

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: P455312

Luminaire Tested: **GALN-SA6C-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455312
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-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 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: 35064 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

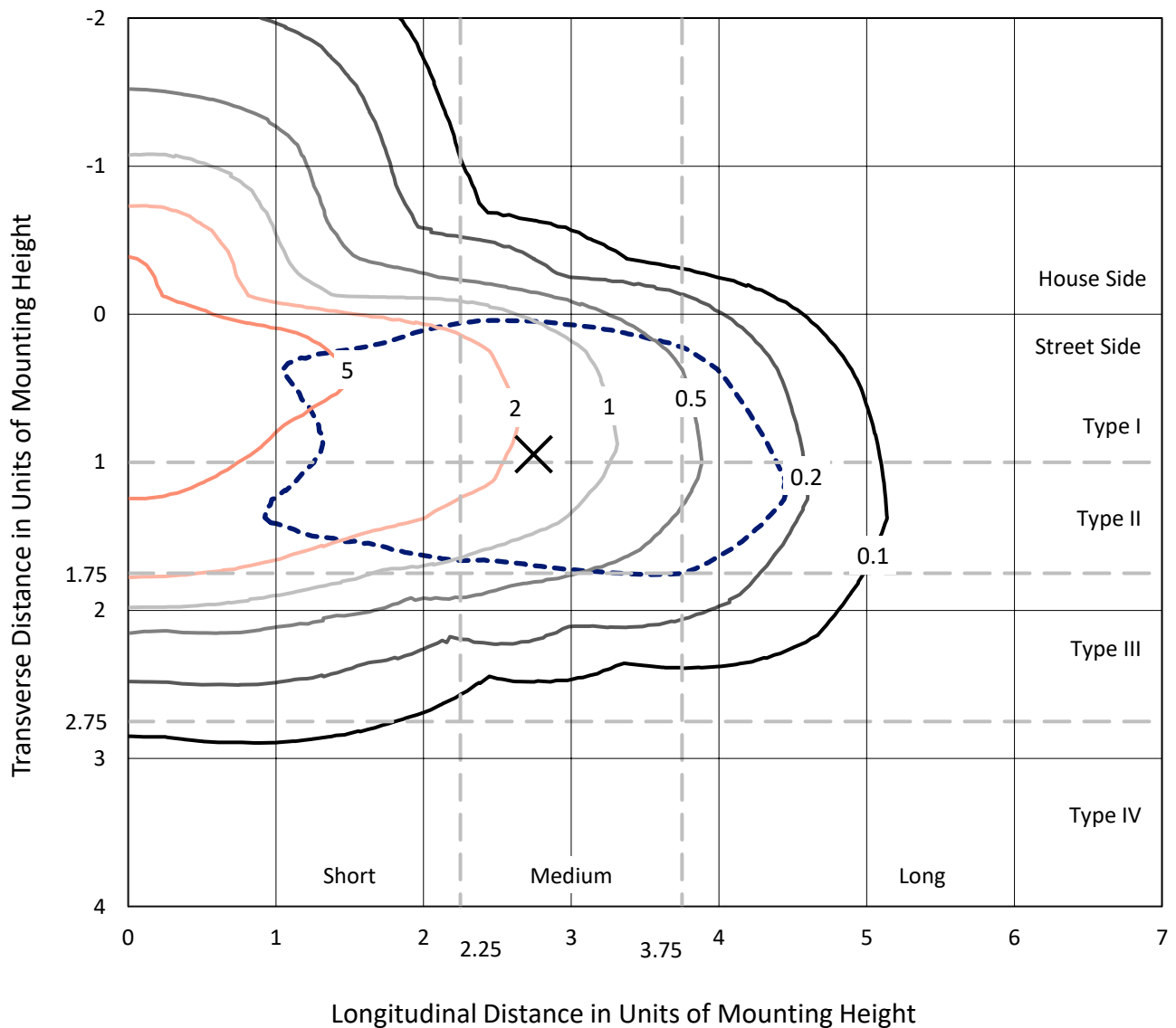
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

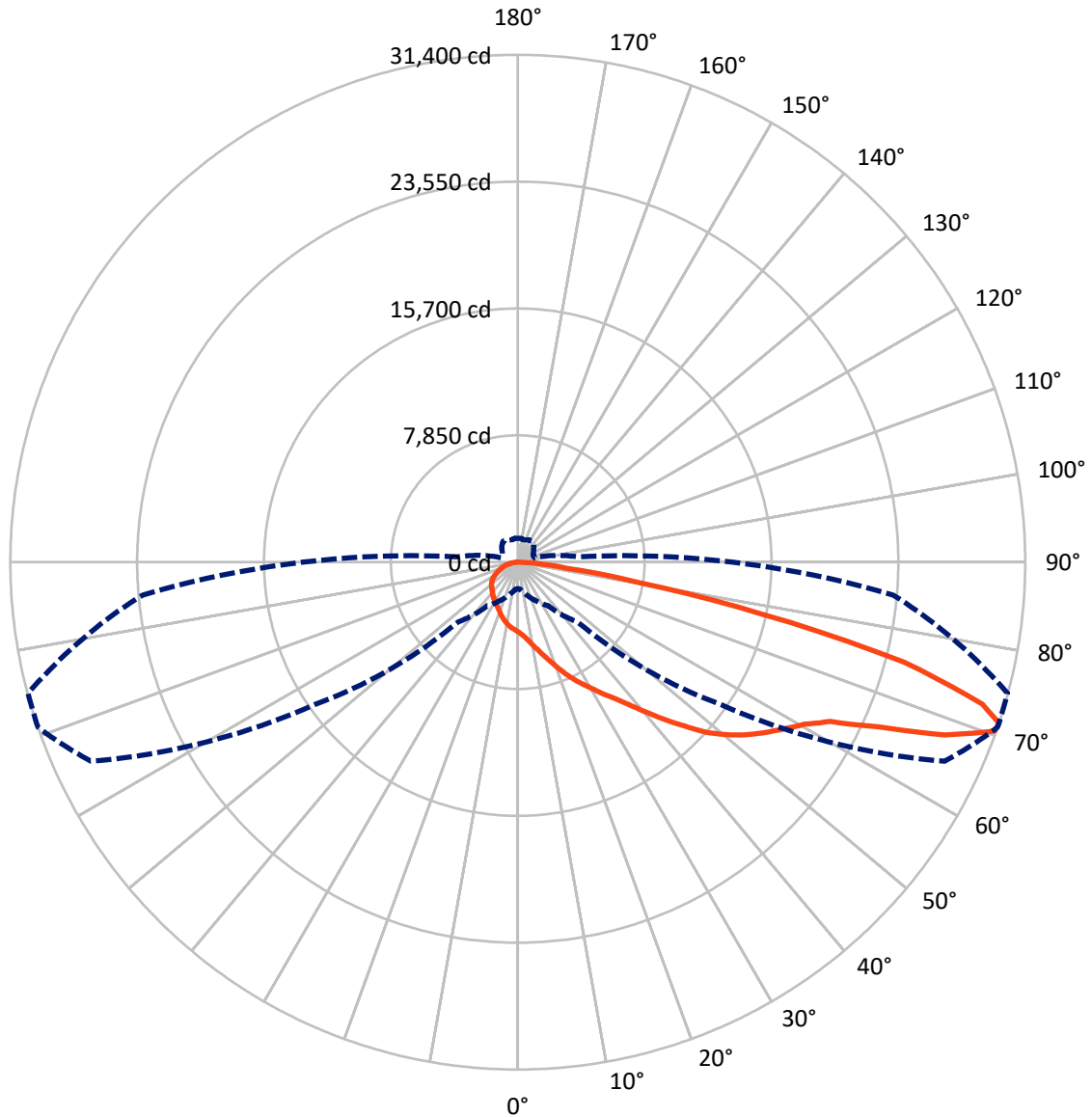
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	6306.2	0.0	6306.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	28757.8	0.0	28757.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	35064.0	0.0	35064.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.1	1.2
10°-20°	1403.8	4.0
20°-30°	2453.3	7.0
30°-40°	3649.0	10.4
40°-50°	5376.3	15.3
50°-60°	7526.9	21.5
60°-70°	8418.6	24.0
70°-80°	5142.4	14.7
80°-90°	661.5	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°	35064.0	100.0
0°-180°	35064.0	100.0

Coefficient of Utilization



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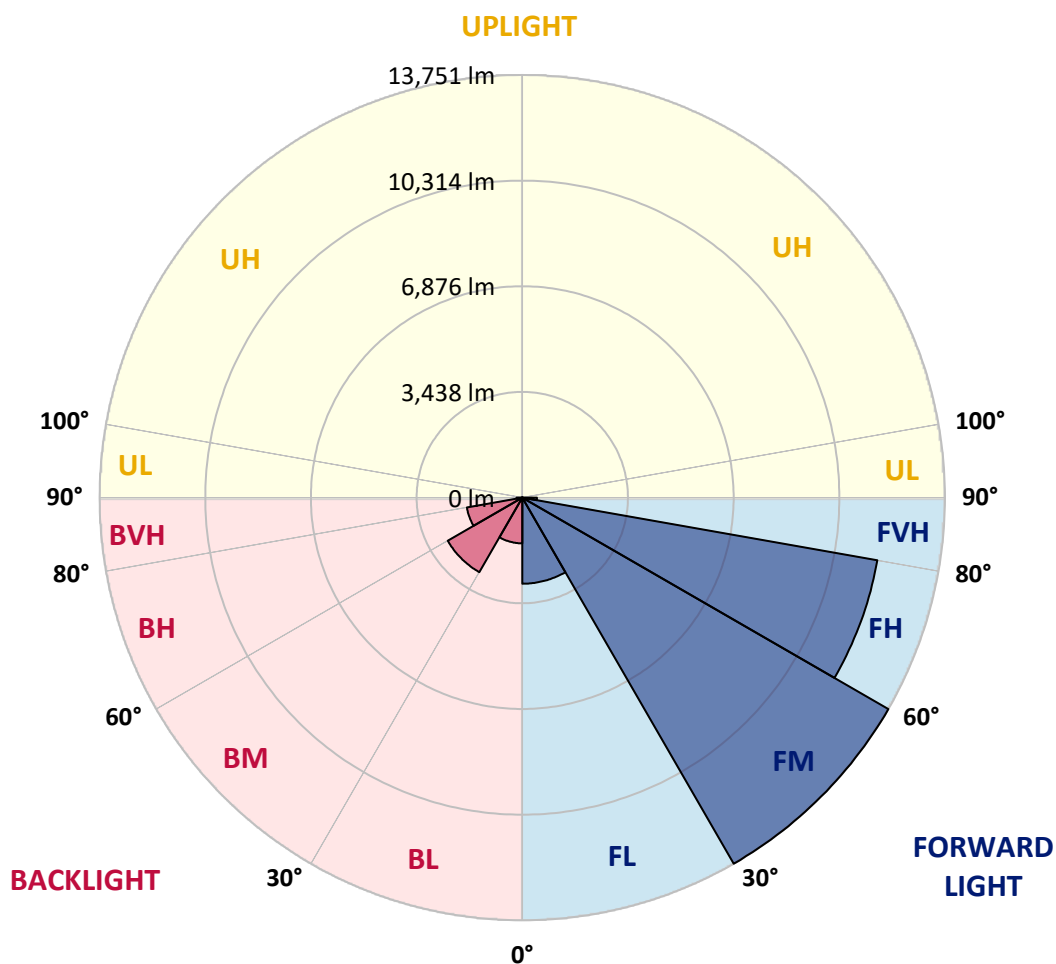
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2801.6	8.0			
FM	(30°-60°)	13751.4	39.2			
FH	(60°-80°)	11728.8	33.4			G4/12000
FVH	(80°-90°)	476.0	1.4			G3/500
BL	(0°-30°)	1487.6	4.2	B3/2500		
BM	(30°-60°)	2800.8	8.0	B3/5000		
BH	(60°-80°)	1832.2	5.2	B3/2500		G3/2500
BVH	(80°-90°)	185.5	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4
