

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: P455341

Luminaire Tested: **GALN-SA6C-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455341
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-SA6C-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38184 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

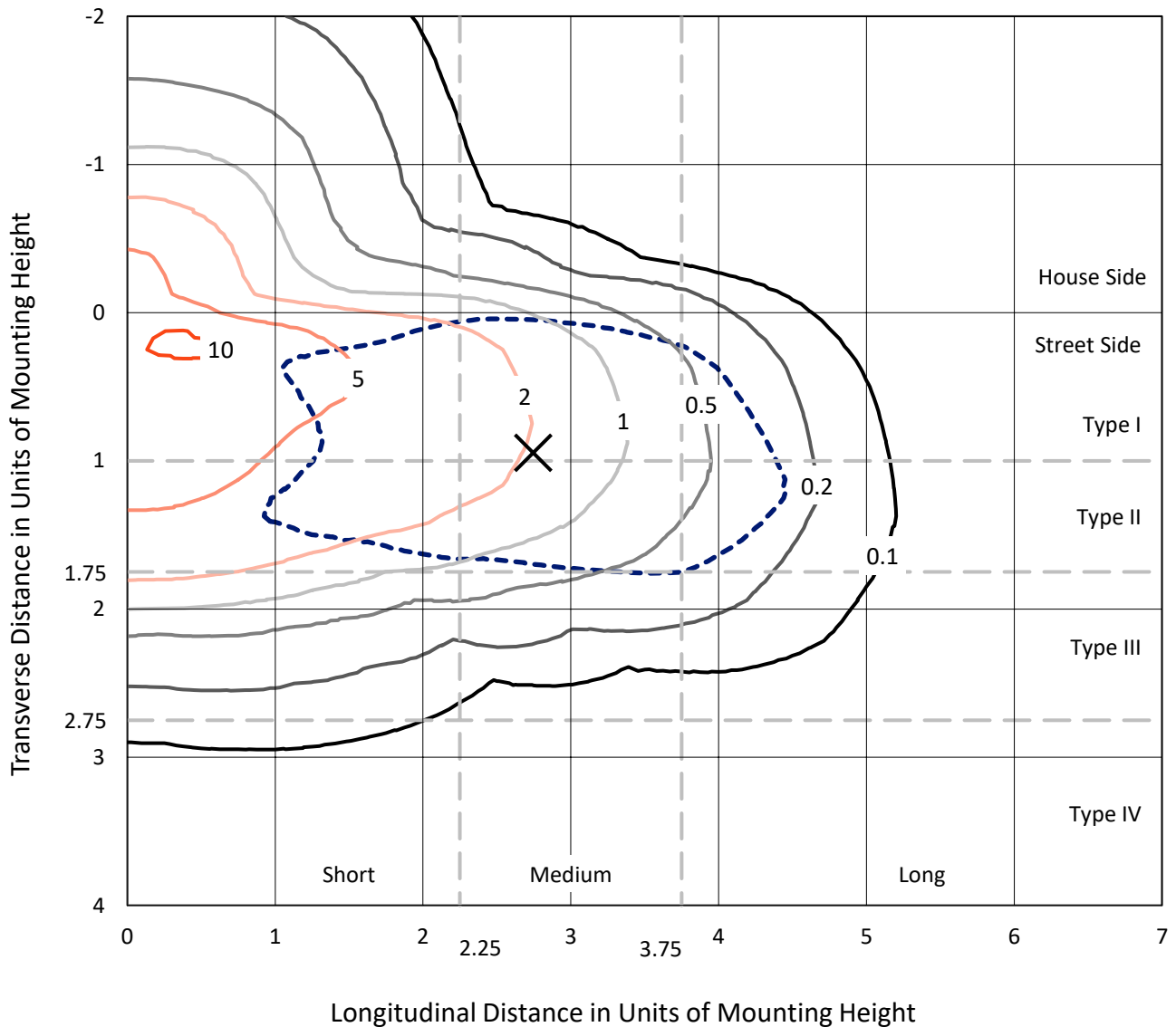
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

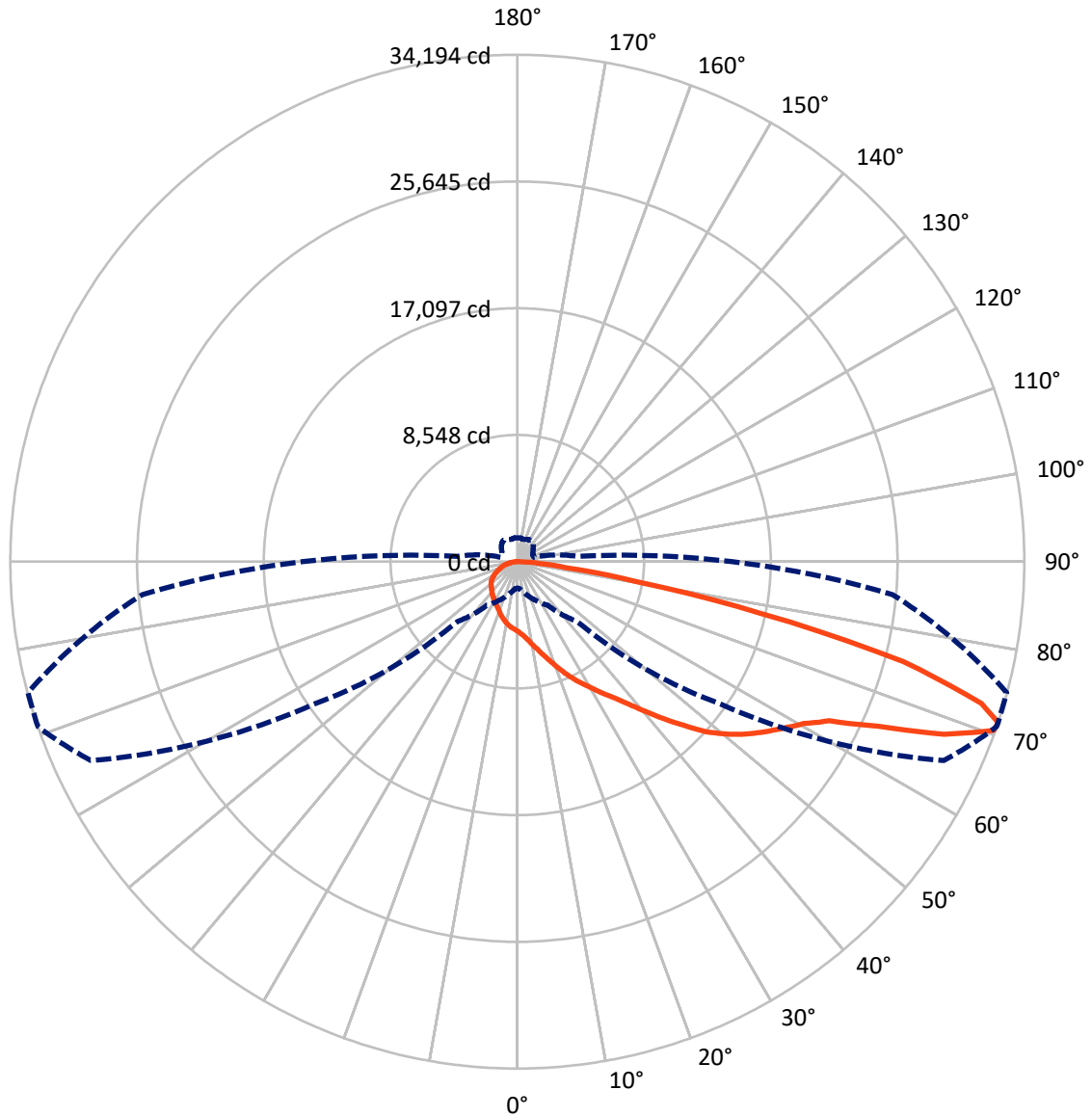
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	6867.3	0.0	6867.3
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	31316.7	0.0	31316.7
	% Fixture	82.0	0.0	82.0
Total	Lumens	38184.0	0.0	38184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.5	1.2
10°-20°	1528.7	4.0
20°-30°	2671.6	7.0
30°-40°	3973.7	10.4
40°-50°	5854.7	15.3
50°-60°	8196.7	21.5
60°-70°	9167.7	24.0
70°-80°	5600.0	14.7
80°-90°	720.4	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°	38184.0	100.0
0°-180°	38184.0	100.0

Coefficient of Utilization



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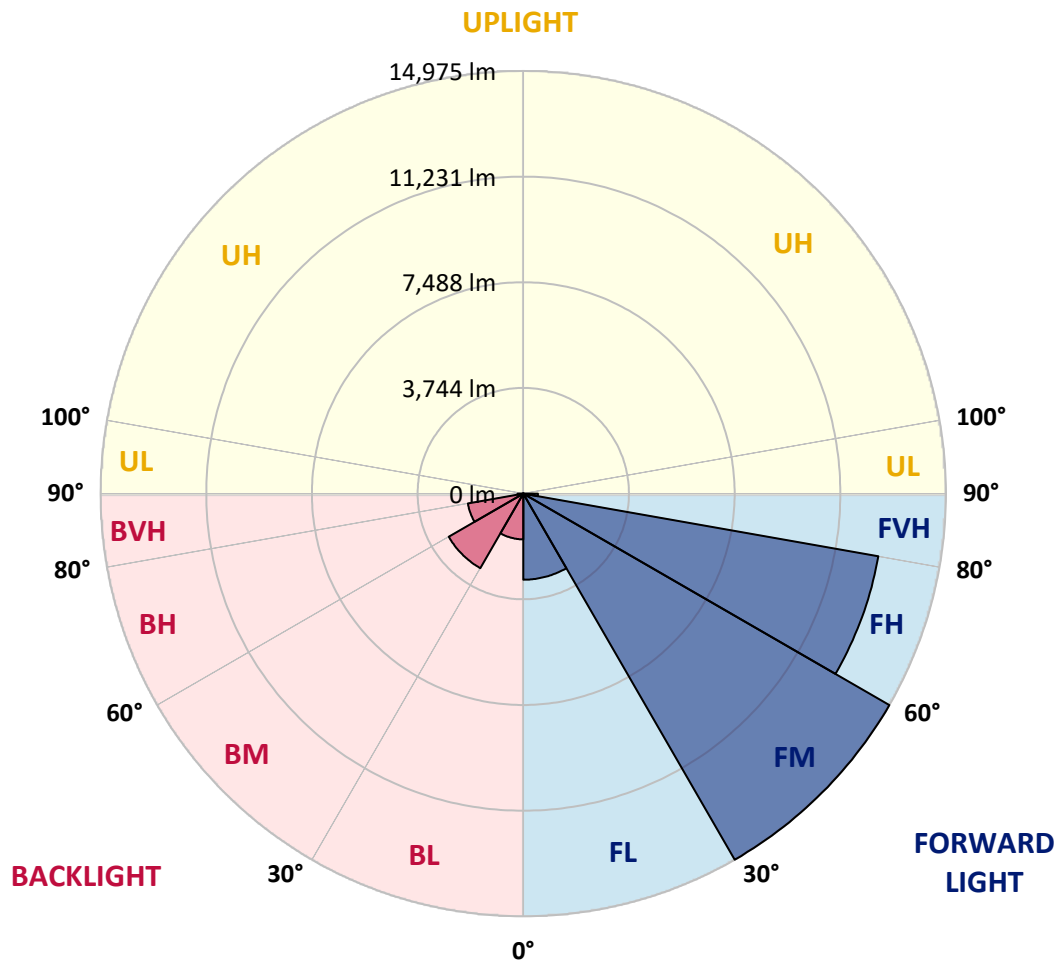
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3050.9	8.0			
FM (30°-60°)	14975.0	39.2			
FH (60°-80°)	12772.4	33.4			G5
FVH (80°-90°)	518.3	1.4			G4/750
BL (0°-30°)	1620.0	4.2	B3/2500		
BM (30°-60°)	3050.0	8.0	B3/5000		
BH (60°-80°)	1995.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	202.0	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°	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3
