

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: P454935

Luminaire Tested: **GALN-SA6A-750-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454935
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-SA6A-750-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27273 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

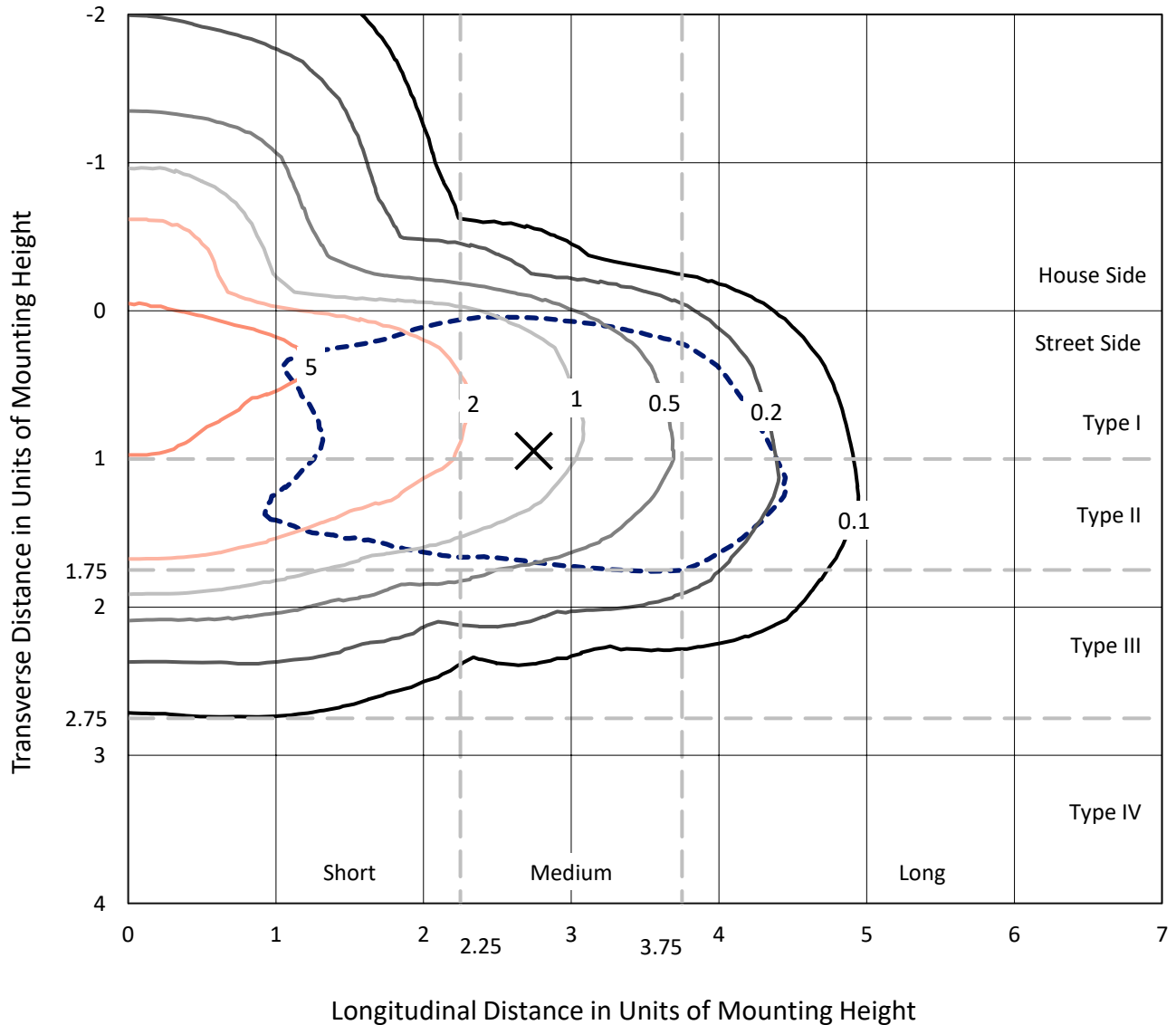
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454935
 CATALOG NUMBER: GALN-SA6A-750-U-T2

