

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: P459374

Luminaire Tested: **GALN-SA8B-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43622 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

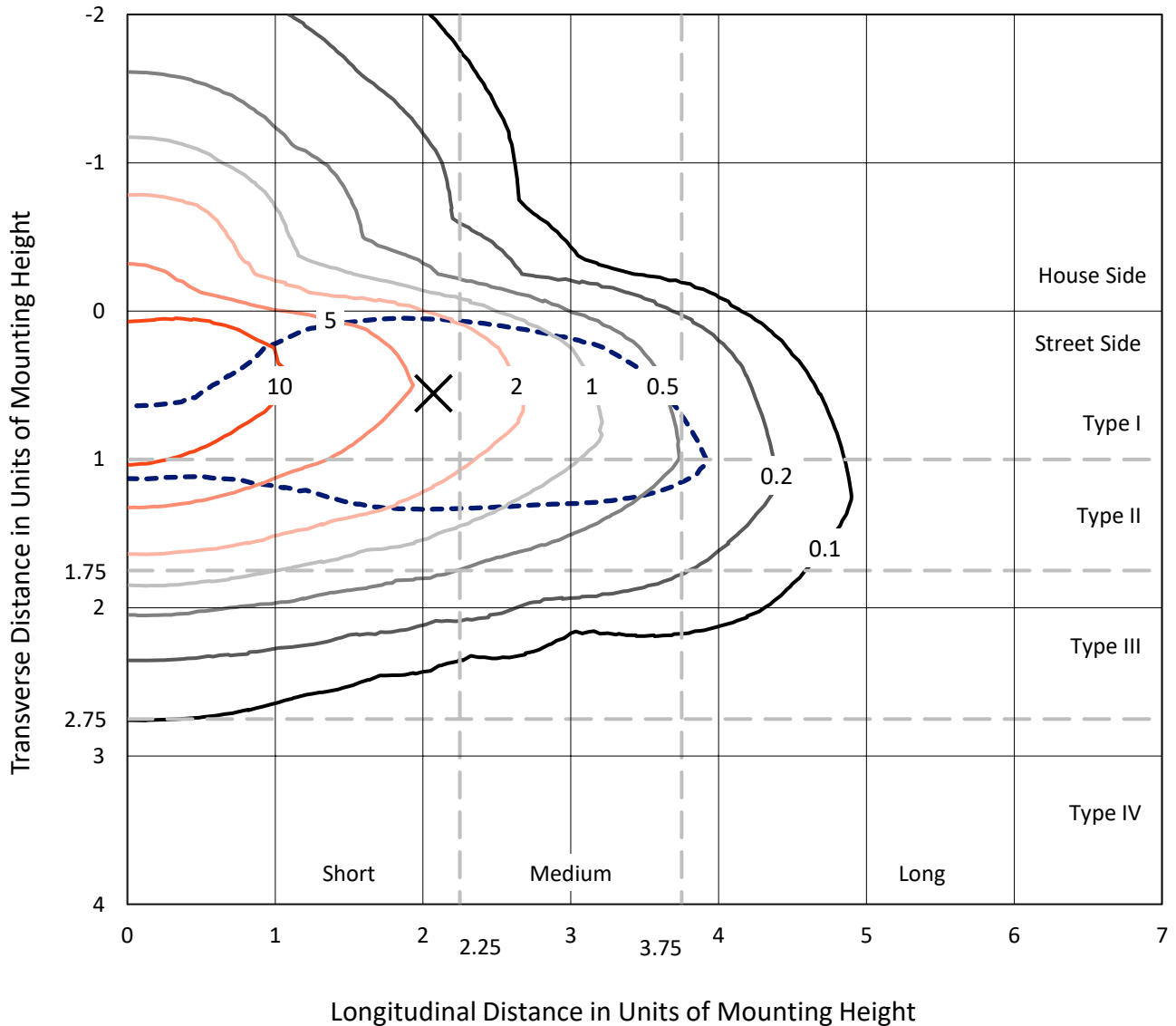
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

