

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: P456458

Luminaire Tested: **GALN-SA7D-727-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456458
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-SA7D-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45503 lumens
Efficiency: N/A
Efficacy: 105.1 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

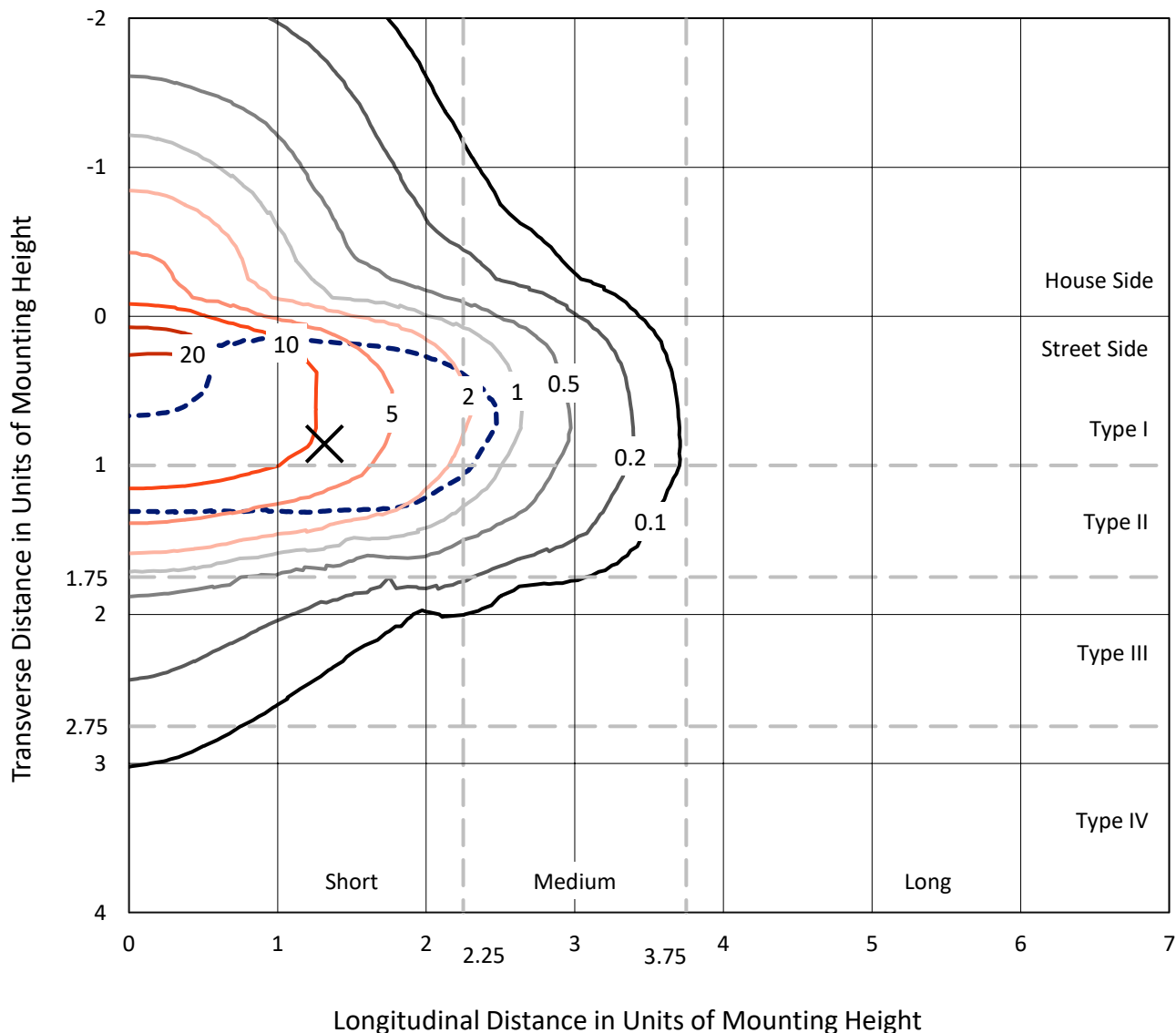
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

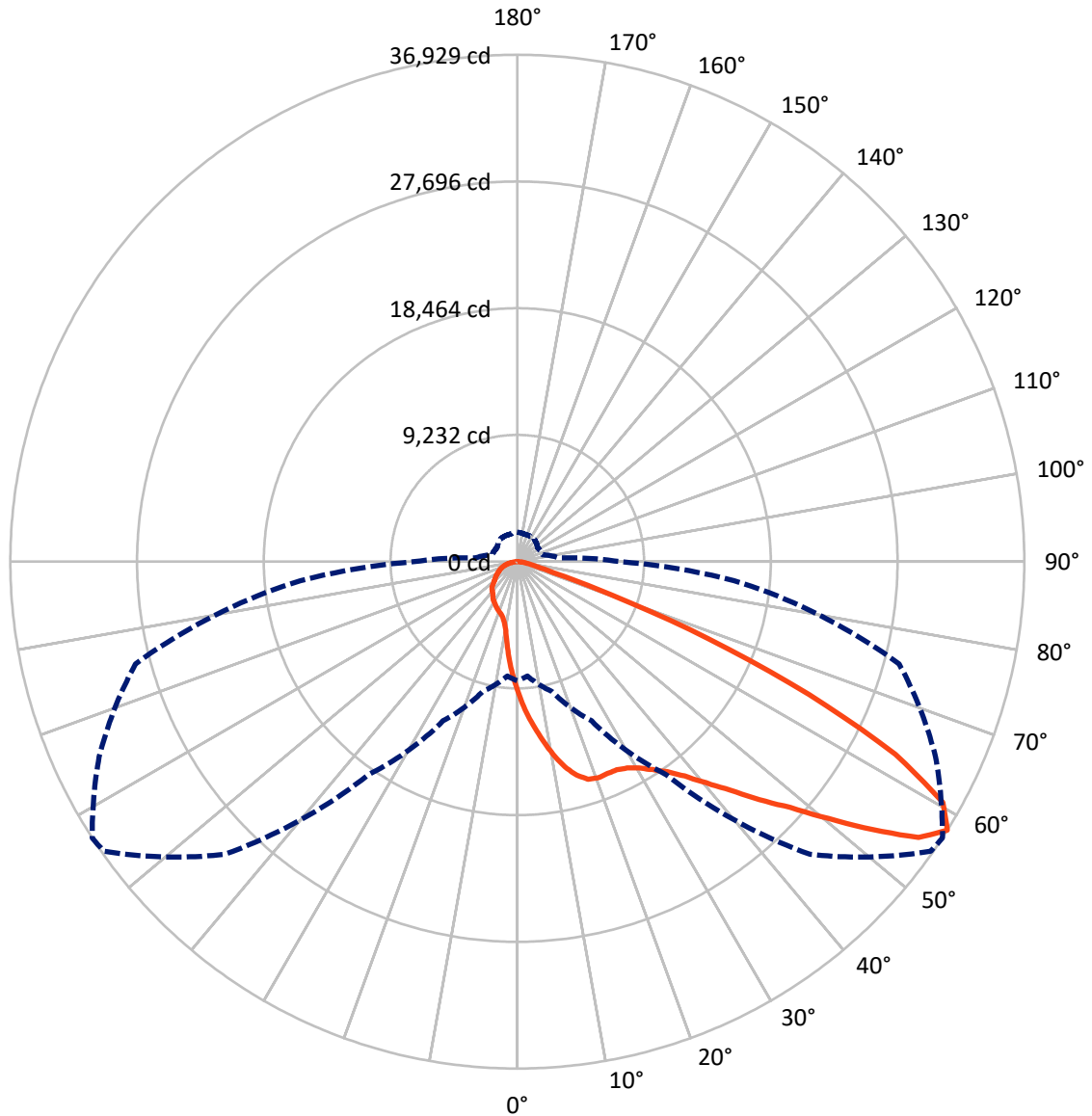
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.3 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	6919.7	0.0	6919.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	38583.3	0.0	38583.3
	% Fixture	84.8	0.0	84.8
Total	Lumens	45503.0	0.0	45503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	918.8	2.0
10°-20°	2707.7	6.0
20°-30°	4496.2	9.9
30°-40°	6772.5	14.9
40°-50°	10168.3	22.3
50°-60°	11397.4	25.0
60°-70°	6670.3	14.7
70°-80°	1973.0	4.3
80°-90°	398.8	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°	45503.0	100.0
0°-180°	45503.0	100.0

Coefficient of Utilization



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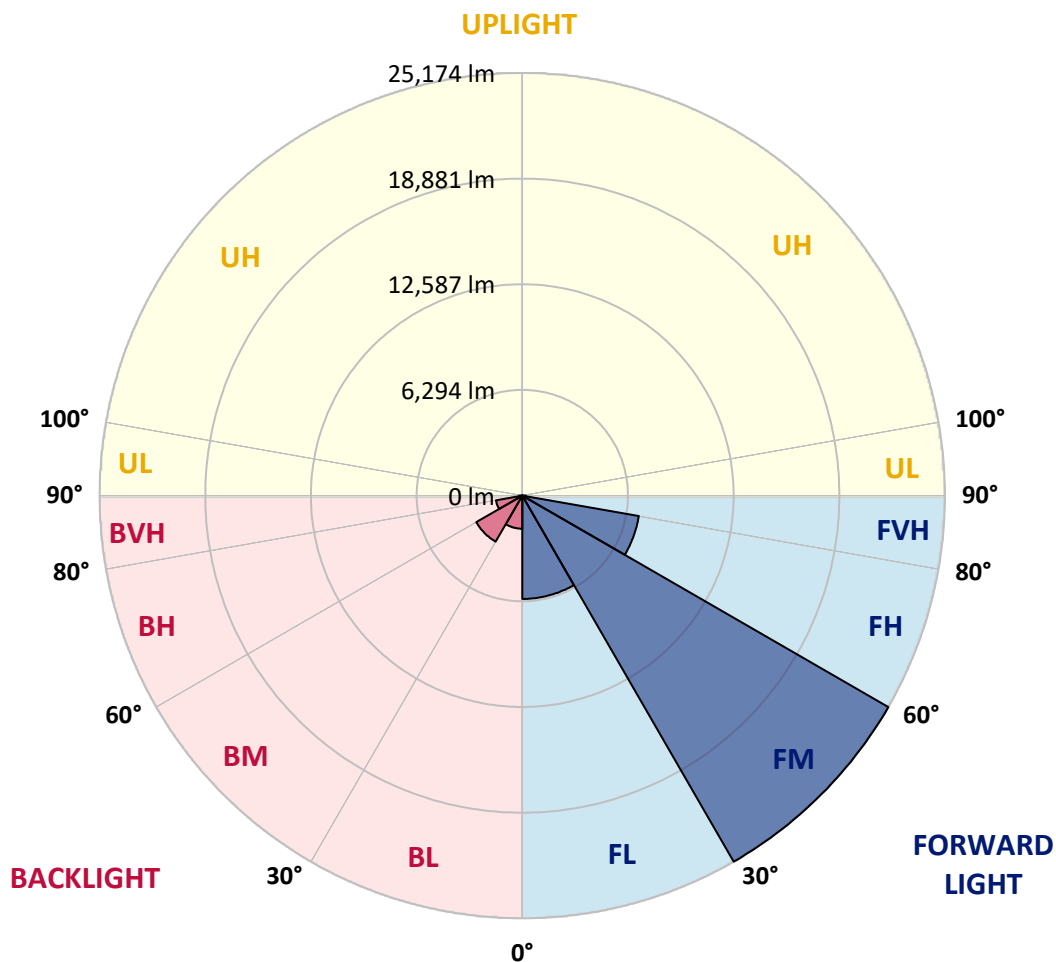
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6151.0	13.5			
FM	(30°-60°)	25174.3	55.3			
FH	(60°-80°)	7051.2	15.5			G3/7500
FVH	(80°-90°)	206.9	0.5			G2/225
BL	(0°-30°)	1971.7	4.3	B3/2500		
BM	(30°-60°)	3164.0	7.0	B3/5000		
BH	(60°-80°)	1592.2	3.5	B3/2500		G3/2500
