

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: P532088

Luminaire Tested: **GALN-SA7B-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26417 lumens
Efficiency: N/A
Efficacy: 92.4 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): 286
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

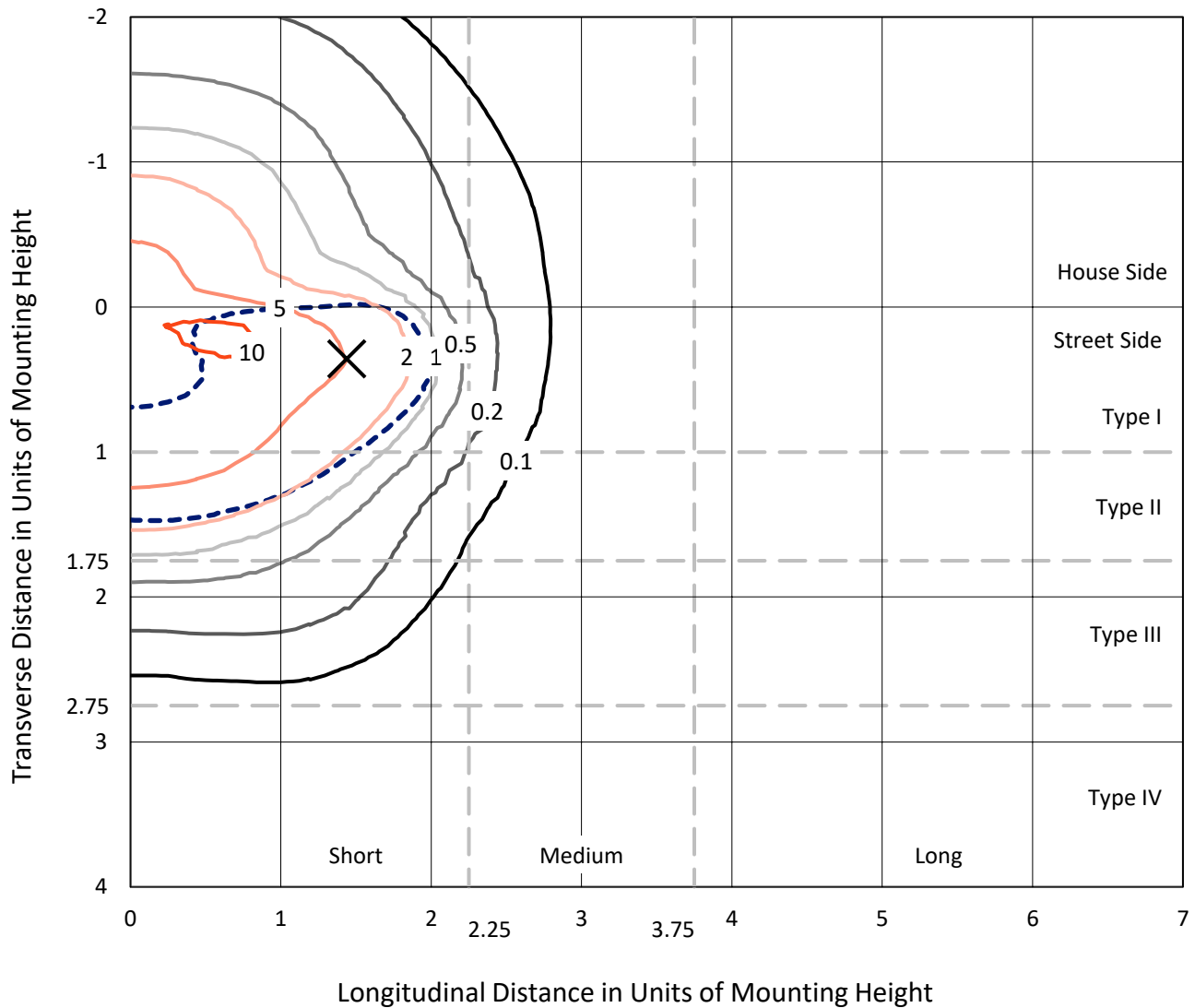


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

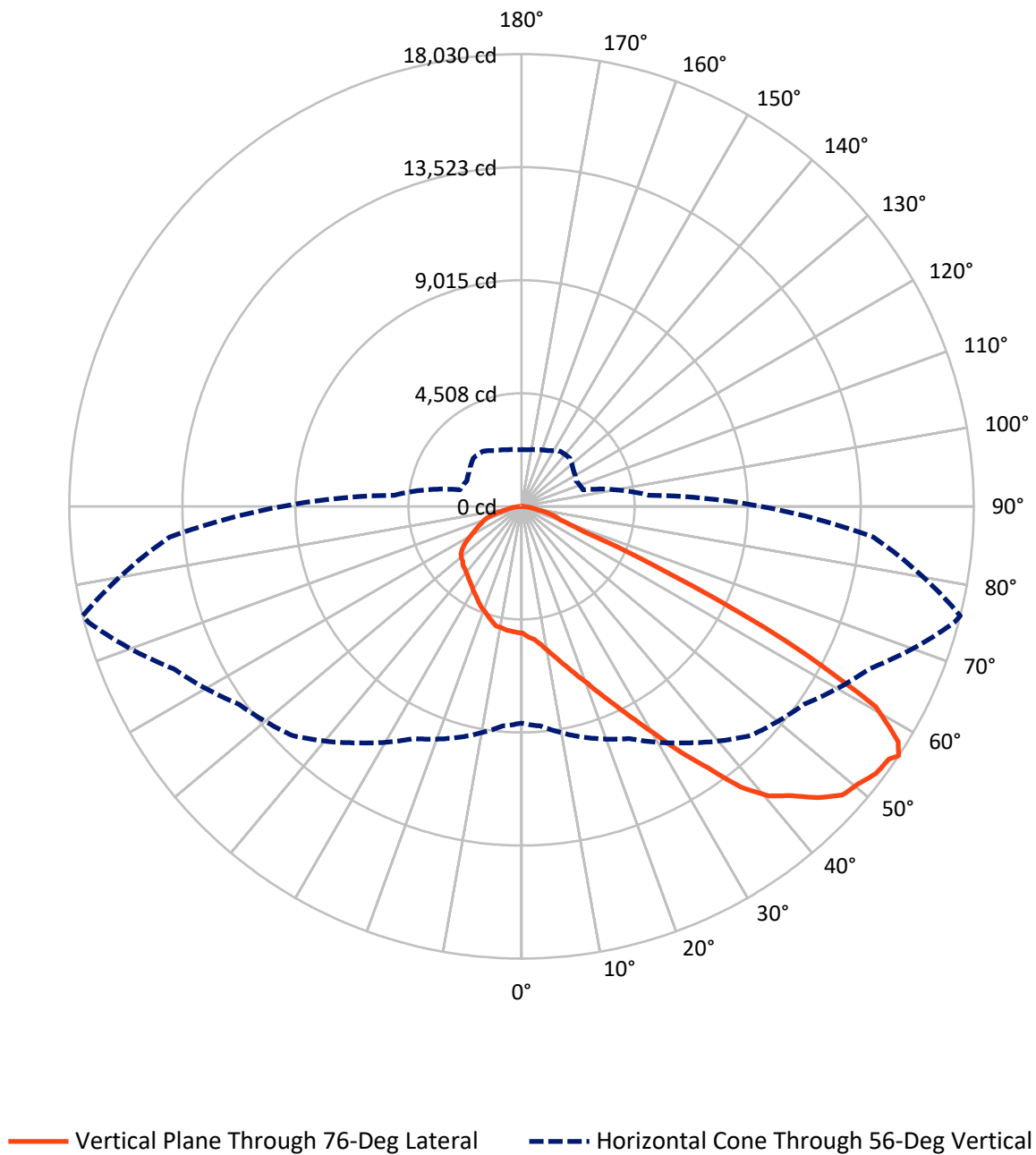


Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7102.7	0.0	7102.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	19314.3	0.0	19314.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	26417.0	0.0	26417.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.3	1.9
10°-20°	1574.6	6.0
20°-30°	2753.8	10.4
30°-40°	4311.6	16.3
40°-50°	6272.2	23.7
50°-60°	6893.6	26.1
60°-70°	3077.0	11.6
70°-80°	888.8	3.4
80°-90°	144.2	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°	26417.0	100.0
0°-180°	26417.0	100.0

Coefficient of Utilization



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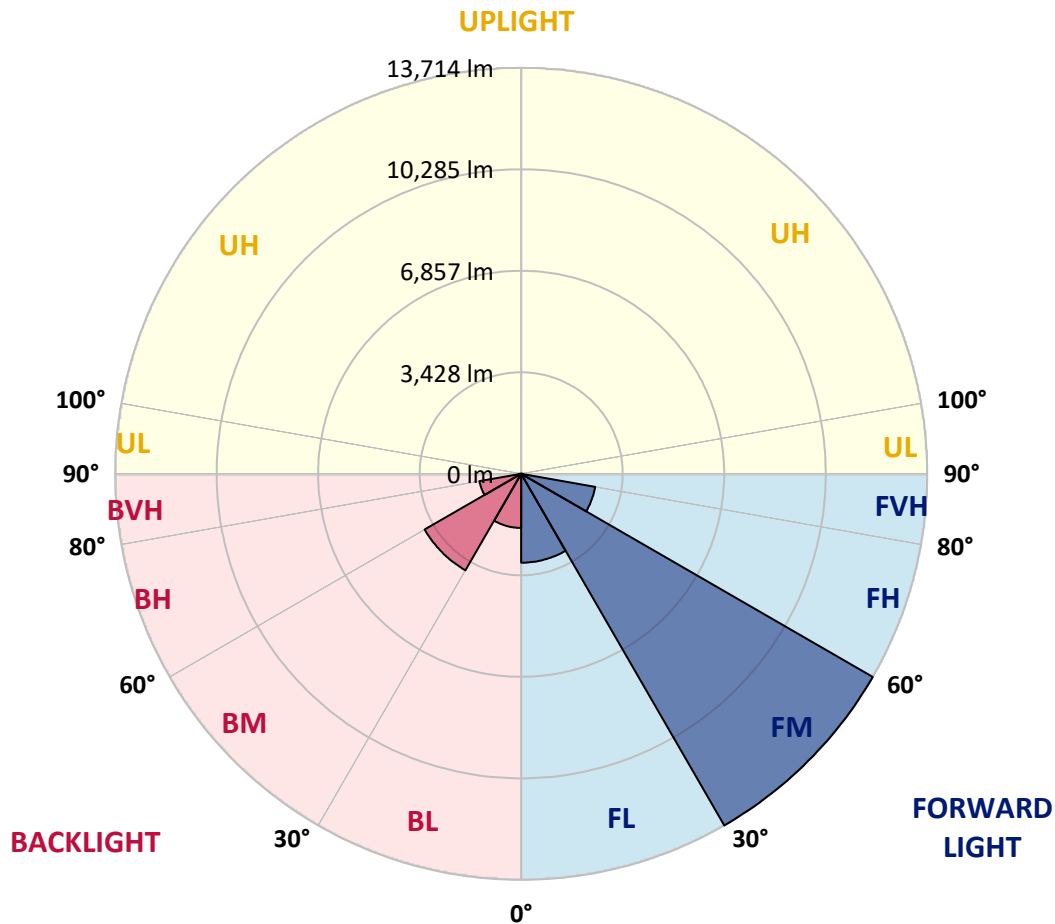
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3002.0	11.4			
FM	(30°-60°)	13713.6	51.9			
FH	(60°-80°)	2536.7	9.6			G2/5000
FVH	(80°-90°)	62.1	0.2			G1/100
BL	(0°-30°)	1827.7	6.9	B3/2500		
BM	(30°-60°)	3763.9	14.2	B3/5000		
BH	(60°-80°)	1429.1	5.4	B3/2500		G3/2500
BVH	(80°-90°)	82.1	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°	76°	85°
0°	5054.6	5054.6	5054.6	5054.6	5054.6	5054.6	5054.6	5054.6	5054.6	5054.6	5054.6