2.5°	5202.6	5177.4	5179.5	5143.8	5097.7	5047.3	4975.9	4913.0	4862.6	4833.2	4747.2
5°	5765.0	5739.9	5708.4	5630.7	5597.2	5473.3	5315.9	5173.2	5064.1	5003.2	4831.1
7.5°	6220.5	6214.2	6205.8	6161.7	6075.7	5903.6	5769.2	5521.6	5360.0	5244.6	4950.8
10°	6501.7	6512.2	6518.5	6526.9	6491.2	6400.9	6216.3	5903.6	5697.9	5551.0	5106.1
12.5°	6644.4	6654.9	6690.6	6768.2	6816.5	6806.0	6654.9	6348.5	6065.2	5872.1	5271.9
15°	6732.5	6749.3	6812.3	6915.1	7076.7	7179.6	7106.1	6822.8	6512.2	6283.4	5469.1
17.5°	6829.1	6848.0	6917.2	7064.1	7276.1	7498.6	7578.3	7334.9	6997.0	6724.1	5689.5
20°	6883.6	6908.8	7007.5	7200.5	7448.2	7771.4	8035.8	7907.8	7538.4	7236.2	5943.4
22.5°	6971.8	6992.8	7076.7	7282.4	7578.3	7983.3	8493.3	8466.0	8140.7	7750.4	6222.6
25°	7211.0	7244.6	7286.6	7410.4	7695.8	8199.5	8873.2	9062.1	8724.2	8287.7	6478.6
27.5°	7662.2	7689.5	7687.4	7704.2	7865.8	8386.3	9202.7	9651.8	9303.4	8831.2	6726.2
30°	8176.4	8186.9	8195.3	8157.5	8193.2	8577.3	9504.9	10235.2	9886.8	9389.5	6942.4
32.5°	8801.8	8822.8	8751.5	8654.9	8625.5	8860.6	9754.6	10818.7	10577.3	9956.1	7156.5
35°	9540.6	9595.1	9450.3	9280.3	9160.7	9267.7	10090.4	11414.7	11284.6	10680.1	7439.8
37.5°	10384.2	10451.4	10317.1	9983.4	9813.4	9842.8	10529.0	12151.3	12178.6	11504.9	7861.6
40°	11074.7	11162.8	11167.0	10694.8	10436.7	10470.3	11085.2	12944.6	13257.3	12524.9	8359.0
42.5°	11530.1	11616.1	11706.4	11429.4	11158.6	11349.6	11733.7	13805.1	14470.3	13763.1	9053.7
45°	12029.6	12107.2	12157.6	12031.7	11880.6	12375.9	12516.5	14720.1	15763.1	15146.1	9813.4
