

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: P455559

Luminaire Tested: **GALN-SA6D-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455559
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-SA6D-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42187 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

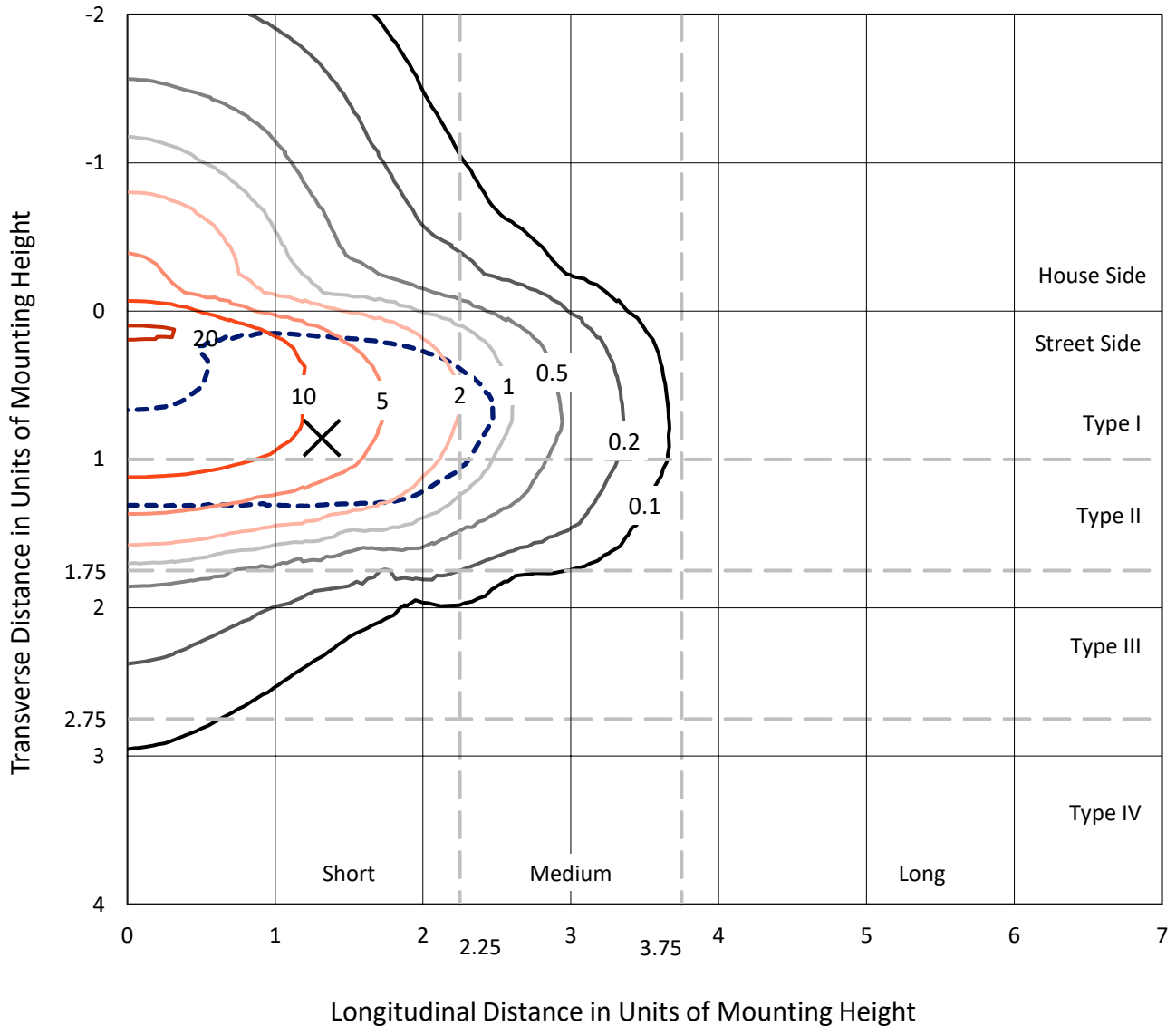
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455559
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Iso-Footcandle Lines of Horizontal Illumination