2.5°	4777.5	4754.4	4756.3	4723.5	4681.1	4634.9	4569.4	4511.6	4465.3	4438.3	4359.3
5°	5294.0	5270.9	5242.0	5170.6	5139.8	5026.1	4881.6	4750.5	4650.3	4594.4	4436.4
7.5°	5712.2	5706.4	5698.7	5658.2	5579.2	5421.2	5297.8	5070.4	4922.0	4816.0	4546.2
10°	5970.4	5980.1	5985.9	5993.6	5960.8	5877.9	5708.3	5421.2	5232.3	5097.4	4688.9
12.5°	6101.5	6111.1	6143.9	6215.2	6259.5	6249.9	6111.1	5829.7	5569.6	5392.3	4841.1
15°	6182.4	6197.8	6255.7	6350.1	6498.5	6592.9	6525.5	6265.3	5980.1	5770.0	5022.3
17.5°	6271.1	6288.4	6352.0	6486.9	6681.6	6885.8	6959.1	6735.5	6425.3	6174.7	5224.6
20°	6321.2	6344.3	6434.9	6612.2	6839.6	7136.4	7379.2	7261.7	6922.5	6644.9	5457.8
22.5°	6402.1	6421.4	6498.5	6687.3	6959.1	7331.0	7799.3	7774.3	7475.6	7117.1	5714.1
25°	6621.8	6652.7	6691.2	6804.9	7067.0	7529.5	8148.2	8321.6	8011.3	7610.5	5949.2
27.5°	7036.2	7061.2	7059.3	7074.7	7223.1	7701.0	8450.7	8863.1	8543.2	8109.6	6176.6
30°	7508.3	7518.0	7525.7	7491.0	7523.7	7876.4	8728.2	9398.9	9079.0	8622.2	6375.1
32.5°	8082.6	8101.9	8036.4	7947.7	7920.7	8136.6	8957.6	9934.7	9713.0	9142.6	6571.7
35°	8761.0	8811.1	8678.1	8522.0	8412.2	8510.5	9265.9	10482.0	10362.5	9807.5	6831.9
37.5°	9535.7	9597.4	9474.1	9167.6	9011.5	9038.5	9668.7	11158.4	11183.5	10564.9	7219.3
40°	10169.8	10250.7	10254.6	9821.0	9583.9	9614.7	10179.4	11886.9	12174.1	11501.5	7676.0
42.5°	10588.0	10667.0	10749.9	10495.5	10246.9	10422.2	10774.9	12677.1	13288.0	12638.5	8313.9
45°	11046.7	11118.0	11164.2	11048.6	10909.8	11364.6	11493.8	13517.3	14475.1	13908.5	9011.5