Iso-Footcandle Lines of Horizontal Illumination

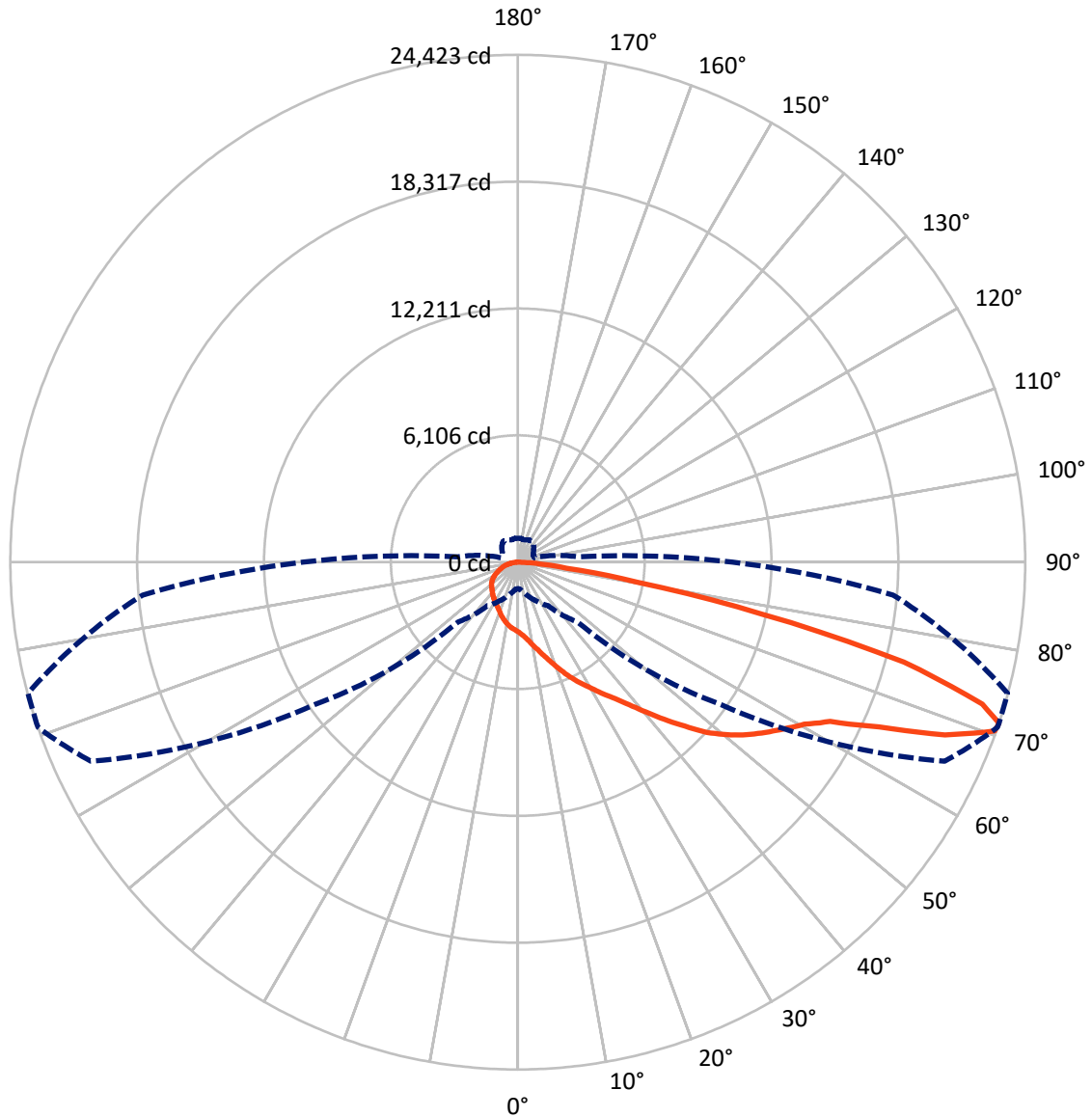
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P454935
CATALOG NUMBER: GALN-SA6A-750-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P454935

CATALOG NUMBER: GALN-SA6A-750-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4905.0	0.0	4905.0
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	22368.0	0.0	22368.0
	% Fixture	82.0	0.0	82.0
Total	Lumens	27273.0	0.0	27273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.1	1.2
10°-20°	1091.9	4.0
20°-30°	1908.2	7.0
30°-40°	2838.2	10.4
40°-50°	4181.7	15.3
50°-60°	5854.5	21.5
60°-70°	6548.0	24.0
70°-80°	3999.8	14.7
80°-90°	514.5	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°	27273.0	100.0
0°-180°	27273.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454935

