

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: P457009

Luminaire Tested: **GALN-SA8B-750-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-750-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46398 lumens
Efficiency: N/A
Efficacy: 142.8 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

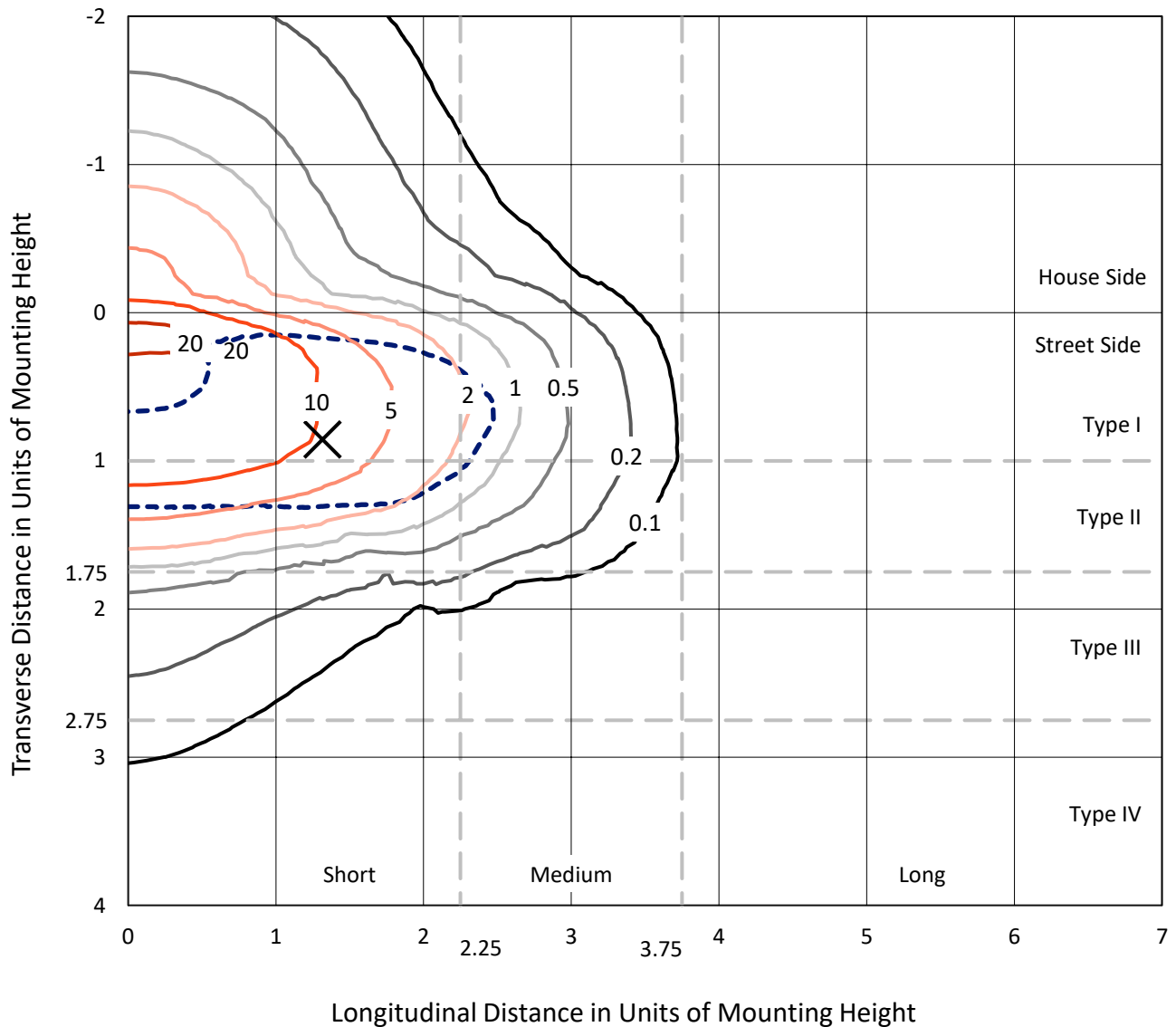
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

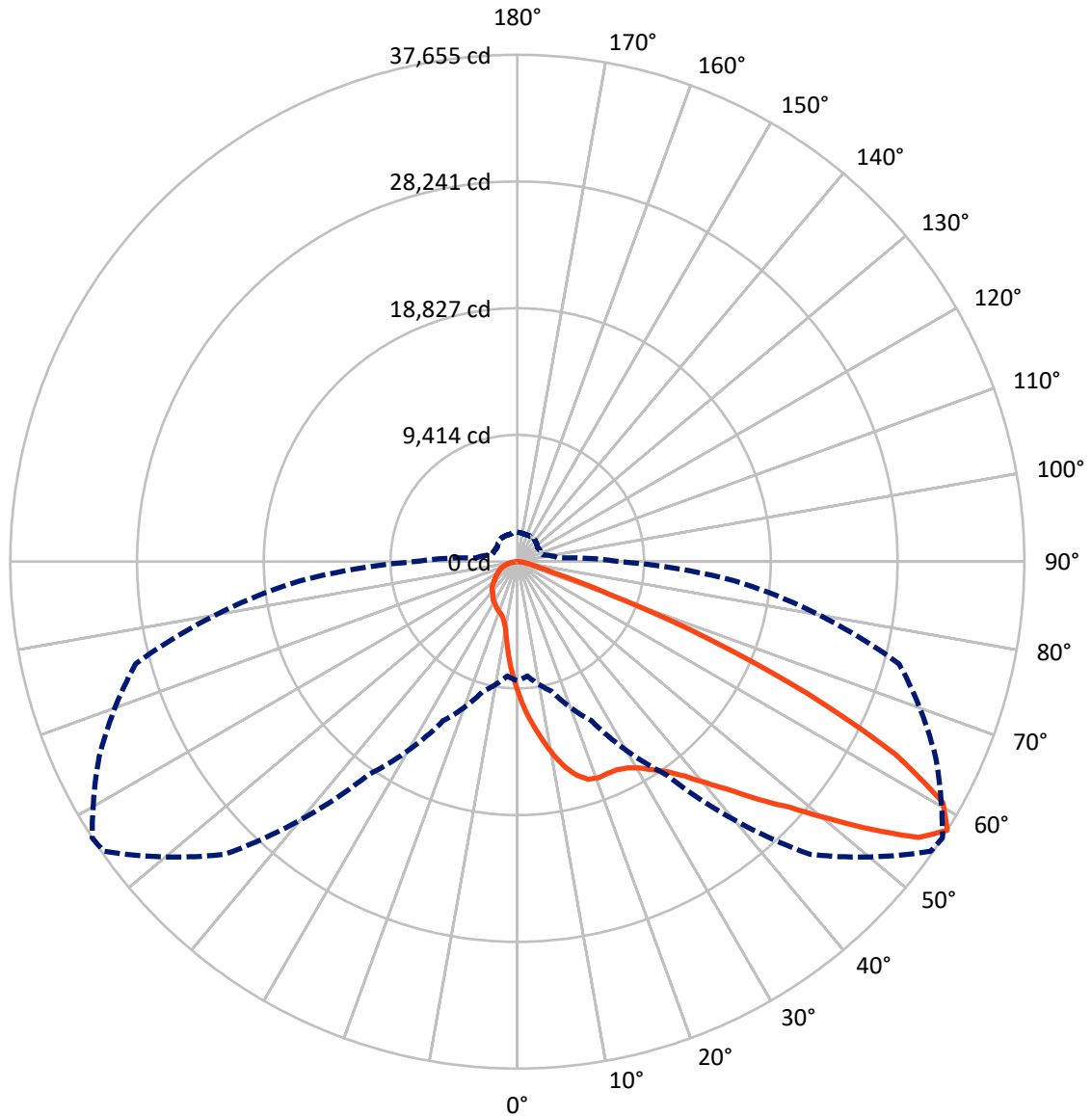
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7055.8	0.0	7055.8
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	39342.2	0.0	39342.2
	% Fixture	84.8	0.0	84.8
Total	Lumens	46398.0	0.0	46398.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	936.8	2.0
10°-20°	2760.9	6.0
20°-30°	4584.6	9.9
30°-40°	6905.7	14.9
40°-50°	10368.3	22.3
50°-60°	11621.6	25.0
60°-70°	6801.5	14.7
70°-80°	2011.8	4.3
80°-90°	406.6	0.9
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°	46398.0	100.0
0°-180°	46398.0	100.0

Coefficient of Utilization



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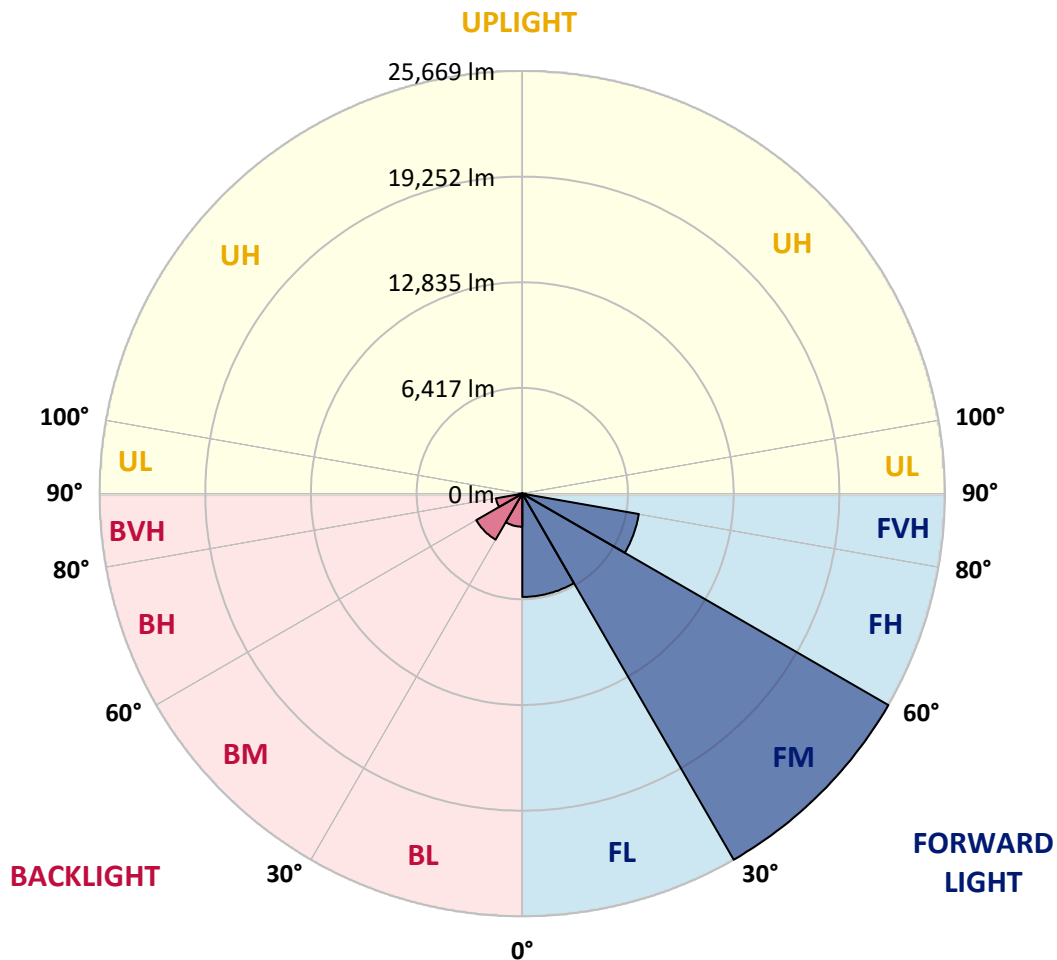
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6271.9	13.5			
FM	(30°-60°)	25669.4	55.3			
FH	(60°-80°)	7189.8	15.5			G3/7500
FVH	(80°-90°)	211.0	0.5			G2/225
BL	(0°-30°)	2010.4	4.3	B3/2500		
BM	(30°-60°)	3226.2	7.0	B3/5000		
BH	(60°-80°)	1623.5	3.5	B3/2500		G3/2500
BVH	(80°-90°)	195.7	0.4			G2/225
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°	57°	65°	75°	85°
0°	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7