47.5°	12608.8	12694.9	12743.1	12623.5	12566.8	13276.2	13360.1	15574.2	17144.0	16489.3	10652.9
50°	13381.1	13446.2	13421.0	13345.5	13332.9	13966.7	14170.2	16373.8	18283.6	17935.2	11523.8
52.5°	14342.3	14420.0	14447.3	14340.2	14292.0	14459.8	14822.9	17102.1	19320.4	19177.7	12453.5
55°	14923.7	15047.5	15463.0	15630.9	15746.3	15097.8	15526.0	17905.9	20250.1	20487.2	13452.5
57.5°	14178.6	14338.1	15267.8	16107.3	17192.3	16692.8	16522.8	18745.3	21179.8	21756.9	14648.7
60°	12361.2	12396.9	13595.2	15141.9	17324.5	18743.2	18602.6	20080.1	22187.2	23037.1	16224.8
62.5°	8575.2	8650.7	10067.3	12535.4	15691.8	19482.0	22141.0	22384.4	23631.0	24953.2	18535.5
65°	4421.9	4323.3	5613.9	7878.4	11830.2	17727.5	25007.8	26621.6	26762.3	27950.1	21788.4
67.5°	2722.0	2766.0	3370.5	4600.3	6994.9	12883.7	24707.7	31799.1	31058.2	31629.1	24808.4
70°	2044.1	2098.7	2514.2	3148.0	4264.5	7366.3	19870.2	33054.1	34088.7	33941.8	25727.6
71°	1777.6	1834.2	2266.6	2864.7	3582.4	5685.3	16741.1	31740.3	34193.7	34168.5	25381.3
72.5°	1515.2	1550.9	1888.8	2426.1	3020.0	3985.4	12577.3	28466.4	32735.1	33572.4	24145.2
75°	1189.9	1217.2	1368.3	1851.0	2377.8	2447.1	6749.3	21341.4	26886.1	28481.1	20101.1
77.5°	969.6	988.5	1066.1	1374.6	1834.2	1733.5	3540.5	13891.1	16843.9	18449.4	11840.7
80°	770.2	791.2	837.4	931.8	1374.6	1236.1	1689.4	7038.9	8136.5	8119.8	4726.2
82.5°	598.1	604.4	659.0	684.2	940.2	877.2	915.0	2980.1	3301.2	3410.3	1706.2
85°	377.8	396.6	583.4	524.7	562.4	514.2	451.2	1183.7	1458.6	1437.6	682.1
87.5°	115.4	121.7	197.3	222.5	249.7	224.6	165.8	348.4	426.0	461.7	170.0