47.5°	11578.6	11657.6	11701.9	11592.0	11540.0	12191.4	12268.5	14301.7	15743.2	15141.9	9782.4
50°	12287.8	12347.5	12324.4	12255.0	12243.4	12825.4	13012.4	15035.9	16789.7	16469.8	10582.2
52.5°	13170.4	13241.7	13266.8	13168.5	13124.2	13278.3	13611.7	15704.7	17741.7	17610.7	11435.9
55°	13704.2	13817.9	14199.5	14353.7	14459.7	13864.2	14257.3	16442.8	18595.5	18813.2	12353.3
57.5°	13020.1	13166.6	14020.3	14791.2	15787.5	15328.9	15172.8	17213.7	19449.2	19979.2	13451.8
60°	11351.1	11383.9	12484.3	13904.7	15909.0	17211.7	17082.6	18439.4	20374.2	21154.8	14899.1
62.5°	7874.5	7943.9	9244.7	11511.1	14409.6	17890.1	20331.9	20555.4	21700.2	22914.3	17020.9
65°	4060.6	3970.0	5155.2	7234.7	10863.6	16279.0	22964.4	24446.4	24575.5	25666.3	20008.1
67.5°	2499.6	2540.0	3095.1	4224.4	6423.3	11831.0	22688.8	29200.8	28520.5	29044.7	22781.3
70°	1877.1	1927.2	2308.8	2890.8	3916.0	6764.4	18246.6	30353.2	31303.3	31168.4	23625.4
71°	1632.3	1684.4	2081.4	2630.6	3289.7	5220.8	15373.2	29146.8	31399.7	31376.6	23307.4
72.5°	1391.4	1424.2	1734.5	2227.8	2773.2	3659.7	11549.6	26140.4	30060.3	30829.3	22172.3
75°	1092.7	1117.8	1256.5	1699.8	2183.5	2247.1	6197.8	19597.6	24689.2	26153.9	18458.6
77.5°	890.4	907.7	979.0	1262.3	1684.4	1591.9	3251.2	12756.1	15467.6	16941.9	10873.2
80°	707.3	726.6	768.9	855.7	1262.3	1135.1	1551.4	6463.8	7471.7	7456.3	4340.0
82.5°	549.2	555.0	605.1	628.3	863.4	805.6	840.3	2736.6	3031.5	3131.7	1566.8
85°	346.9	364.2	535.8	481.8	516.5	472.2	414.3	1086.9	1339.4	1320.1	626.3
87.5°	106.0	111.8	181.2	204.3	229.3	206.2	152.2	319.9	391.2	424.0	156.1