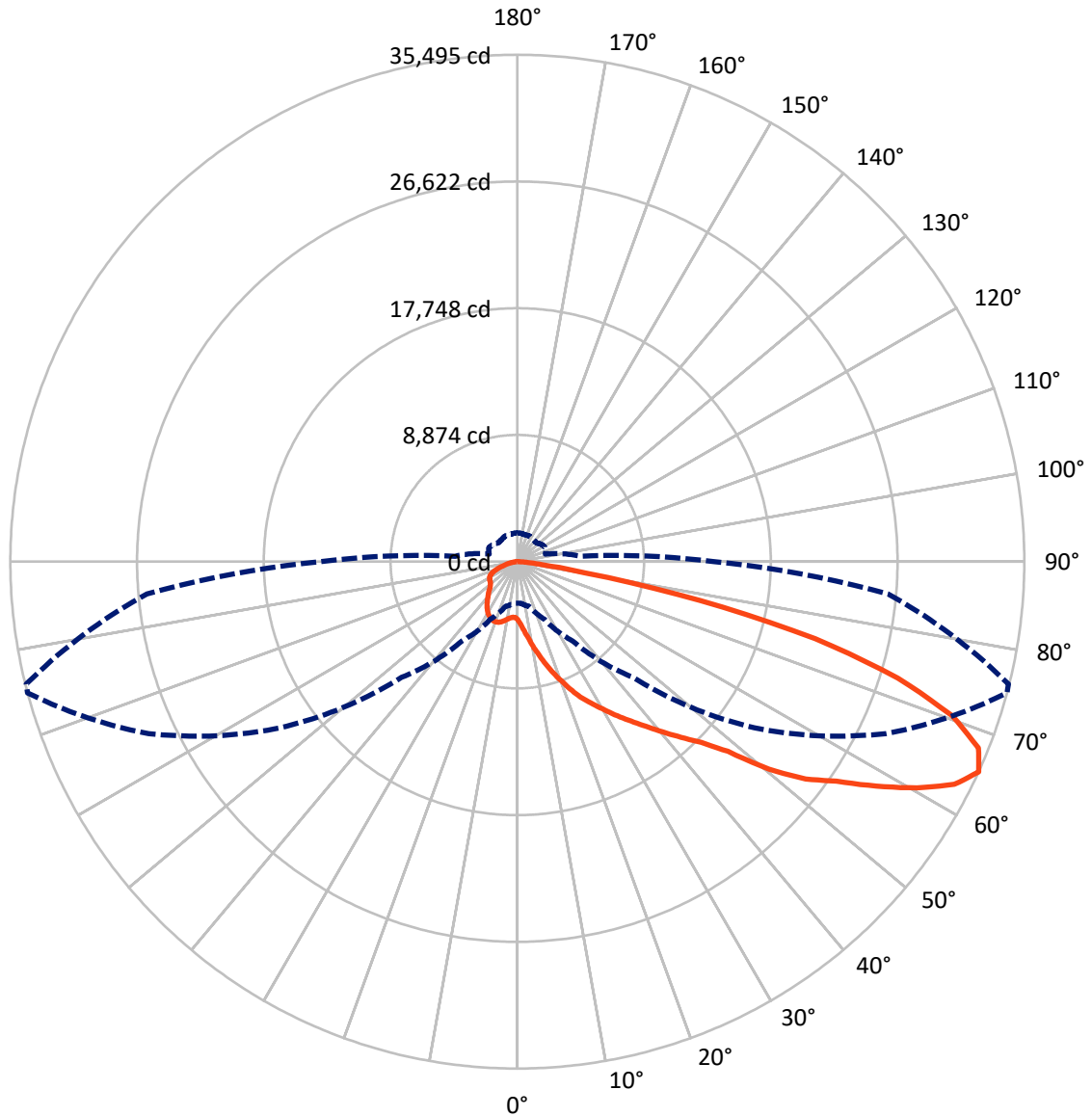
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7333.4	0.0	7333.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	36288.6	0.0	36288.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	43622.0	0.0	43622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.4	1.1
10°-20°	1928.8	4.4
20°-30°	3725.8	8.5
30°-40°	6051.8	13.9
40°-50°	8324.7	19.1
50°-60°	9828.7	22.5
60°-70°	8611.6	19.7
70°-80°	4111.2	9.4
80°-90°	547.0	1.3
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°	43622.0	100.0
0°-180°	43622.0	100.0

