

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: P456385

Luminaire Tested: **GALN-SA7C-827-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36203 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

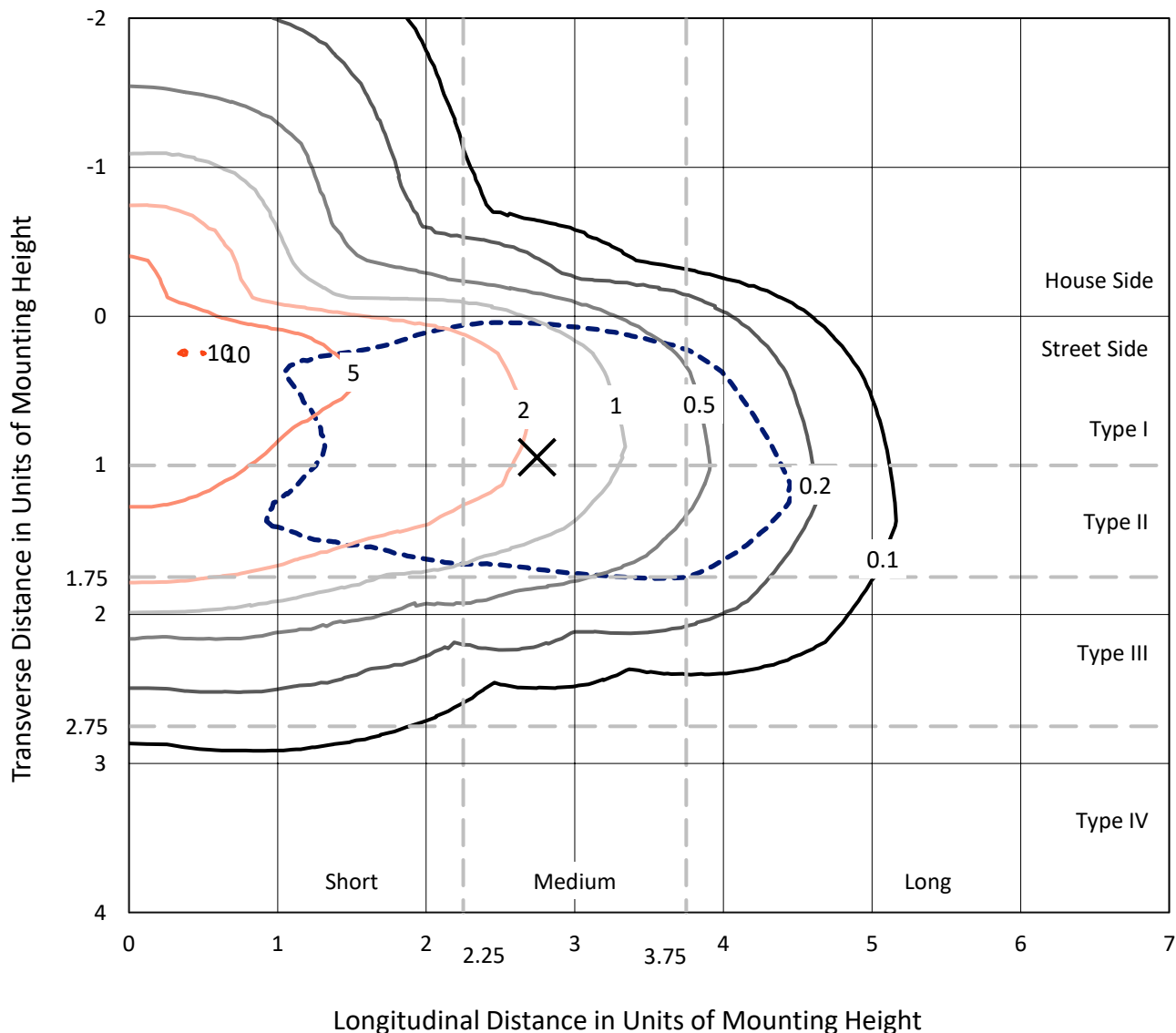
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

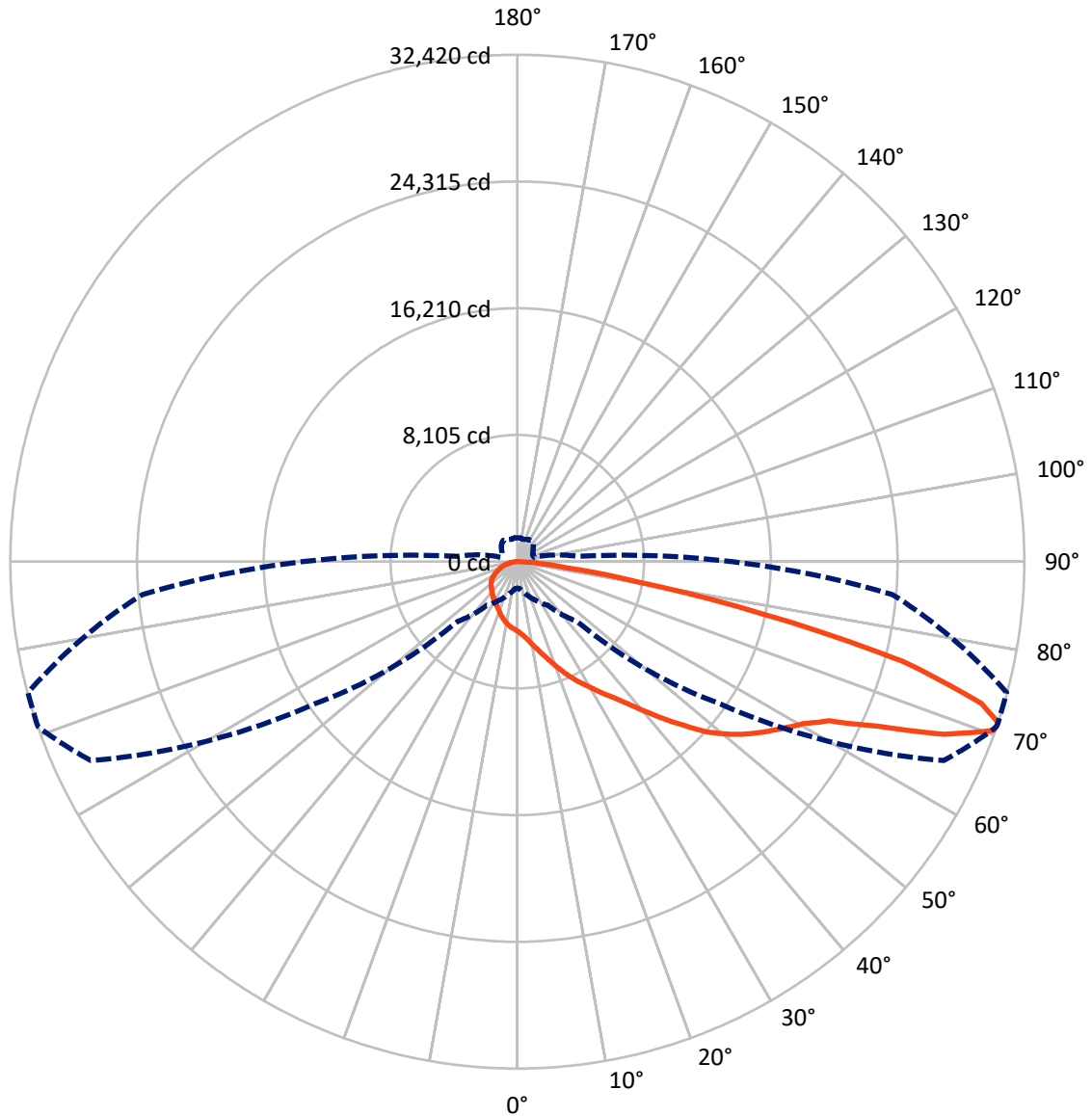
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6511.0	0.0	6511.0
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	29692.0	0.0	29692.0
	% Fixture	82.0	0.0	82.0
Total	Lumens	36203.0	0.0	36203.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.1	1.2
10°-20°	1449.4	4.0
20°-30°	2533.0	7.0
30°-40°	3767.5	10.4
40°-50°	5551.0	15.3
50°-60°	7771.4	21.5
60°-70°	8692.1	24.0
70°-80°	5309.5	14.7
80°-90°	683.0	1.9
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°	36203.0	100.0
0°-180°	36203.0	100.0

Coefficient of Utilization



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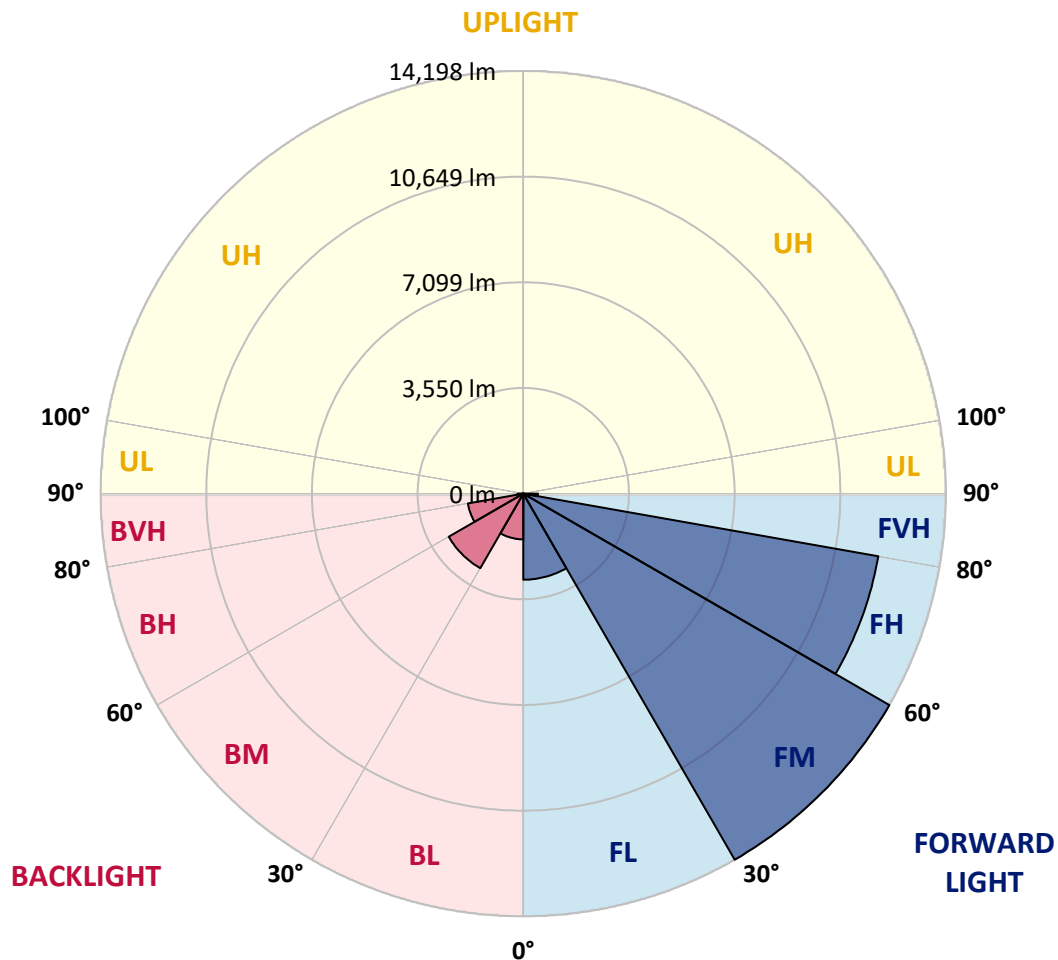
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2892.6	8.0			
FM (30°-60°)	14198.1	39.2			
FH (60°-80°)	12109.8	33.4			G5
FVH (80°-90°)	491.4	1.4			G3/500
BL (0°-30°)	1535.9	4.2	B3/2500		
BM (30°-60°)	2891.8	8.0	B3/5000		
BH (60°-80°)	1891.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	191.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2
2.5°	4932.7	4908.8	4910.8	4877.0	4833.2	4785.4	4717.8	4658.1	4610.3	4582.5	4500.9
5°	5466.0	5442.1	5412.2	5338.6	5306.8	5189.4	5040.1	4904.8	4801.4	4743.7	4580.5