2.5°	12112.2	11980.2	11876.0	11784.6	11665.2	11342.7	11020.1	11015.0	10758.5	10362.3	9956.0
5°	14085.6	13907.9	13930.7	13646.3	13361.8	12894.5	12211.3	12175.7	11629.7	10888.1	10133.7
7.5°	15370.8	15373.3	15302.2	15139.6	14832.3	14301.5	13526.9	13351.6	12592.2	11467.1	10336.9
10°	15304.7	15373.3	15492.7	15632.4	15726.3	15464.7	14758.7	14545.3	13557.4	12168.1	10563.0
12.5°	14426.0	14532.6	14702.8	15053.3	15619.7	16051.4	15810.2	15637.4	14674.9	12866.5	10811.9
15°	13877.4	13940.9	14034.8	14271.0	14880.6	15914.3	16539.1	16447.6	15728.9	13656.4	11091.2
17.5°	13709.8	13773.2	13803.7	13948.5	14382.8	15441.9	16826.1	16988.6	16663.5	14382.8	11373.2
20°	13877.4	13907.9	13907.9	13994.2	14334.5	15165.0	16813.4	17141.0	17430.5	15253.9	11637.3
22.5°	14316.8	14329.5	14311.7	14342.2	14596.1	15241.2	16694.0	17100.4	18050.2	15993.0	11843.0
25°	15030.4	15050.8	14933.9	14862.8	15048.2	15576.5	16760.0	17133.4	18535.3	16699.1	11980.2
27.5°	15840.6	15866.0	15723.8	15558.7	15645.1	15990.5	17019.1	17354.3	18898.5	17395.0	12066.5
30°	16833.7	16843.8	16605.1	16407.0	16351.1	16607.6	17461.0	17773.4	19350.6	18215.3	12196.0
32.5°	17849.6	17925.8	17618.5	17339.1	17245.1	17323.9	18113.7	18416.0	19889.0	19096.6	12404.3
35°	19231.2	19243.9	18875.7	18535.3	18225.5	18327.1	18949.3	19167.7	20633.2	20115.1	12698.9
37.5°	20955.8	21072.6	20564.6	19929.7	19548.7	19401.4	19960.2	20198.9	21677.1	21364.7	13143.4
40°	22870.7	22913.9	22479.6	22083.4	21387.5	20960.8	21346.9	21605.9	22964.7	22855.5	13659.0