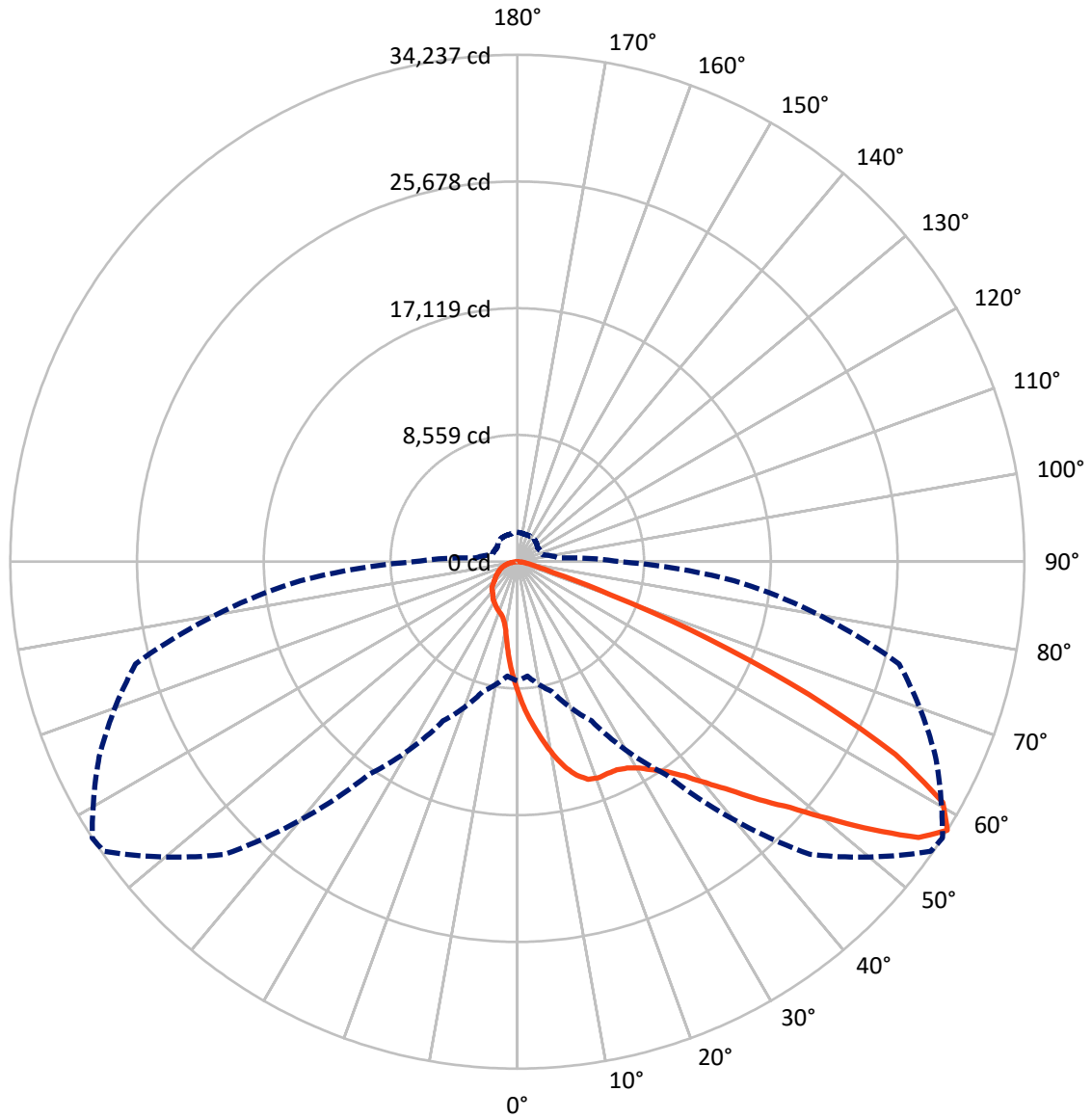
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 fc
 Type II - Short - N/A

REPORT NUMBER: P455559
CATALOG NUMBER: GALN-SA6D-730-U-AFL

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	6415.5	0.0	6415.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	35771.5	0.0	35771.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	42187.0	0.0	42187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	851.8	2.0
10°-20°	2510.4	6.0
20°-30°	4168.5	9.9
30°-40°	6279.0	14.9
40°-50°	9427.3	22.3
50°-60°	10566.8	25.0
60°-70°	6184.2	14.7
70°-80°	1829.2	4.3
80°-90°	369.7	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°	42187.0	100.0
0°-180°	42187.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455559