BVH	(80°-90°)	191.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9559.7	9559.7	9559.7	9559.7	9559.7	9559.7	9559.7	9559.7	9559.7	9559.7	9559.7
2.5°	11878.6	11749.1	11646.9	11557.3	11440.2	11123.9	10807.5	10802.6	10551.0	10162.4	9763.9
5°	13813.9	13639.6	13662.0	13383.0	13104.1	12645.8	11975.7	11940.9	11405.3	10678.0	9938.3
7.5°	15074.3	15076.8	15007.0	14847.6	14546.2	14025.6	13266.0	13094.1	12349.3	11245.9	10137.5
10°	15009.5	15076.8	15193.8	15330.8	15423.0	15166.4	14474.0	14264.8	13295.8	11933.4	10359.2
12.5°	14147.7	14252.3	14419.2	14762.9	15318.4	15741.8	15505.2	15335.8	14391.8	12618.4	10603.3
15°	13609.7	13672.0	13764.1	13995.8	14593.6	15607.3	16220.0	16130.4	15425.5	13393.0	10877.3
17.5°	13445.3	13507.6	13537.5	13679.4	14105.4	15144.0	16501.5	16660.9	16342.1	14105.4	11153.8
20°	13609.7	13639.6	13639.6	13724.3	14058.0	14872.5	16489.0	16810.4	17094.3	14959.7	11412.8
22.5°	14040.6	14053.0	14035.6	14065.5	14314.6	14947.2	16372.0	16770.5	17702.1	15684.5	11614.6
25°	14740.5	14760.4	14645.9	14576.1	14757.9	15276.0	16436.7	16802.9	18177.8	16377.0	11749.1
27.5°	15535.1	15560.0	15420.5	15258.6	15343.3	15682.0	16690.8	17019.6	18534.0	17059.4	11833.8
30°	16509.0	16518.9	16284.8	16090.5	16035.7	16287.3	17124.2	17430.6	18977.3	17864.0	11960.8
32.5°	17505.3	17580.0	17278.6	17004.6	16912.5	16989.7	17764.3	18060.7	19505.4	18728.3	12165.0
35°	18860.3	18872.7	18511.6	18177.8	17873.9	17973.6	18583.8	18798.0	20235.2	19727.1	12454.0
37.5°	20551.5	20666.1	20167.9	19545.2	19171.6	19027.2	19575.1	19809.3	21258.9	20952.5	12889.8
40°	22429.6	22471.9	22046.0	21657.4	20975.0	20556.5	20935.1	21189.2	22521.7	22414.6	13395.5