42.5°	24074.6	24168.6	24201.6	24161.0	23637.8	22921.5	23068.9	23190.8	24488.6	24254.9	14187.2
45°	24481.0	24620.7	25093.1	26093.7	26149.6	25443.6	25100.7	25217.5	26149.6	25667.1	14692.6
47.5°	23807.9	24046.7	24917.8	26970.0	28506.5	28559.9	27526.2	27269.7	27663.3	26837.9	15058.4
50°	22068.2	22119.0	23452.4	26423.9	29611.3	31539.0	30469.8	29992.3	29100.8	27704.0	15309.8
52.5°	19376.0	19434.4	20551.9	23886.7	28930.7	33621.7	33913.7	33060.4	30561.2	28377.0	15474.9
55°	14382.8	14720.6	15949.8	19172.8	25705.1	33426.1	36651.6	36166.5	32326.4	28910.4	15734.0
57.5°	8843.5	8533.7	9991.5	13044.3	19332.8	30739.0	37497.4	37654.8	34269.3	29357.4	16168.3
60°	4068.7	4129.7	4731.6	6727.9	11784.6	24046.7	35318.2	36313.8	35343.6	29342.1	16277.5
62.5°	2803.9	2748.0	2595.7	2953.8	5374.2	15208.2	29832.3	31518.7	33189.9	28430.3	15843.2
65°	2506.8	2450.9	2156.3	2057.2	2468.7	6628.8	21687.2	23815.5	27945.2	26129.3	14761.2
67.5°	2341.7	2265.5	1960.7	1767.7	1762.6	2638.8	12787.8	15350.5	20727.2	22091.0	12790.3
70°	2169.0	2108.0	1805.8	1592.4	1501.0	1658.5	5620.5	7357.8	13458.3	15919.4	9963.6
72.5°	1996.3	1925.2	1653.4	1424.8	1305.4	1242.0	2153.7	2801.4	7604.1	9544.5	6108.2
75°	1744.8	1709.3	1478.2	1290.2	1160.7	1003.2	1366.4	1559.4	3637.0	4383.7	3065.5
77.5°	1526.4	1488.3	1313.1	1127.7	1033.7	815.3	970.2	1059.1	1534.0	1777.8	1384.2
80°	1117.5	1155.6	1107.3	995.6	921.9	640.0	652.7	726.4	911.8	1008.3	845.7
82.5°	708.6	779.7	853.4	767.0	698.4	505.4	452.1	480.0	622.2	660.3	375.9
85°	297.2	302.2	495.3	467.3	398.7	299.7	271.8	287.0	332.7	348.0	175.2