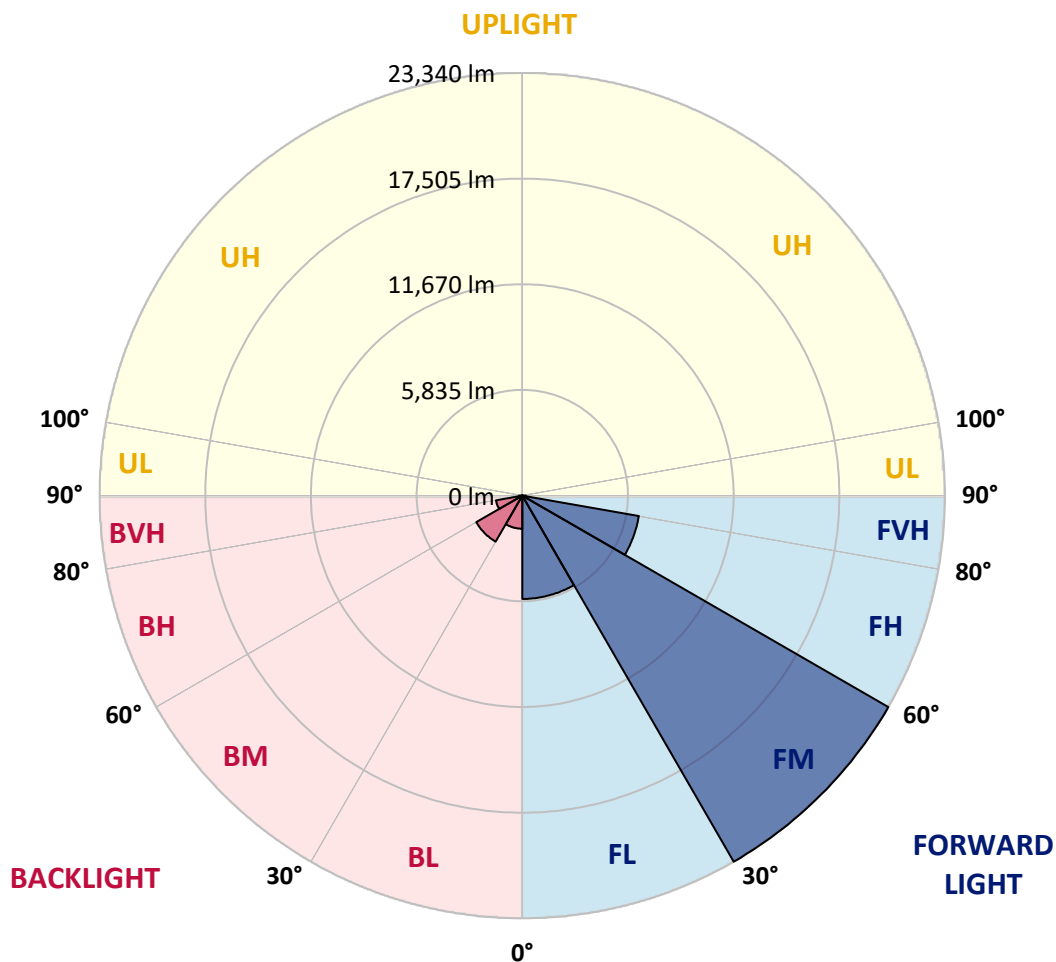
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5702.7	13.5			
FM	(30°-60°)	23339.7	55.3			
FH	(60°-80°)	6537.3	15.5			G3/7500
FVH	(80°-90°)	191.8	0.5			G2/225
BL	(0°-30°)	1828.0	4.3	B3/2500		
BM	(30°-60°)	2933.4	7.0	B3/5000		
BH	(60°-80°)	1476.2	3.5	B3/2500		G3/2500
BVH	(80°-90°)	177.9	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