42.5°	23610.2	23702.4	23734.8	23694.9	23181.8	22479.4	22623.9	22743.4	24016.2	23787.1	13913.6
45°	24008.7	24145.7	24609.0	25590.4	25645.2	24952.8	24616.5	24731.1	25645.2	25171.9	14409.2
47.5°	23348.7	23582.8	24437.2	26449.7	27956.6	28009.0	26995.2	26743.6	27129.7	26320.2	14767.9
50°	21642.5	21692.3	23000.0	25914.2	29040.1	30930.7	29882.0	29413.8	28539.5	27169.6	15014.5
52.5°	19002.3	19059.5	20155.5	23425.9	28372.6	32973.1	33259.5	32422.6	29971.7	27829.6	15176.4
55°	14105.4	14436.6	15642.2	18803.0	25209.3	32781.3	35944.6	35468.9	31702.8	28352.7	15430.5
57.5°	8672.9	8369.1	9798.8	12792.7	18959.9	30146.1	36774.1	36928.5	33608.3	28791.1	15856.4
60°	3990.2	4050.0	4640.3	6598.1	11557.3	23582.8	34637.0	35613.3	34661.9	28776.1	15963.5
62.5°	2749.8	2695.0	2545.6	2896.8	5270.5	14914.9	29256.8	30910.7	32549.7	27881.9	15537.6
65°	2458.4	2403.6	2114.7	2017.5	2421.0	6501.0	21268.9	23356.2	27406.2	25625.3	14476.5
67.5°	2296.5	2221.8	1922.9	1733.6	1728.6	2587.9	12541.1	15054.3	20327.4	21664.9	12543.6
70°	2127.1	2067.4	1771.0	1561.7	1472.1	1626.5	5512.1	7215.8	13198.7	15612.3	9771.4
72.5°	1957.8	1888.0	1621.5	1397.3	1280.3	1218.0	2112.2	2747.3	7457.4	9360.4	5990.4
75°	1711.2	1676.3	1449.6	1265.3	1138.3	983.9	1340.0	1529.3	3566.8	4299.1	3006.4
77.5°	1497.0	1459.6	1287.7	1105.9	1013.8	799.5	951.5	1038.7	1504.4	1743.6	1357.5
80°	1095.9	1133.3	1086.0	976.4	904.2	627.7	640.1	712.4	894.2	988.8	829.4
82.5°	694.9	764.7	836.9	752.2	685.0	495.7	443.4	470.8	610.2	647.6	368.6
85°	291.4	296.4	485.7	458.3	391.1	293.9	266.5	281.5	326.3	341.2	171.9