2.5°	5568.2	5479.2	5472.3	5448.4	5462.1	5400.4	5335.4	5249.7	5160.7	5215.5	5085.4
5°	5958.6	5838.8	5886.7	5804.5	5814.8	5732.6	5599.0	5499.7	5390.2	5325.1	5232.6
7.5°	6095.6	6105.9	6140.1	6126.4	6057.9	6057.9	5968.9	5794.2	5602.5	5564.8	5410.7
10°	6280.5	6283.9	6246.3	6256.6	6352.4	6307.9	6229.2	6153.8	5907.3	5862.7	5588.8
12.5°	6345.6	6283.9	6345.6	6400.4	6513.4	6575.0	6557.9	6503.1	6239.4	6208.6	5807.9
15°	6355.9	6318.2	6369.6	6492.8	6592.2	6852.4	6982.5	6944.9	6595.6	6599.0	6054.5
17.5°	6307.9	6359.3	6379.8	6486.0	6715.4	6958.6	7335.3	7386.6	7099.0	7054.5	6366.1
20°	6373.0	6335.3	6362.7	6458.6	6763.4	7143.5	7636.6	7975.6	7571.6	7540.7	6688.0
22.5°	6623.0	6571.6	6564.8	6626.4	6845.6	7239.4	7955.1	8564.7	8146.9	8164.0	7088.7
25°	6818.2	6845.6	6821.6	6818.2	6955.1	7383.2	8376.3	9266.7	8927.7	8828.3	7561.3
27.5°	7153.8	7218.8	7170.9	7236.0	7205.1	7599.0	8677.7	10044.0	9770.1	9636.5	7989.3
30°	7619.5	7653.7	7609.2	7609.2	7516.8	7900.3	8951.6	10855.6	10742.6	10561.1	8492.7
32.5°	8232.5	8283.9	8194.8	8143.4	8129.7	8348.9	9444.8	11657.0	11848.8	11694.6	9160.5
35°	9044.1	9013.3	8907.1	8859.2	8674.2	9037.2	10177.6	12578.2	13081.6	12807.6	9968.7
37.5°	9759.8	9711.9	9705.0	9437.9	9482.4	9780.4	10800.9	13276.8	14276.7	14198.0	10821.4
40°	10427.6	10472.1	10544.0	10393.3	10324.9	10653.6	11526.8	13811.0	15204.8	15173.9	11478.9
42.5°	11143.3	11102.2	11228.9	11102.2	10999.5	11465.2	12314.5	14180.8	16019.8	15766.4	12167.2
45°	12180.9	12050.8	12095.3	12105.6	12030.2	12201.5	12639.8	14447.9	16591.7	16564.3	12670.6
