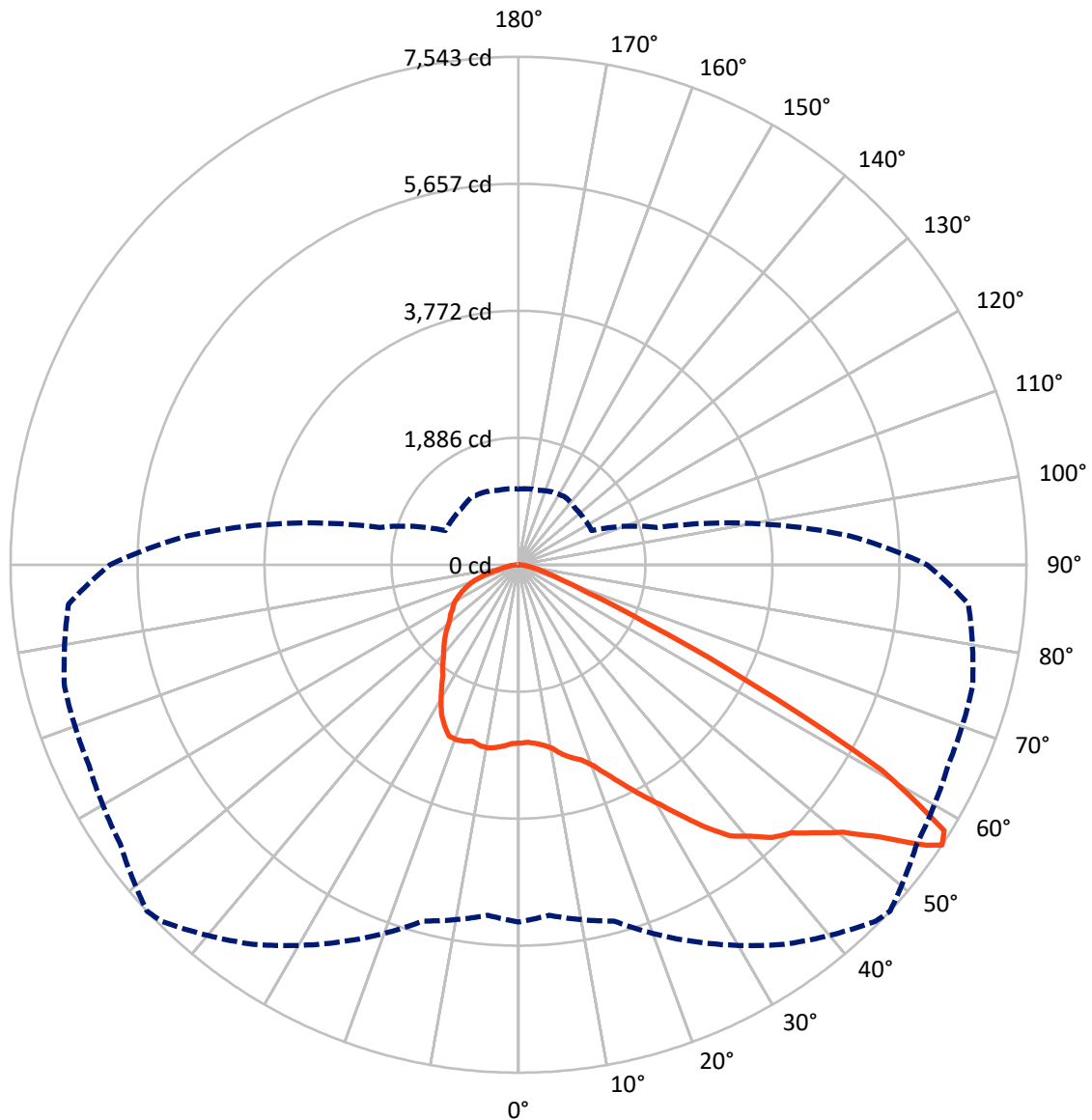
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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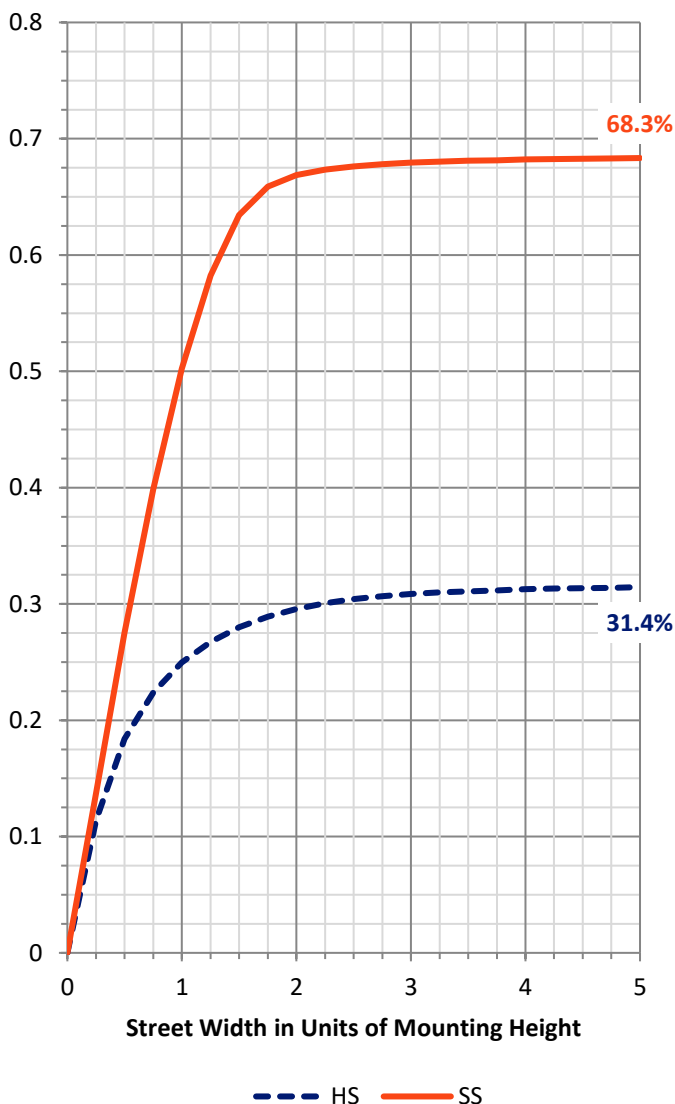
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4179.8	0.0	4179.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	9010.2	0.0	9010.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	13190.0	0.0	13190.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.2	2.0
10°-20°	814.3	6.2
20°-30°	1439.6	10.9
30°-40°	2162.2	16.4
40°-50°	2967.4	22.5
50°-60°	3535.3	26.8
60°-70°	1512.9	11.5
70°-80°	428.1	3.2
80°-90°	72.0	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°	13190.0	100.0
0°-180°	13190.0	100.0

Coefficient of Utilization



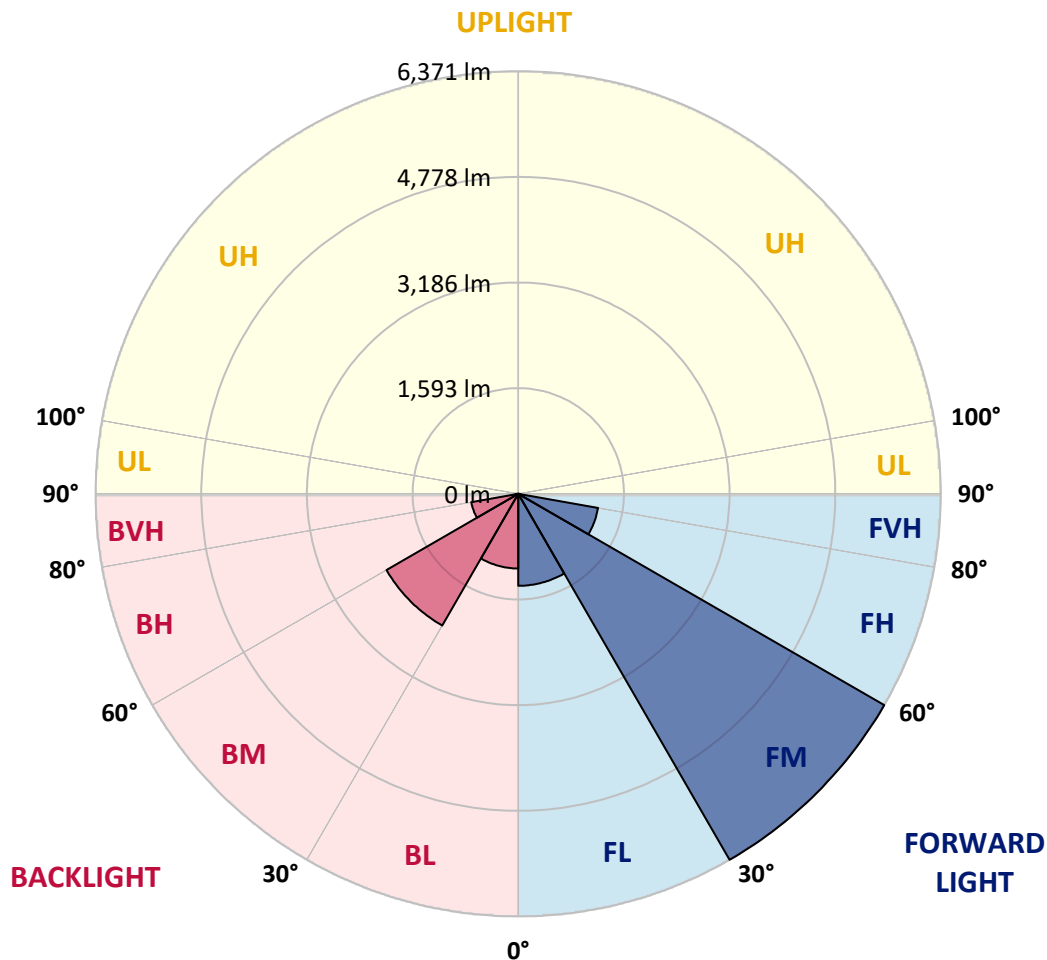
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1386.7	10.5			
FM (30°-60°)	6371.1	48.3			
FH (60°-80°)	1221.9	9.3			G1/1800
FVH (80°-90°)	30.6	0.2			G1/100
BL (0°-30°)	1125.4	8.5	B3/2500		
BM (30°-60°)	2293.8	17.4	B2/2500		
BH (60°-80°)	719.2	5.5	B2/1000		G2/1000
BVH (80°-90°)	41.5	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°	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5
2.5°	2639.4	2634.3	2631.0	2657.9	2647.8	2649.5	2639.4	2649.5	2656.2	2641.1	2662.9
5°	2634.3	2649.5	2636.0	2644.4	2666.3	2659.6	2666.3	2686.5	2681.4	2676.4	2669.7
7.5°	2681.4	2683.1	2693.2	2696.6	2703.3	2696.6	2706.7	2725.2	2720.1	2691.5	2694.9