REPORT NUMBER: P455559

CATALOG NUMBER: GALN-SA6D-730-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8863.0	8863.0	8863.0	8863.0	8863.0	8863.0	8863.0	8863.0	8863.0	8863.0	8863.0
2.5°	11012.9	10892.9	10798.2	10715.0	10606.5	10313.2	10020.0	10015.3	9782.1	9421.9	9052.4
5°	12807.3	12645.6	12666.4	12407.7	12149.1	11724.2	11103.0	11070.7	10574.2	9899.9	9214.0
7.5°	13975.7	13978.1	13913.4	13765.6	13486.2	13003.5	12299.2	12139.9	11449.4	10426.4	9398.8
10°	13915.7	13978.1	14086.6	14213.6	14299.0	14061.2	13419.2	13225.2	12326.9	11063.7	9604.3
12.5°	13116.7	13213.7	13368.4	13687.1	14202.1	14594.6	14375.3	14218.2	13343.0	11698.8	9830.6
15°	12617.9	12675.6	12761.1	12975.8	13530.1	14469.9	15038.0	14954.9	14301.4	12417.0	10084.6
17.5°	12465.5	12523.2	12550.9	12682.6	13077.4	14040.4	15299.0	15446.8	15151.2	13077.4	10340.9
20°	12617.9	12645.6	12645.6	12724.1	13033.6	13788.7	15287.4	15585.3	15848.6	13869.5	10581.1
22.5°	13017.4	13028.9	13012.8	13040.5	13271.4	13858.0	15178.9	15548.4	16412.0	14541.5	10768.2
25°	13666.3	13684.8	13578.5	13513.9	13682.5	14162.8	15238.9	15578.4	16853.1	15183.5	10892.9
27.5°	14403.0	14426.1	14296.7	14146.6	14225.1	14539.2	15474.5	15779.3	17183.3	15816.2	10971.4
30°	15305.9	15315.1	15098.1	14917.9	14867.1	15100.4	15876.3	16160.3	17594.4	16562.1	11089.1
32.5°	16229.6	16298.9	16019.5	15765.4	15680.0	15751.6	16469.8	16744.6	18083.9	17363.5	11278.5
35°	17485.8	17497.4	17162.5	16853.1	16571.4	16663.7	17229.5	17428.1	18760.6	18289.5	11546.4
37.5°	19053.8	19160.1	18698.2	18120.9	17774.5	17640.6	18148.6	18365.7	19709.7	19425.6	11950.5
40°	20795.0	20834.3	20439.4	20079.2	19446.4	19058.5	19409.5	19645.0	20880.5	20781.2	12419.3
42.5°	21889.6	21975.1	22005.1	21968.2	21492.4	20841.2	20975.2	21086.0	22266.1	22053.6	12899.6
45°	22259.1	22386.1	22815.7	23725.5	23776.3	23134.3	22822.6	22928.8	23776.3	23337.6	13359.2
47.5°	21647.2	21864.2	22656.3	24522.2	25919.3	25967.8	25027.9	24794.7	25152.6	24402.1	13691.7
50°	20065.3	20111.5	21323.9	24025.7	26923.9	28676.6	27704.4	27270.3	26459.7	25189.6	13920.3
52.5°	17617.5	17670.6	18686.7	21718.8	26305.0	30570.2	30835.8	30059.9	27787.5	25801.6	14070.4
55°	13077.4	13384.6	14502.3	17432.7	23372.2	30392.4	33325.2	32884.1	29392.5	26286.5	14306.0
57.5°	8040.9	7759.2	9084.7	11860.4	17578.2	27949.2	34094.2	34237.3	31159.1	26692.9	14700.9
60°	3699.5	3754.9	4302.2	6117.3	10715.0	21864.2	32112.8	33018.0	32135.9	26679.1	14800.2
62.5°	2549.4	2498.6	2360.1	2685.7	4886.4	13828.0	27124.8	28658.1	30177.6	25850.0	14405.3
65°	2279.3	2228.5	1960.6	1870.5	2244.6	6027.2	19718.9	21654.1	25409.0	23757.8	13421.5
67.5°	2129.2	2059.9	1782.8	1607.3	1602.6	2399.3	11627.2	13957.3	18846.0	20086.1	11629.5
70°	1972.1	1916.7	1641.9	1447.9	1364.8	1508.0	5110.4	6690.0	12236.9	14474.5	9059.3
72.5°	1815.1	1750.4	1503.3	1295.5	1187.0	1129.2	1958.3	2547.1	6914.0	8678.3	5553.8
75°	1586.5	1554.1	1344.0	1173.1	1055.3	912.2	1242.4	1417.9	3306.9	3985.8	2787.3
77.5°	1387.9	1353.2	1193.9	1025.3	939.9	741.3	882.1	963.0	1394.8	1616.5	1258.6
80°	1016.1	1050.7	1006.8	905.2	838.3	581.9	593.5	660.5	829.0	916.8	769.0
82.5°	644.3	708.9	775.9	697.4	635.1	459.5	411.1	436.5	565.8	600.4	341.8