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°	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3
2.5°	4713.6	4690.5	4608.7	4541.5	4478.6	4409.3	4350.5	4333.8	4319.1	4312.8	4310.7
5°	4757.7	4688.4	4526.8	4394.6	4289.7	4193.1	4132.3	4105.0	4077.7	4077.7	4086.1
7.5°	4820.6	4694.7	4445.0	4247.7	4115.5	4025.3	3981.2	3977.0	3983.3	3989.6	3991.7
10°	4889.9	4690.5	4325.4	4079.8	3962.3	3920.3	3922.4	3958.1	3991.7	4016.9	4021.1
12.5°	4957.1	4665.3	4184.8	3922.4	3846.9	3855.3	3914.0	3993.8	4058.8	4094.5	4096.6
15°	5032.6	4625.5	4014.8	3773.4	3748.2	3813.3	3922.4	4044.1	4142.8	4201.5	4207.8
17.5°	5095.6	4558.3	3836.4	3628.6	3660.1	3779.7	3930.8	4088.2	4207.8	4281.3	4293.9
20°	5166.9	4472.3	3651.7	3490.1	3580.3	3741.9	3914.0	4084.0	4207.8	4279.2	4296.0
22.5°	5223.6	4350.5	3475.4	3376.8	3509.0	3695.8	3857.4	3993.8	4094.5	4132.3	4157.5
25°	5246.7	4197.3	3309.6	3284.4	3452.3	3620.2	3729.3	3807.0	3838.5	3834.3	3844.8
27.5°	5234.1	4021.1	3166.9	3211.0	3381.0	3502.7	3557.2	3551.0	3494.3	3441.8	3467.0
30°	5181.6	3811.2	3047.3	3135.4	3288.6	3355.8	3347.4	3265.5	3158.5	3059.9	3066.2
32.5°	5087.2	3584.5	2936.0	3049.4	3158.5	3187.9	3131.2	3024.2	2871.0	2743.0	2724.1
35°	5007.4	3368.4	2837.4	2950.7	3028.4	3013.7	2959.1	2820.6	2682.1	2568.8	2549.9
37.5°	4994.8	3183.7	2743.0	2839.5	2883.6	2862.6	2795.4	2677.9	2627.5	2541.5	2531.0
40°	5062.0	3053.6	2646.4	2722.0	2743.0	2726.2	2652.7	2585.6	2631.7	2610.7	2610.7
42.5°	5244.6	2984.3	2560.4	2604.5	2621.2	2633.8	2581.4	2524.7	2581.4	2484.8	2453.3