47.5°	13047.3	13050.7	12975.4	12917.2	12687.8	12859.0	13002.8	14615.7	17249.2	17204.7	12865.8
50°	13369.2	13324.7	13543.9	13670.6	13684.3	13335.0	13287.0	14708.2	17595.1	17399.9	13061.0
52.5°	12211.7	12252.8	12598.7	13352.1	13787.0	13824.7	13619.2	14900.0	17735.5	17694.4	13218.5
55°	9828.3	10026.9	10595.4	11465.2	12496.0	13629.5	13978.8	15098.6	17810.8	17776.6	13917.1
56°	8640.0	8794.1	9533.8	10215.3	11509.7	12920.6	13752.8	15310.9	17869.0	18030.0	14081.5
57.5°	6955.1	7133.2	7664.0	8438.0	9965.3	11571.4	13129.5	15050.7	17643.0	17704.6	14201.4
60°	4349.1	4366.2	5003.2	5513.4	6588.7	8157.1	10020.1	13095.3	16328.0	16239.0	12756.2
62.5°	2852.6	2856.0	3434.8	3852.6	4342.3	4701.8	5897.0	8684.5	12047.4	11889.8	9081.8
65°	2003.3	2047.8	2496.5	3054.6	3253.3	3064.9	3027.3	4578.5	6729.1	6503.1	4879.9
67.5°	1465.7	1469.1	1866.3	2465.6	2753.3	2332.1	1893.7	2236.2	2664.3	2657.4	2260.2
70°	969.1	1010.2	1315.0	1842.4	2171.1	1873.2	1547.9	1599.2	1695.1	1695.1	1681.4
72.5°	565.0	602.7	804.8	1167.8	1219.1	1171.2	1226.0	1369.8	1431.4	1428.0	1410.9
75°	321.9	339.0	383.5	486.3	606.1	715.7	900.6	1037.6	1099.3	1136.9	1092.4
77.5°	188.3	198.6	226.0	277.4	315.1	387.0	489.7	585.6	667.8	657.5	664.4
80°	99.3	99.3	126.7	164.4	219.2	274.0	325.3	380.1	424.6	434.9	445.2
82.5°	58.2	61.6	82.2	119.9	157.5	195.2	250.0	287.7	328.8	332.2	339.0
85°	30.8	34.2	51.4	78.8	106.2	119.9	123.3	116.4	126.7	119.9	137.0