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°	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4
2.5°	4328.5	4307.3	4232.1	4170.4	4112.6	4049.0	3995.1	3979.6	3966.2	3960.4	3958.4
5°	4368.9	4305.3	4156.9	4035.5	3939.2	3850.5	3794.6	3769.6	3744.5	3744.5	3752.2
7.5°	4426.8	4311.1	4081.8	3900.6	3779.2	3696.3	3655.9	3652.0	3657.8	3663.6	3665.5
10°	4490.4	4307.3	3971.9	3746.5	3638.5	3600.0	3601.9	3634.7	3665.5	3688.6	3692.5
12.5°	4552.0	4284.1	3842.8	3601.9	3532.5	3540.2	3594.2	3667.4	3727.2	3759.9	3761.9
15°	4621.4	4247.5	3686.7	3465.1	3442.0	3501.7	3601.9	3713.7	3804.3	3858.2	3864.0
17.5°	4679.2	4185.9	3522.9	3332.1	3361.0	3470.9	3609.6	3754.2	3864.0	3931.5	3943.0
20°	4744.7	4106.8	3353.3	3204.9	3287.8	3436.2	3594.2	3750.3	3864.0	3929.5	3945.0
22.5°	4796.8	3995.1	3191.4	3100.8	3222.3	3393.8	3542.2	3667.4	3759.9	3794.6	3817.8
25°	4818.0	3854.4	3039.2	3016.1	3170.2	3324.4	3424.6	3495.9	3524.8	3521.0	3530.6
27.5°	4806.4	3692.5	2908.1	2948.6	3104.7	3216.5	3266.6	3260.8	3208.8	3160.6	3183.7
30°	4758.2	3499.8	2798.3	2879.2	3019.9	3081.6	3073.9	2998.7	2900.4	2809.8	2815.6
32.5°	4671.5	3291.6	2696.1	2800.2	2900.4	2927.4	2875.4	2777.1	2636.4	2518.8	2501.5
35°	4598.3	3093.1	2605.6	2709.6	2780.9	2767.4	2717.3	2590.1	2462.9	2358.9	2341.5
37.5°	4586.7	2923.5	2518.8	2607.5	2648.0	2628.7	2567.0	2459.1	2412.8	2333.8	2324.2
40°	4648.4	2804.1	2430.2	2499.6	2518.8	2503.4	2436.0	2374.3	2416.7	2397.4	2397.4
42.5°	4816.0	2740.5	2351.2	2391.6	2407.1	2418.6	2370.4	2318.4	2370.4	2281.8	2252.9