85°	270.2	274.8	450.3	424.9	362.6	272.5	247.1	260.9	302.5	316.4	159.3
87.5°	103.9	101.6	159.3	147.8	113.2	78.5	78.5	87.8	120.1	110.8	50.8
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°	8863.0	8863.0	8863.0	8863.0	8863.0	8863.0	8863.0	8863.0	8863.0	8863.0	8863.0
2.5°	8893.0	8729.1	8403.5	7999.3	7703.7	7371.2	7077.9	6867.8	6789.3	6752.3	6683.0
5°	8886.1	8562.8	7888.5	7181.9	6613.8	6031.8	5540.0	5221.3	5193.6	4981.1	4960.3
7.5°	8888.4	8394.2	7320.4	6281.2	5415.3	4819.5	4413.0	4306.8	4179.8	4147.5	4163.6
10°	8895.3	8179.5	6710.8	5389.9	4551.6	4161.3	4008.9	3967.3	3972.0	3985.8	3988.1
12.5°	8904.6	7971.6	6078.0	4713.2	4066.6	3905.0	3888.8	3925.8	3965.0	3995.0	4002.0
15°	8916.1	7733.8	5461.4	4168.2	3824.2	3810.3	3863.4	3925.8	3981.2	4025.1	4032.0
17.5°	8902.3	7456.7	4944.2	3833.4	3690.2	3757.2	3844.9	3923.5	3974.3	4015.8	4020.5
20°	8869.9	7147.2	4445.4	3597.9	3607.1	3715.6	3810.3	3884.2	3939.6	3960.4	3976.6
22.5°	8745.2	6777.7	4011.2	3415.4	3507.8	3657.9	3771.0	3814.9	3752.6	3708.7	3720.2
25°	8532.8	6297.4	3607.1	3267.6	3417.7	3577.1	3692.5	3586.3	3535.5	3517.0	3526.3
27.5°	8267.2	5770.9	3302.3	3112.9	3302.3	3487.0	3454.7	3436.2	3413.1	3383.1	3390.0
30°	7980.9	5255.9	3043.6	2992.8	3177.6	3283.8	3297.6	3327.7	3302.3	3256.1	3274.6
32.5°	7715.3	4771.0	2847.3	2891.2	3089.8	3073.6	3177.6	3212.2	3094.4	2939.7	2946.6
35°	7489.0	4320.7	2699.5	2791.9	2939.7	2946.6	3050.6	2930.5	2803.5	2729.6	2734.2
37.5°	7318.1	3969.6	2602.6	2706.5	2748.0	2835.8	2780.4	2718.0	2701.9	2651.1	2653.4
40°	7216.5	3662.5	2540.2	2639.5	2632.6	2692.6	2514.8	2577.2	2600.2	2584.1	2586.4
42.5°	7114.9	3445.4	2475.5	2547.1	2544.8	2427.1	2387.8	2440.9	2500.9	2507.9	2503.3
45°	7034.1	3276.9	2408.6	2406.3	2452.5	2267.7	2256.2	2288.5	2373.9	2415.5	2413.2
47.5°	6944.0	3136.0	2307.0	2242.3	2256.2	2168.4	2149.9	2163.8	2267.7	2334.7	2353.2
50°	6830.8	2995.1	2180.0	2092.2	2034.5	2076.0	2080.7	2083.0	2186.9	2263.1	2279.3
52.5°	6740.8	2888.9	2034.5	1969.8	1900.5	1992.9	2027.5	2032.2	2094.5	2156.9	2168.4
55°	6793.9	2828.9	1891.3	1845.1	1782.8	1907.5	1974.4	1983.7	1997.5	2043.7	2050.6
57.5°	6953.2	2842.7	1775.8	1715.8	1669.6	1805.9	1919.0	1925.9	1916.7	1972.1	1981.4
60°	7001.7	2835.8	1690.4	1572.6	1544.9	1697.3	1838.2	1852.0	1849.7	1930.6	1946.7
62.5°	6798.5	2748.0	1604.9	1452.5	1434.1	1586.5	1725.0	1780.5	1792.0	1907.5	1928.2
65°	6320.5	2567.9	1491.8	1325.5	1325.5	1468.7	1616.5	1692.7	1725.0	1879.8	1902.8
67.5°	5690.1	2355.5	1376.3	1217.0	1212.4	1355.5	1501.0	1579.5	1630.3	1840.5	1854.3
70°	4722.5	2069.1	1233.2	1099.2	1099.2	1228.5	1360.2	1454.8	1528.7	1766.6	1766.6
72.5°	3235.3	1720.4	1060.0	965.3	967.6	1087.7	1221.6	1327.8	1415.6	1618.8	1623.4
75°	2046.0	1344.0	870.6	822.1	831.3	944.5	1083.1	1193.9	1369.4	1600.3	1607.3
77.5°	1087.7	944.5	692.8	681.2	692.8	796.7	951.4	1103.8	1374.0	1387.9	1364.8
80°	704.3	669.7	547.3	524.2	528.8	642.0	847.5	1048.4	1103.8	1117.7	1066.9
82.5°	383.3	424.9	388.0	364.9	364.9	501.1	722.8	833.6	792.1	658.1	628.1
85°	164.0	198.6	200.9	175.5	168.6	309.4	484.9	454.9	422.6	404.1	399.5
87.5°	46.2	64.7	64.7	48.5	36.9	85.4	97.0	27.7	0.0	2.3	4.6
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)