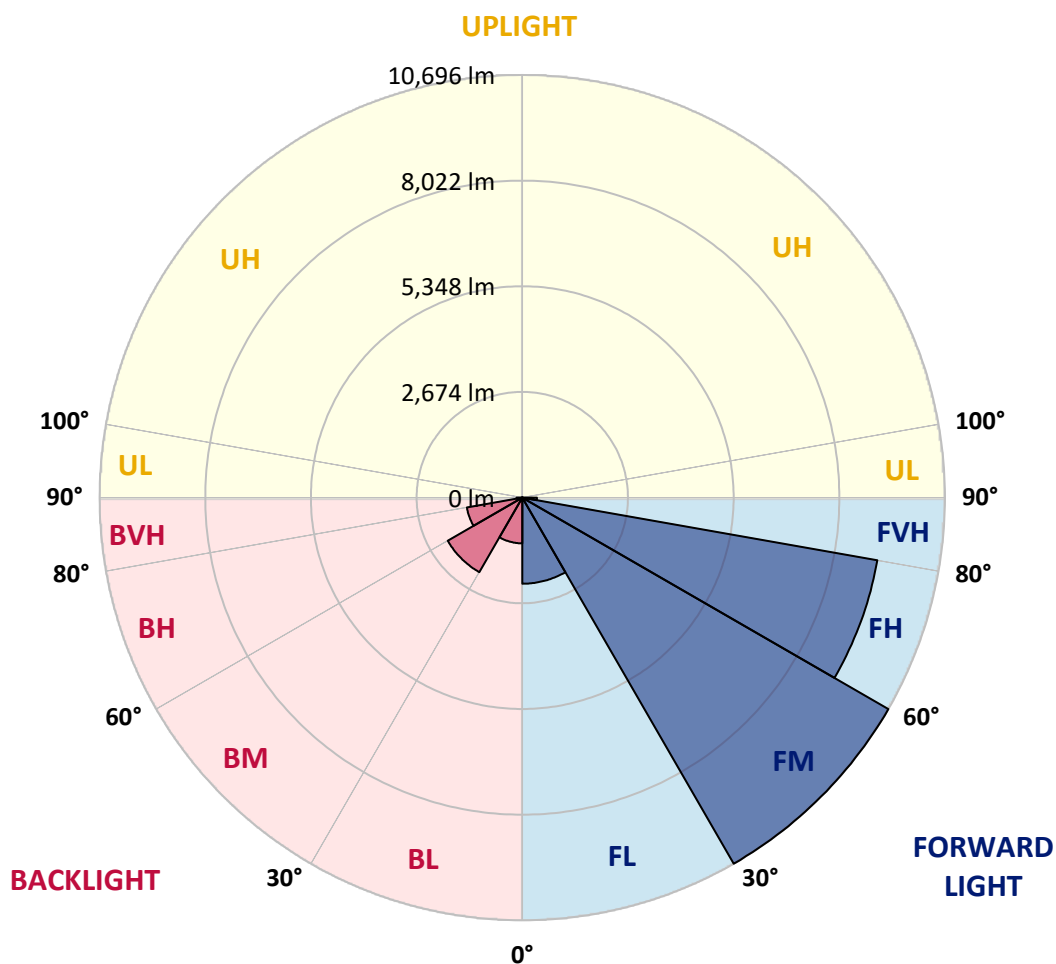
CATALOG NUMBER: GALN-SA6A-750-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2179.1	8.0			
FM (30°-60°)	10695.9	39.2			
FH (60°-80°)	9122.7	33.4			G4/12000
FVH (80°-90°)	370.2	1.4			G3/500
BL (0°-30°)	1157.1	4.2	B3/2500		
BM (30°-60°)	2178.5	8.0	B2/2500		
BH (60°-80°)	1425.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	144.3	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