10°	2748.7	2752.1	2753.8	2772.3	2784.0	2785.7	2774.0	2757.1	2755.4	2794.1	2767.2
12.5°	2826.1	2817.7	2837.9	2844.6	2858.1	2873.2	2888.3	2853.0	2874.9	2876.6	2844.6
15°	2938.8	2947.2	2923.7	2923.7	2928.7	2930.4	2972.5	2955.6	2952.3	2933.8	2947.2
17.5°	3107.0	3049.8	3048.2	3024.6	3021.2	3034.7	3049.8	3063.3	3108.7	3071.7	2999.4
20°	3229.8	3243.3	3194.5	3165.9	3171.0	3201.2	3186.1	3246.7	3278.6	3218.1	3147.4
22.5°	3446.8	3401.4	3413.2	3349.3	3354.3	3386.3	3384.6	3446.8	3465.3	3369.5	3266.8
25°	3593.2	3581.4	3591.5	3541.0	3547.8	3573.0	3613.4	3716.0	3685.7	3579.7	3342.5
27.5°	3806.8	3783.3	3774.9	3756.4	3749.6	3816.9	3864.0	3973.4	3951.5	3796.7	3477.1
30°	4025.5	4010.4	4018.8	3943.1	3970.0	4113.0	4126.4	4276.2	4266.1	3993.6	3626.8
32.5°	4176.9	4185.3	4200.5	4158.4	4277.8	4392.2	4437.7	4607.6	4616.0	4331.7	3916.2
35°	4420.8	4392.2	4400.6	4449.4	4504.9	4713.5	4787.6	4900.3	4970.9	4686.6	4193.7
37.5°	4573.9	4604.2	4568.9	4646.2	4790.9	5041.6	5108.9	5224.9	5298.9	5036.5	4572.2
40°	4812.8	4764.0	4789.2	4844.7	4992.8	5319.1	5300.6	5420.1	5443.6	5334.3	4925.5
42.5°	5070.2	5046.6	5011.3	5137.4	5261.9	5499.1	5536.1	5480.6	5600.1	5625.3	5430.2
45°	5378.0	5406.6	5411.6	5415.0	5524.4	5731.3	5680.8	5632.0	5770.0	5953.3	5743.0
47.5°	5664.0	5573.1	5638.7	5729.6	5884.3	5886.0	5944.9	5828.8	5975.2	6138.4	6025.7
50°	5759.9	5716.1	5803.6	5975.2	6214.1	6239.3	6246.0	6081.2	6156.9	6286.4	6123.2