45°	5082.0	2742.4	2279.9	2285.6	2331.9	2372.4	2339.6	2262.5	2235.5	2058.2	2023.5
47.5°	5473.2	2807.9	2222.0	2185.4	2268.3	2335.8	2289.5	2177.7	2058.2	1940.7	1919.5
50°	5930.0	2925.5	2170.0	2081.4	2183.5	2289.5	2254.8	2123.8	2000.4	1929.1	1915.6
52.5°	6436.8	3073.9	2106.4	1965.7	2079.4	2268.3	2262.5	2116.1	1946.5	1898.3	1886.7
55°	7063.1	3220.3	2027.4	1830.8	1986.9	2251.0	2241.3	2052.5	1934.9	1900.2	1896.4
57.5°	7791.6	3432.3	1913.7	1694.0	1880.9	2179.7	2158.5	2013.9	1896.4	1871.3	1869.4
60°	8965.3	3761.9	1751.8	1568.7	1773.0	2054.4	2081.4	1948.4	1834.7	1828.9	1827.0
62.5°	10509.0	4224.4	1584.1	1439.6	1647.7	1892.5	1969.6	1859.7	1769.2	1798.1	1801.9
65°	12640.4	4613.7	1410.7	1329.8	1509.0	1736.4	1863.6	1776.9	1695.9	1751.8	1751.8
67.5°	14029.9	4621.4	1252.7	1216.1	1368.3	1605.3	1751.8	1678.6	1601.5	1695.9	1699.8
70°	13740.9	4049.0	1121.6	1096.6	1231.5	1464.7	1628.5	1570.7	1482.0	1566.8	1536.0
71°	13274.5	3731.0	1069.6	1050.3	1177.5	1397.2	1570.7	1522.5	1433.8	1489.7	1472.4
72.5°	12530.6	3239.6	984.8	988.6	1096.6	1312.4	1489.7	1439.6	1351.0	1381.8	1376.0
75°	10591.8	2829.1	842.2	859.5	942.4	1167.9	1327.8	1289.3	1198.7	1198.7	1192.9
77.5°	6621.8	1977.3	699.6	709.2	799.8	1000.2	1140.9	1108.1	1021.4	992.5	984.8
80°	2470.7	1021.4	547.3	558.9	614.8	788.2	944.3	913.5	824.8	792.1	761.2
82.5°	934.7	512.6	402.8	393.1	452.9	601.3	740.0	703.4	634.0	555.0	531.9
85°	352.7	254.4	246.7	239.0	266.0	356.5	458.7	451.0	377.7	321.8	316.1
87.5°	92.5	82.9	96.4	71.3	75.2	67.5	69.4	28.9	13.5	5.8	3.9
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)