87.5°	10.3	10.3	17.1	13.7	13.7	17.1	20.5	20.5	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°	5054.6	5054.6	5054.6	5054.6	5054.6	5054.6	5054.6	5054.6	5054.6	5054.6	5054.6
2.5°	5081.9	5081.9	5023.7	4914.1	4897.0	4852.5	4811.4	4808.0	4777.2	4749.8	4736.1
5°	5177.8	5071.7	4986.1	4886.8	4770.3	4715.5	4653.9	4585.4	4558.0	4585.4	4582.0
7.5°	5287.4	5198.4	4941.5	4756.6	4623.1	4568.3	4499.8	4427.9	4434.7	4434.7	4386.8
10°	5393.6	5273.7	4862.8	4626.5	4431.3	4390.2	4352.5	4379.9	4414.2	4421.0	4390.2
12.5°	5571.7	5301.1	4825.1	4496.4	4373.1	4284.0	4308.0	4383.4	4455.3	4434.7	4458.7
15°	5705.2	5325.1	4653.9	4362.8	4208.7	4249.8	4335.4	4386.8	4506.6	4492.9	4516.9
17.5°	5835.3	5338.8	4486.1	4184.7	4119.7	4232.7	4297.7	4445.0	4482.7	4564.9	4595.7
20°	6102.4	5366.2	4314.9	4075.1	4054.6	4184.7	4297.7	4366.2	4448.4	4520.3	4520.3
22.5°	6239.4	5352.5	4201.9	3931.3	3996.4	4078.6	4181.3	4297.7	4297.7	4366.2	4369.7
25°	6410.7	5297.7	4023.8	3862.8	3910.8	3989.5	4106.0	4064.9	4109.4	4109.4	4164.2
27.5°	6605.8	5181.3	3869.7	3739.5	3835.4	3921.0	3938.2	3910.8	3859.4	3852.6	3832.0
30°	6763.4	5037.4	3756.7	3698.5	3777.2	3825.2	3770.4	3712.2	3623.1	3616.3	3568.3
32.5°	6979.1	4859.4	3616.3	3595.7	3684.8	3688.2	3671.1	3582.0	3451.9	3397.1	3342.3
35°	7342.1	4756.6	3510.1	3540.9	3568.3	3558.0	3527.2	3431.3	3301.2	3277.2	3256.7
37.5°	7609.2	4681.3	3400.5	3438.2	3462.2	3475.9	3383.4	3277.2	3280.7	3232.7	3219.0
40°	7910.6	4633.3	3311.5	3328.6	3332.0	3376.6	3263.5	3212.2	3236.1	3205.3	3225.9
42.5°	8297.5	4647.0	3219.0	3205.3	3270.4	3253.3	3198.5	3130.0	3143.7	3051.2	3064.9