52.5°	5722.9	5707.7	5931.4	6197.2	6547.1	6675.0	6708.6	6505.1	6547.1	6488.3	6338.5
55°	5546.2	5591.6	5817.1	6358.7	6895.4	7290.7	7354.6	7097.2	6829.7	6875.2	6710.3
56°	5304.0	5224.9	5477.3	6175.4	6880.2	7490.9	7543.0	7221.7	7040.0	6981.1	6706.9
57.5°	4499.9	4397.3	4728.7	5556.3	6498.4	7415.2	7453.8	7273.8	7004.7	6885.3	6217.4
60°	2634.3	2684.8	3105.3	3832.1	5013.0	6079.5	6209.0	6340.2	6160.2	5625.3	4627.7
62.5°	1271.7	1239.8	1540.9	2197.0	3054.9	3880.8	3842.2	4210.6	4412.4	3996.9	2922.0
65°	666.2	662.8	841.1	1199.4	1678.8	2038.8	2074.2	2272.7	2550.2	2059.0	1483.7
67.5°	489.5	503.0	592.1	842.8	1080.0	1101.8	1096.8	1196.0	1223.0	1034.6	911.8
70°	383.5	390.3	455.9	640.9	804.1	720.0	704.8	716.6	795.7	829.3	789.0
72.5°	277.6	284.3	339.8	432.3	503.0	491.2	501.3	566.9	664.5	699.8	657.7
75°	185.0	190.1	220.4	264.1	297.7	321.3	339.8	415.5	506.3	526.5	506.3
77.5°	127.8	132.9	153.1	186.7	190.1	205.2	212.0	247.3	302.8	328.0	314.6
80°	72.3	72.3	82.4	95.9	117.8	137.9	141.3	169.9	195.1	212.0	215.3
82.5°	33.6	35.3	43.7	58.9	77.4	95.9	99.2	117.8	136.3	153.1	158.1
85°	16.8	18.5	25.2	35.3	47.1	57.2	55.5	57.2	60.6	57.2	58.9
87.5°	5.0	5.0	6.7	8.4	6.7	8.4	8.4	10.1	11.8	13.5	15.1
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°	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5	2649.5
2.5°	2664.6	2669.7	2636.0	2668.0	2656.2	2654.5	2678.1	2674.7	2683.1	2679.7	2659.6