7.5°	5897.7	5891.8	5883.8	5842.0	5760.4	5597.3	5469.9	5235.1	5081.9	4972.5	4693.9
10°	6164.4	6174.3	6180.3	6188.3	6154.4	6068.9	5893.8	5597.3	5402.3	5263.0	4841.2
12.5°	6299.7	6309.6	6343.5	6417.1	6462.8	6452.9	6309.6	6019.1	5750.5	5567.4	4998.4
15°	6383.3	6399.2	6458.9	6556.4	6709.6	6807.1	6737.4	6468.8	6174.3	5957.4	5185.4
17.5°	6474.8	6492.7	6558.4	6697.6	6898.6	7109.5	7185.1	6954.3	6634.0	6375.3	5394.3
20°	6526.5	6550.4	6643.9	6827.0	7061.8	7368.2	7618.9	7497.5	7147.3	6860.8	5635.1
22.5°	6610.1	6630.0	6709.6	6904.6	7185.1	7569.2	8052.7	8026.8	7718.4	7348.3	5899.7
25°	6836.9	6868.8	6908.6	7026.0	7296.6	7774.1	8412.8	8591.9	8271.6	7857.7	6142.5
27.5°	7264.7	7290.6	7288.6	7304.5	7457.7	7951.2	8725.2	9151.1	8820.7	8373.0	6377.3
30°	7752.2	7762.2	7770.1	7734.3	7768.1	8132.3	9011.8	9704.2	9373.9	8902.3	6582.2
32.5°	8345.2	8365.1	8297.4	8205.9	8178.0	8400.9	9248.6	10257.4	10028.5	9439.6	6785.2
35°	9045.6	9097.3	8960.0	8798.9	8685.4	8786.9	9566.9	10822.5	10699.1	10126.0	7053.8
37.5°	9845.5	9909.2	9781.8	9465.4	9304.3	9332.1	9982.8	11520.9	11546.8	10908.0	7453.8
40°	10500.1	10583.7	10587.7	10140.0	9895.2	9927.1	10510.1	12273.0	12569.5	11875.1	7925.3
42.5°	10931.9	11013.5	11099.1	10836.4	10579.7	10760.8	11124.9	13088.8	13719.6	13049.1	8584.0
45°	11405.5	11479.1	11526.9	11407.5	11264.2	11733.8	11867.1	13956.4	14945.3	14360.3	9304.3
47.5°	11954.7	12036.2	12082.0	11968.6	11914.9	12587.4	12667.0	14766.2	16254.6	15633.8	10100.2