REPORT NUMBER: P454935

CATALOG NUMBER: GALN-SA6A-750-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2
2.5°	3716.0	3698.0	3699.5	3674.0	3641.0	3605.0	3554.1	3509.1	3473.1	3452.2	3390.7
5°	4117.7	4099.7	4077.2	4021.8	3997.8	3909.3	3796.9	3695.0	3617.0	3573.6	3450.7
7.5°	4443.0	4438.5	4432.5	4401.0	4339.5	4216.6	4120.7	3943.8	3828.4	3746.0	3536.1
10°	4643.8	4651.3	4655.8	4661.8	4636.3	4571.9	4440.0	4216.6	4069.7	3964.8	3647.0
12.5°	4745.8	4753.3	4778.7	4834.2	4868.7	4861.2	4753.3	4534.4	4332.1	4194.1	3765.4
15°	4808.7	4820.7	4865.7	4939.1	5054.6	5128.0	5075.5	4873.2	4651.3	4487.9	3906.3
17.5°	4877.7	4891.2	4940.6	5045.6	5197.0	5355.9	5412.8	5238.9	4997.6	4802.7	4063.7
20°	4916.7	4934.6	5005.1	5143.0	5319.9	5550.7	5739.6	5648.2	5384.3	5168.5	4245.1
22.5°	4979.6	4994.6	5054.6	5201.5	5412.8	5702.1	6066.4	6046.9	5814.5	5535.7	4444.5
25°	5150.5	5174.5	5204.5	5292.9	5496.8	5856.5	6337.7	6472.6	6231.3	5919.5	4627.4
27.5°	5472.8	5492.3	5490.8	5502.8	5618.2	5989.9	6573.0	6893.8	6645.0	6307.7	4804.2
30°	5840.0	5847.5	5853.5	5826.5	5852.0	6126.3	6788.9	7310.5	7061.7	6706.4	4958.6
32.5°	6286.7	6301.7	6250.7	6181.8	6160.8	6328.7	6967.3	7727.2	7554.9	7111.2	5111.5
35°	6814.4	6853.3	6749.9	6628.5	6543.0	6619.5	7207.1	8153.0	8060.0	7628.3	5313.9
37.5°	7417.0	7464.9	7369.0	7130.6	7009.2	7030.2	7520.4	8679.1	8698.6	8217.4	5615.2
40°	7910.1	7973.1	7976.1	7638.8	7454.4	7478.4	7917.6	9245.7	9469.1	8945.9	5970.4
42.5°	8235.4	8296.9	8361.3	8163.4	7970.1	8106.5	8380.8	9860.3	10335.5	9830.3	6466.6
45°	8592.2	8647.6	8683.6	8593.7	8485.7	8839.5	8939.9	10513.8	11258.8	10818.1	7009.2
47.5°	9005.9	9067.3	9101.8	9016.4	8975.9	9482.5	9542.5	11123.9	12245.2	11777.5	7608.8
50°	9557.5	9604.0	9586.0	9532.0	9523.0	9975.7	10121.1	11695.0	13059.1	12810.3	8230.9
52.5°	10244.0	10299.5	10319.0	10242.5	10208.1	10328.0	10587.3	12215.2	13799.6	13697.7	8894.9
55°	10659.2	10747.7	11044.5	11164.4	11246.8	10783.7	11089.5	12789.3	14463.7	14633.0	9608.5
57.5°	10127.1	10241.0	10905.1	11504.7	12279.6	11922.9	11801.5	13388.9	15127.7	15539.9	10462.9
60°	8829.0	8854.5	9710.4	10815.1	12374.1	13387.4	13287.0	14342.2	15847.2	16454.3	11588.6
62.5°	6124.8	6178.8	7190.6	8953.4	11207.9	13915.0	15814.2	15988.1	16878.5	17822.9	13239.0
65°	3158.4	3087.9	4009.8	5627.2	8449.8	12661.9	17861.8	19014.6	19115.0	19963.4	15562.4
67.5°	1944.2	1975.7	2407.4	3285.8	4996.1	9202.2	17647.5	22712.5	22183.4	22591.1	17719.4
70°	1460.0	1499.0	1795.8	2248.5	3045.9	5261.4	14192.3	23608.9	24347.9	24243.0	18376.0
71°	1269.6	1310.1	1618.9	2046.1	2558.8	4060.7	11957.4	22670.6	24422.9	24404.9	18128.7
72.5°	1082.3	1107.7	1349.1	1732.8	2157.0	2846.6	8983.4	20332.2	23381.1	23979.2	17245.8
75°	849.9	869.4	977.3	1322.1	1698.3	1747.8	4820.7	15243.1	19203.4	20342.7	14357.2
77.5°	692.5	706.0	761.5	981.8	1310.1	1238.2	2528.8	9921.7	12030.8	13177.5	8457.2
80°	550.1	565.1	598.1	665.5	981.8	882.9	1206.7	5027.6	5811.5	5799.6	3375.7
82.5°	427.2	431.7	470.7	488.7	671.5	626.6	653.6	2128.6	2357.9	2435.8	1218.7
85°	269.8	283.3	416.7	374.7	401.7	367.3	322.3	845.4	1041.8	1026.8	487.2