87.5°	112.1	109.6	171.9	159.4	122.0	84.7	84.7	94.7	129.5	119.6	54.8
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°	9559.7	9559.7	9559.7	9559.7	9559.7	9559.7	9559.7	9559.7	9559.7	9559.7	9559.7
2.5°	9592.0	9415.2	9064.0	8628.1	8309.3	7950.6	7634.3	7407.6	7322.9	7283.1	7208.4
5°	9584.6	9235.9	8508.5	7746.4	7133.6	6505.9	5975.4	5631.7	5601.8	5372.6	5350.2
7.5°	9587.1	9054.0	7895.8	6775.0	5840.9	5198.3	4759.9	4645.3	4508.3	4473.5	4490.9
10°	9594.5	8822.4	7238.2	5813.5	4909.4	4488.4	4324.0	4279.2	4284.2	4299.1	4301.6
12.5°	9604.5	8598.2	6555.8	5083.7	4386.3	4211.9	4194.5	4234.3	4276.7	4309.1	4316.5
15°	9616.9	8341.7	5890.7	4495.9	4124.8	4109.8	4167.1	4234.3	4294.1	4341.5	4348.9
17.5°	9602.0	8042.8	5332.8	4134.7	3980.3	4052.5	4147.2	4231.9	4286.7	4331.5	4336.5
20°	9567.1	7709.0	4794.8	3880.7	3890.6	4007.7	4109.8	4189.5	4249.3	4271.7	4289.1
22.5°	9432.6	7310.5	4326.5	3683.9	3783.5	3945.4	4067.5	4114.8	4047.5	4000.2	4012.7
25°	9203.5	6792.4	3890.6	3524.5	3686.4	3858.2	3982.8	3868.2	3813.4	3793.5	3803.4
27.5°	8917.0	6224.5	3561.8	3357.6	3561.8	3761.1	3726.2	3706.3	3681.4	3649.0	3656.5
30°	8608.2	5669.0	3282.9	3228.1	3427.3	3541.9	3556.9	3589.2	3561.8	3512.0	3531.9
32.5°	8321.7	5146.0	3071.1	3118.5	3332.7	3315.2	3427.3	3464.7	3337.7	3170.8	3178.3
35°	8077.6	4660.3	2911.7	3011.4	3170.8	3178.3	3290.3	3160.8	3023.8	2944.1	2949.1
37.5°	7893.3	4281.7	2807.1	2919.2	2964.0	3058.7	2998.9	2931.7	2914.2	2859.4	2861.9
40°	7783.7	3950.4	2739.9	2847.0	2839.5	2904.3	2712.5	2779.7	2804.6	2787.2	2789.7