50°	12686.9	12748.6	12724.7	12653.1	12641.1	13242.1	13435.1	15524.4	17335.1	17004.8	10925.9
52.5°	13598.2	13671.9	13697.7	13596.2	13550.5	13709.7	14053.9	16214.8	18318.0	18182.7	11807.4
55°	14149.4	14266.8	14660.8	14820.0	14929.4	14314.6	14720.5	16976.9	19199.5	19424.3	12754.6
57.5°	13443.0	13594.3	14475.7	15271.6	16300.4	15826.8	15665.6	17772.8	20081.0	20628.2	13888.7
60°	11719.9	11753.7	12889.9	14356.3	16425.7	17770.8	17637.5	19038.3	21036.1	21841.9	15383.1
62.5°	8130.3	8201.9	9545.0	11885.0	14877.7	18471.2	20992.3	21223.1	22405.1	23658.6	17573.8
65°	4192.5	4099.0	5322.7	7469.7	11216.5	16807.8	23710.4	25240.5	25373.8	26500.0	20658.0
67.5°	2580.8	2622.5	3195.6	4361.6	6632.0	12215.3	23425.8	30149.3	29446.9	29988.1	23521.3
70°	1938.1	1989.8	2383.8	2984.7	4043.3	6984.2	18839.3	31339.2	32320.2	32180.9	24392.9
71°	1685.4	1739.1	2149.0	2716.1	3396.6	5390.3	15872.6	30093.6	32419.7	32395.8	24064.5
72.5°	1436.6	1470.5	1790.8	2300.2	2863.3	3778.6	11924.8	26989.5	31036.8	31830.7	22892.5
75°	1128.2	1154.1	1297.3	1755.0	2254.4	2320.1	6399.2	20234.2	25491.2	27003.5	19058.2
77.5°	919.3	937.2	1010.8	1303.3	1739.1	1643.6	3356.8	13170.4	15970.1	17492.3	11226.4
80°	730.3	750.2	793.9	883.5	1303.3	1172.0	1601.8	6673.8	7714.4	7698.5	4481.0
82.5°	567.1	573.1	624.8	648.7	891.4	831.7	867.5	2825.5	3129.9	3233.4	1617.7
85°	358.2	376.1	553.2	497.4	533.3	487.5	427.8	1122.2	1382.9	1363.0	646.7
87.5°	109.4	115.4	187.0	210.9	236.8	212.9	157.2	330.3	403.9	437.8	161.2
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°	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2