87.5°	82.4	86.9	140.9	158.9	178.4	160.4	118.4	248.8	304.3	329.8	121.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P454935
 CATALOG NUMBER: GALN-SA6A-750-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2
2.5°	3366.7	3350.2	3291.8	3243.8	3198.8	3149.4	3107.4	3095.4	3084.9	3080.4	3078.9
5°	3398.2	3348.7	3233.3	3138.9	3063.9	2995.0	2951.5	2932.0	2912.5	2912.5	2918.5
7.5°	3443.2	3353.2	3174.8	3033.9	2939.5	2875.0	2843.6	2840.6	2845.1	2849.6	2851.1
10°	3492.6	3350.2	3089.4	2914.0	2830.1	2800.1	2801.6	2827.1	2851.1	2869.0	2872.0
12.5°	3540.6	3332.2	2989.0	2801.6	2747.6	2753.6	2795.6	2852.6	2899.0	2924.5	2926.0
15°	3594.6	3303.8	2867.5	2695.2	2677.2	2723.6	2801.6	2888.5	2959.0	3001.0	3005.5
17.5°	3639.5	3255.8	2740.1	2591.7	2614.2	2699.7	2807.6	2920.0	3005.5	3057.9	3066.9
20°	3690.5	3194.3	2608.2	2492.8	2557.3	2672.7	2795.6	2917.0	3005.5	3056.4	3068.4
22.5°	3731.0	3107.4	2482.3	2411.9	2506.3	2639.7	2755.1	2852.6	2924.5	2951.5	2969.5
25°	3747.5	2998.0	2363.9	2345.9	2465.8	2585.7	2663.7	2719.2	2741.6	2738.6	2746.1
27.5°	3738.5	2872.0	2262.0	2293.4	2414.9	2501.8	2540.8	2536.3	2495.8	2458.3	2476.3
30°	3701.0	2722.1	2176.5	2239.5	2348.9	2396.9	2390.9	2332.4	2256.0	2185.5	2190.0
32.5°	3633.5	2560.3	2097.1	2178.0	2256.0	2277.0	2236.5	2160.0	2050.6	1959.2	1945.7
35°	3576.6	2405.9	2026.6	2107.6	2163.0	2152.5	2113.6	2014.6	1915.7	1834.8	1821.3
37.5°	3567.6	2274.0	1959.2	2028.1	2059.6	2044.6	1996.6	1912.7	1876.7	1815.3	1807.8
40°	3615.5	2181.0	1890.2	1944.2	1959.2	1947.2	1894.7	1846.7	1879.7	1864.7	1864.7
42.5°	3746.0	2131.5	1828.8	1860.2	1872.2	1881.2	1843.7	1803.3	1843.7	1774.8	1752.3
45°	3952.8	2133.0	1773.3	1777.8	1813.8	1845.2	1819.8	1759.8	1738.8	1600.9	1573.9
47.5°	4257.1	2184.0	1728.3	1699.8	1764.3	1816.8	1780.8	1693.8	1600.9	1509.5	1493.0
50°	4612.4	2275.5	1687.9	1618.9	1698.3	1780.8	1753.8	1651.9	1555.9	1500.5	1490.0
52.5°	5006.6	2390.9	1638.4	1529.0	1617.4	1764.3	1759.8	1645.9	1514.0	1476.5	1467.5
55°	5493.8	2504.8	1576.9	1424.0	1545.4	1750.8	1743.3	1596.4	1505.0	1478.0	1475.0
57.5°	6060.4	2669.7	1488.5	1317.6	1463.0	1695.3	1678.9	1566.4	1475.0	1455.5	1454.0
60°	6973.3	2926.0	1362.6	1220.2	1379.1	1597.9	1618.9	1515.5	1427.0	1422.5	1421.0
62.5°	8173.9	3285.8	1232.2	1119.7	1281.6	1472.0	1532.0	1446.5	1376.1	1398.5	1401.5
65°	9831.8	3588.6	1097.3	1034.3	1173.7	1350.6	1449.5	1382.1	1319.1	1362.6	1362.6
67.5°	10912.6	3594.6	974.3	945.9	1064.3	1248.7	1362.6	1305.6	1245.7	1319.1	1322.1
70°	10687.7	3149.4	872.4	852.9	957.8	1139.2	1266.6	1221.7	1152.7	1218.7	1194.7
71°	10325.0	2902.0	831.9	816.9	915.9	1086.8	1221.7	1184.2	1115.2	1158.7	1145.2
72.5°	9746.4	2519.8	766.0	769.0	852.9	1020.8	1158.7	1119.7	1050.8	1074.8	1070.3
75°	8238.4	2200.5	655.1	668.5	733.0	908.4	1032.8	1002.8	932.4	932.4	927.9
77.5°	5150.5	1538.0	544.1	551.6	622.1	778.0	887.4	861.9	794.5	772.0	766.0
80°	1921.7	794.5	425.7	434.7	478.2	613.1	734.5	710.5	641.6	616.1	592.1
82.5°	727.0	398.7	313.3	305.8	352.3	467.7	575.6	547.1	493.2	431.7	413.7
85°	274.3	197.9	191.9	185.9	206.9	277.3	356.8	350.8	293.8	250.3	245.8
87.5°	72.0	64.5	74.9	55.5	58.5	52.5	54.0	22.5	10.5	4.5	3.0
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)