5°	2666.3	2654.5	2689.8	2657.9	2673.0	2705.0	2683.1	2733.6	2708.3	2725.2	2688.2
7.5°	2718.4	2721.8	2715.1	2728.5	2721.8	2736.9	2725.2	2736.9	2716.8	2718.4	2752.1
10°	2763.9	2753.8	2765.5	2748.7	2760.5	2755.4	2728.5	2720.1	2726.9	2718.4	2740.3
12.5°	2848.0	2829.5	2821.1	2800.9	2787.4	2736.9	2694.9	2671.3	2703.3	2708.3	2698.3
15°	2933.8	2935.4	2896.8	2851.3	2767.2	2691.5	2701.6	2710.0	2710.0	2723.5	2698.3
17.5°	2987.6	2987.6	2952.3	2861.4	2775.6	2731.9	2721.8	2694.9	2671.3	2668.0	2666.3
20°	3081.8	3053.2	2972.5	2859.7	2772.3	2752.1	2676.4	2612.5	2563.7	2546.9	2545.2
22.5°	3189.5	3117.1	3004.4	2863.1	2767.2	2738.6	2597.3	2501.4	2414.0	2377.0	2382.0
25°	3288.7	3172.6	3022.9	2848.0	2748.7	2610.8	2452.7	2319.8	2228.9	2198.6	2183.5
27.5°	3357.7	3231.5	3022.9	2861.4	2679.7	2467.8	2306.3	2136.4	2057.3	2037.1	2040.5
30°	3450.2	3305.5	3075.1	2832.8	2541.8	2282.7	2089.3	1978.3	1931.2	1914.3	1926.1
32.5°	3667.2	3499.0	3147.4	2763.9	2378.6	2097.7	1941.3	1879.0	1810.1	1776.4	1764.6
35°	3902.7	3682.3	3218.1	2647.8	2195.3	1929.5	1831.9	1774.7	1692.3	1655.3	1662.0
37.5°	4235.8	3917.9	3223.1	2456.0	1996.8	1835.3	1746.1	1657.0	1589.7	1532.5	1515.7
40°	4684.9	4239.2	3211.3	2254.2	1837.0	1724.3	1658.7	1547.6	1471.9	1431.6	1440.0
42.5°	5080.3	4616.0	3162.5	2025.4	1692.3	1648.6	1574.5	1465.2	1391.2	1349.1	1345.8
45°	5413.3	4893.5	3070.0	1830.2	1571.2	1564.4	1478.7	1394.5	1335.7	1297.0	1313.8