2.5°	4469.1	4447.2	4369.6	4305.9	4246.2	4180.6	4124.8	4108.9	4095.0	4089.0	4087.0
5°	4510.9	4445.2	4292.0	4166.6	4067.1	3975.6	3917.9	3892.0	3866.2	3866.2	3874.1
7.5°	4570.6	4451.2	4214.4	4027.3	3902.0	3816.4	3774.6	3770.7	3776.6	3782.6	3784.6
10°	4636.2	4447.2	4101.0	3868.2	3756.7	3716.9	3718.9	3752.7	3784.6	3808.5	3812.4
12.5°	4699.9	4423.3	3967.6	3718.9	3647.3	3655.2	3711.0	3786.6	3848.3	3882.1	3884.1
15°	4771.5	4385.5	3806.5	3577.6	3553.8	3615.5	3718.9	3834.3	3927.8	3983.6	3989.5
17.5°	4831.2	4321.8	3637.3	3440.3	3470.2	3583.6	3726.9	3876.1	3989.5	4059.2	4071.1
20°	4898.9	4240.2	3462.2	3309.0	3394.6	3547.8	3711.0	3872.1	3989.5	4057.2	4073.1
22.5°	4952.6	4124.8	3295.1	3201.6	3326.9	3504.0	3657.2	3786.6	3882.1	3917.9	3941.8
25°	4974.5	3979.6	3137.9	3114.0	3273.2	3432.4	3535.9	3609.5	3639.3	3635.3	3645.3
27.5°	4962.5	3812.4	3002.6	3044.4	3205.6	3321.0	3372.7	3366.7	3313.0	3263.3	3287.1
30°	4912.8	3613.5	2889.2	2972.7	3118.0	3181.7	3173.7	3096.1	2994.6	2901.1	2907.1
32.5°	4823.3	3398.6	2783.7	2891.2	2994.6	3022.5	2968.8	2867.3	2722.0	2600.7	2582.7
35°	4747.6	3193.6	2690.2	2797.6	2871.3	2857.3	2805.6	2674.3	2543.0	2435.5	2417.6
37.5°	4735.7	3018.5	2600.7	2692.2	2734.0	2714.1	2650.4	2539.0	2491.2	2409.6	2399.7
40°	4799.4	2895.1	2509.1	2580.8	2600.7	2584.7	2515.1	2451.4	2495.2	2475.3	2475.3
42.5°	4972.5	2829.5	2427.5	2469.3	2485.2	2497.2	2447.4	2393.7	2447.4	2355.9	2326.1
45°	5247.1	2831.5	2353.9	2359.9	2407.6	2449.4	2415.6	2336.0	2308.2	2125.1	2089.3