42.5°	7674.1	3716.3	2670.1	2747.3	2744.9	2617.8	2575.5	2632.8	2697.5	2705.0	2700.0
45°	7587.0	3534.4	2597.9	2595.4	2645.2	2446.0	2433.5	2468.4	2560.5	2605.4	2602.9
47.5°	7489.8	3382.5	2488.3	2418.6	2433.5	2338.9	2318.9	2333.9	2446.0	2518.2	2538.1
50°	7367.8	3230.6	2351.3	2256.7	2194.4	2239.2	2244.2	2246.7	2358.8	2441.0	2458.4
52.5°	7270.6	3116.0	2194.4	2124.6	2049.9	2149.6	2186.9	2191.9	2259.1	2326.4	2338.9
55°	7327.9	3051.2	2040.0	1990.1	1922.9	2057.4	2129.6	2139.6	2154.5	2204.4	2211.8
57.5°	7499.8	3066.2	1915.4	1850.7	1800.8	1947.8	2069.8	2077.3	2067.4	2127.1	2137.1
60°	7552.1	3058.7	1823.3	1696.2	1666.3	1830.7	1982.7	1997.6	1995.1	2082.3	2099.7
62.5°	7332.9	2964.0	1731.1	1566.7	1546.8	1711.2	1860.6	1920.4	1932.9	2057.4	2079.8
65°	6817.3	2769.8	1609.1	1429.7	1429.7	1584.1	1743.6	1825.8	1860.6	2027.5	2052.4
67.5°	6137.3	2540.6	1484.5	1312.6	1307.7	1462.1	1619.0	1703.7	1758.5	1985.2	2000.1
70°	5093.7	2231.7	1330.1	1185.6	1185.6	1325.1	1467.1	1569.2	1648.9	1905.5	1905.5
72.5°	3489.6	1855.6	1143.3	1041.2	1043.6	1173.2	1317.6	1432.2	1526.9	1746.0	1751.0
75°	2206.8	1449.6	939.0	886.7	896.7	1018.7	1168.2	1287.7	1477.0	1726.1	1733.6
77.5°	1173.2	1018.7	747.2	734.8	747.2	859.3	1026.2	1190.6	1482.0	1497.0	1472.1
80°	759.7	722.3	590.3	565.4	570.4	692.4	914.1	1130.8	1190.6	1205.5	1150.7
82.5°	413.5	458.3	418.5	393.5	393.5	540.5	779.6	899.2	854.3	709.9	677.5
85°	176.8	214.2	216.7	189.3	181.8	333.8	523.1	490.7	455.8	435.9	430.9
87.5°	49.8	69.7	69.7	52.3	39.9	92.2	104.6	29.9	0.0	2.5	5.0
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)