87.5°	114.3	111.8	175.2	162.5	124.4	86.4	86.4	96.5	132.1	121.9	55.9
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°	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7	9747.7
2.5°	9780.7	9600.4	9242.3	8797.8	8472.7	8107.0	7784.4	7553.3	7467.0	7426.3	7350.1
5°	9773.1	9417.5	8675.9	7898.7	7273.9	6633.9	6092.9	5742.5	5712.0	5478.3	5455.5
7.5°	9775.6	9232.1	8051.1	6908.2	5955.8	5300.5	4853.5	4736.7	4597.0	4561.5	4579.2
10°	9783.2	8995.9	7380.6	5927.9	5005.9	4576.7	4409.1	4363.3	4368.4	4383.7	4386.2
12.5°	9793.4	8767.3	6684.7	5183.7	4472.6	4294.8	4277.0	4317.6	4360.8	4393.8	4401.4
15°	9806.1	8505.7	6006.6	4584.3	4205.9	4190.6	4249.1	4317.6	4378.6	4426.8	4434.5
17.5°	9790.9	8201.0	5437.7	4216.0	4058.6	4132.2	4228.7	4315.1	4371.0	4416.7	4421.8
20°	9755.3	7860.6	4889.1	3957.0	3967.1	4086.5	4190.6	4271.9	4332.9	4355.7	4373.5
22.5°	9618.2	7454.3	4411.6	3756.3	3857.9	4023.0	4147.5	4195.7	4127.1	4078.9	4091.6
25°	9384.5	6926.0	3967.1	3593.8	3758.9	3934.1	4061.1	3944.3	3888.4	3868.1	3878.2
27.5°	9092.4	6346.9	3631.9	3423.6	3631.9	3835.1	3799.5	3779.2	3753.8	3720.8	3728.4
30°	8777.5	5780.5	3347.4	3291.6	3494.7	3611.6	3626.8	3659.8	3631.9	3581.1	3601.4
32.5°	8485.4	5247.2	3131.6	3179.8	3398.2	3380.5	3494.7	3532.8	3403.3	3233.1	3240.8
35°	8236.5	4751.9	2969.0	3070.6	3233.1	3240.8	3355.1	3223.0	3083.3	3002.0	3007.1
37.5°	8048.6	4365.9	2862.3	2976.6	3022.3	3118.9	3057.9	2989.3	2971.5	2915.7	2918.2
40°	7936.8	4028.1	2793.8	2903.0	2895.4	2961.4	2765.8	2834.4	2859.8	2842.0	2844.6