45°	5534.2	2986.4	2482.7	2489.0	2539.4	2583.5	2547.8	2463.8	2434.5	2241.4	2203.6
47.5°	5960.2	3057.8	2419.8	2379.9	2470.1	2543.6	2493.2	2371.5	2241.4	2113.4	2090.3
50°	6457.6	3185.8	2363.1	2266.6	2377.8	2493.2	2455.4	2312.7	2178.4	2100.8	2086.1
52.5°	7009.6	3347.4	2293.8	2140.6	2264.5	2470.1	2463.8	2304.3	2119.7	2067.2	2054.6
55°	7691.6	3506.9	2207.8	1993.7	2163.7	2451.2	2440.8	2235.1	2107.1	2069.3	2065.1
57.5°	8484.9	3737.7	2084.0	1844.7	2048.3	2373.6	2350.5	2193.1	2065.1	2037.8	2035.7
60°	9763.0	4096.6	1907.7	1708.3	1930.8	2237.2	2266.6	2121.8	1997.9	1991.6	1989.5
62.5°	11444.1	4600.3	1725.1	1567.7	1794.4	2060.9	2144.8	2025.2	1926.6	1958.1	1962.3
65°	13765.2	5024.2	1536.2	1448.1	1643.3	1890.9	2029.4	1935.0	1846.8	1907.7	1907.7
67.5°	15278.3	5032.6	1364.1	1324.3	1490.1	1748.2	1907.7	1827.9	1744.0	1846.8	1851.0
70°	14963.5	4409.3	1221.4	1194.1	1341.1	1595.0	1773.4	1710.4	1613.9	1706.2	1672.6
71°	14455.6	4063.0	1164.8	1143.8	1282.3	1521.5	1710.4	1658.0	1561.4	1622.3	1603.4
72.5°	13645.6	3527.9	1072.4	1076.6	1194.1	1429.2	1622.3	1567.7	1471.2	1504.7	1498.5
75°	11534.3	3080.8	917.1	936.0	1026.3	1271.8	1446.0	1404.0	1305.4	1305.4	1299.1
77.5°	7211.0	2153.2	761.8	772.3	870.9	1089.2	1242.4	1206.7	1112.3	1080.8	1072.4
80°	2690.5	1112.3	596.0	608.6	669.5	858.4	1028.3	994.8	898.2	862.6	829.0
82.5°	1017.9	558.2	438.6	428.1	493.2	654.8	805.9	766.0	690.5	604.4	579.2
85°	384.1	277.0	268.6	260.2	289.6	388.3	499.5	491.1	411.3	350.5	344.2
87.5°	100.7	90.2	104.9	77.7	81.8	73.5	75.6	31.5	14.7	6.3	4.2
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)