47.5°	5721.2	5117.3	2930.4	1635.1	1460.2	1473.6	1391.2	1339.0	1302.0	1266.7	1265.0
50°	5832.2	5113.9	2807.6	1473.6	1371.0	1364.3	1360.9	1305.4	1266.7	1236.4	1249.9
52.5°	6017.2	5171.1	2674.7	1362.6	1290.2	1291.9	1303.7	1263.3	1219.6	1201.1	1217.9
55°	6283.0	5179.5	2382.0	1233.1	1223.0	1234.7	1234.7	1207.8	1170.8	1155.7	1147.3
56°	6066.0	4928.9	2136.4	1199.4	1189.3	1189.3	1221.3	1191.0	1145.6	1133.8	1123.7
57.5°	5595.0	4318.2	1788.2	1159.0	1143.9	1167.4	1184.3	1152.3	1110.3	1093.4	1103.5
60°	3859.0	2922.0	1344.1	1071.6	1071.6	1110.3	1123.7	1076.6	1058.1	1056.4	1043.0
62.5°	2252.5	1702.4	1051.4	992.5	995.9	1027.8	1037.9	1011.0	987.5	1016.1	1029.5
65°	1194.4	1016.1	901.7	908.4	910.1	935.3	979.0	977.4	975.7	984.1	985.8
67.5°	864.7	844.5	819.2	812.5	815.9	834.4	878.1	911.8	910.1	889.9	874.7
70°	770.4	741.9	726.7	728.4	714.9	736.8	772.1	794.0	755.3	731.8	721.7
72.5°	640.9	632.5	622.4	624.1	597.2	592.1	551.8	551.8	541.7	534.9	546.7
75°	489.5	486.2	491.2	482.8	454.2	423.9	400.4	378.5	344.9	331.4	324.7
77.5°	309.5	319.6	331.4	312.9	301.1	279.2	255.7	233.8	206.9	191.8	191.8
80°	210.3	218.7	227.1	223.7	210.3	190.1	171.6	148.0	129.5	117.8	116.1
82.5°	159.8	166.5	178.3	164.9	151.4	134.6	119.4	102.6	85.8	72.3	72.3
85°	57.2	65.6	72.3	79.1	84.1	85.8	74.0	60.6	48.8	38.7	37.0
87.5°	15.1	16.8	18.5	16.8	16.8	16.8	18.5	16.8	15.1	11.8	11.8
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)