45°	8503.0	4739.5	3164.2	3102.6	3174.5	3171.1	3099.2	3034.1	2951.9	2773.8	2780.7
47.5°	8640.0	4763.5	3034.1	2993.0	3068.3	3112.9	3030.7	2880.0	2763.6	2636.9	2606.0
50°	8780.4	4808.0	2972.5	2886.8	2917.7	3023.8	2921.1	2777.3	2664.3	2551.2	2568.4
52.5°	8903.7	4893.6	2852.6	2725.9	2780.7	2897.1	2842.3	2667.7	2544.4	2451.9	2424.5
55°	9451.6	5085.4	2650.6	2486.2	2616.3	2763.6	2732.7	2520.4	2386.9	2338.9	2332.1
56°	9537.2	5092.2	2544.4	2404.0	2523.9	2719.0	2681.4	2455.4	2335.5	2260.2	2263.6
57.5°	9550.9	5010.0	2393.7	2328.7	2431.4	2654.0	2606.0	2404.0	2239.6	2171.1	2150.6
60°	8403.7	3910.8	2205.4	2164.3	2284.1	2455.4	2438.2	2263.6	2078.7	1999.9	2037.6
62.5°	5729.2	2866.3	2058.1	2051.3	2112.9	2280.7	2236.2	2078.7	1924.6	1873.2	1849.2
65°	3335.5	2174.6	1914.3	1886.9	1938.3	2027.3	2058.1	1893.7	1732.8	1698.5	1688.3
67.5°	1969.1	1797.9	1729.4	1684.9	1667.7	1722.5	1746.5	1650.6	1489.7	1441.7	1482.8
70°	1647.2	1599.2	1602.7	1527.3	1486.2	1448.6	1428.0	1342.4	1208.8	1147.2	1130.1
72.5°	1421.2	1400.6	1386.9	1318.4	1280.8	1195.1	1106.1	1020.5	921.2	869.8	873.2
75°	1085.6	1078.7	1085.6	1051.3	986.3	917.8	835.6	726.0	650.7	585.6	599.3
77.5°	647.2	667.8	678.0	664.4	637.0	575.3	523.9	452.0	380.1	328.8	321.9
80°	445.2	462.3	479.4	462.3	434.9	390.4	335.6	280.8	229.4	202.0	195.2
82.5°	339.0	356.1	366.4	349.3	315.1	267.1	229.4	191.8	150.7	123.3	116.4
85°	123.3	140.4	137.0	164.4	178.1	171.2	147.3	113.0	85.6	61.6	58.2
87.5°	34.2	30.8	34.2	34.2	34.2	30.8	27.4	27.4	27.4	17.1	13.7
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)