47.5°	5651.0	2899.1	2294.2	2256.4	2342.0	2411.6	2363.9	2248.5	2125.1	2003.7	1981.8
50°	6122.6	3020.5	2240.5	2149.0	2254.4	2363.9	2328.1	2192.8	2065.4	1991.8	1977.9
52.5°	6645.9	3173.7	2174.8	2029.6	2147.0	2342.0	2336.0	2184.8	2009.7	1959.9	1948.0
55°	7292.6	3324.9	2093.3	1890.3	2051.5	2324.1	2314.1	2119.1	1997.8	1961.9	1958.0
57.5°	8044.7	3543.8	1975.9	1749.0	1942.0	2250.5	2228.6	2079.3	1958.0	1932.1	1930.1
60°	9256.5	3884.1	1808.7	1619.7	1830.6	2121.1	2149.0	2011.7	1894.3	1888.3	1886.3
62.5°	10850.3	4361.6	1635.6	1486.4	1701.3	1954.0	2033.6	1920.1	1826.6	1856.5	1860.5
65°	13051.0	4763.6	1456.5	1373.0	1558.0	1792.8	1924.1	1834.6	1751.0	1808.7	1808.7
67.5°	14485.7	4771.5	1293.4	1255.6	1412.8	1657.5	1808.7	1733.1	1653.5	1751.0	1755.0
70°	14187.2	4180.6	1158.1	1132.2	1271.5	1512.2	1681.4	1621.7	1530.1	1617.7	1585.9
71°	13705.7	3852.2	1104.3	1084.4	1215.8	1442.6	1621.7	1571.9	1480.4	1538.1	1520.2
72.5°	12937.6	3344.8	1016.8	1020.8	1132.2	1355.0	1538.1	1486.4	1394.8	1426.7	1420.7
75°	10935.9	2921.0	869.5	887.4	973.0	1205.8	1371.0	1331.2	1237.7	1237.7	1231.7
77.5°	6836.9	2041.5	722.3	732.2	825.8	1032.7	1178.0	1144.1	1054.6	1024.7	1016.8
80°	2550.9	1054.6	565.1	577.0	634.7	813.8	975.0	943.2	851.6	817.8	786.0
82.5°	965.0	529.3	415.9	405.9	467.6	620.8	764.1	726.3	654.6	573.1	549.2
85°	364.1	262.7	254.7	246.7	274.6	368.1	473.6	465.6	390.0	332.3	326.3
87.5°	95.5	85.6	99.5	73.6	77.6	69.6	71.6	29.8	13.9	6.0	4.0
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)