42.5°	7825.1	3789.4	2722.6	2801.4	2798.8	2669.3	2626.1	2684.6	2750.6	2758.2	2753.1
45°	7736.2	3604.0	2649.0	2646.5	2697.2	2494.1	2481.4	2516.9	2610.9	2656.6	2654.1
47.5°	7637.1	3449.0	2537.2	2466.1	2481.4	2384.9	2364.5	2379.8	2494.1	2567.7	2588.0
50°	7512.7	3294.1	2397.6	2301.0	2237.5	2283.3	2288.3	2290.9	2405.2	2489.0	2506.8
52.5°	7413.6	3177.3	2237.5	2166.4	2090.2	2191.8	2229.9	2235.0	2303.6	2372.2	2384.9
55°	7472.0	3111.2	2080.1	2029.3	1960.7	2097.9	2171.5	2181.7	2196.9	2247.7	2255.3
57.5°	7647.3	3126.5	1953.1	1887.1	1836.3	1986.1	2110.6	2118.2	2108.0	2169.0	2179.1
60°	7700.6	3118.9	1859.1	1729.6	1699.1	1866.7	2021.7	2036.9	2034.4	2123.3	2141.0
62.5°	7477.1	3022.3	1765.1	1597.5	1577.2	1744.8	1897.2	1958.2	1970.9	2097.9	2120.7
65°	6951.4	2824.2	1640.7	1457.8	1457.8	1615.3	1777.8	1861.7	1897.2	2067.4	2092.8
67.5°	6258.0	2590.6	1513.7	1338.5	1333.4	1490.9	1650.9	1737.2	1793.1	2024.2	2039.4
70°	5193.9	2275.6	1356.2	1208.9	1208.9	1351.2	1495.9	1600.1	1681.3	1942.9	1942.9
72.5°	3558.2	1892.1	1165.8	1061.6	1064.2	1196.2	1343.5	1460.4	1556.9	1780.4	1785.5
75°	2250.2	1478.2	957.5	904.2	914.3	1038.8	1191.2	1313.1	1506.1	1760.1	1767.7
77.5°	1196.2	1038.8	761.9	749.2	761.9	876.2	1046.4	1214.0	1511.2	1526.4	1501.0
80°	774.6	736.5	601.9	576.5	581.6	706.1	932.1	1153.1	1214.0	1229.3	1173.4
82.5°	421.6	467.3	426.7	401.3	401.3	551.1	795.0	916.9	871.1	723.8	690.8
85°	180.3	218.4	221.0	193.0	185.4	340.3	533.4	500.3	464.8	444.5	439.4
87.5°	50.8	71.1	71.1	53.3	40.6	94.0	106.7	30.5	0.0	2.5	5.1
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)