Coefficient of Utilization



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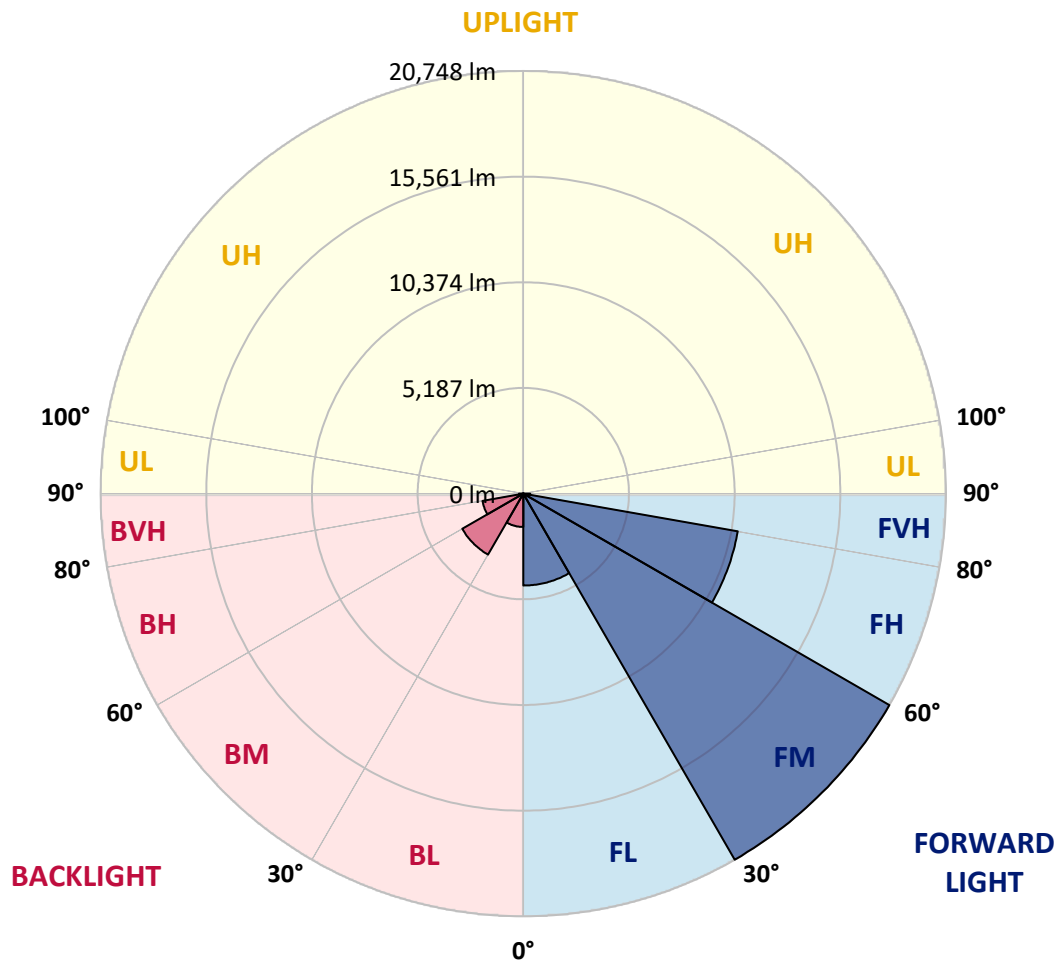
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4509.8	10.3			
FM	(30°-60°)	20747.5	47.6			
FH	(60°-80°)	10689.3	24.5			G4/12000
FVH	(80°-90°)	341.9	0.8			G3/500
BL	(0°-30°)	1637.2	3.8	B3/2500		
BM	(30°-60°)	3457.7	7.9	B3/5000		
BH	(60°-80°)	2033.4	4.7	B3/2500		G3/2500
BVH	(80°-90°)	205.2	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0
2.5°	5385.1	5349.6	5311.8	5207.7	5096.5	4971.1	4791.2	4618.5	4389.0	4381.9	4211.6
5°	6878.1	6854.4	6686.4	6589.4	6331.5	5988.5	5697.4	5245.5	4826.7	4777.0	4445.8
7.5°	8250.4	8158.1	8094.2	7919.2	7663.6	7223.5	6660.4	6050.0	5349.6	5283.4	4734.5
10°	9284.4	9274.9	9241.8	9090.3	8898.7	8461.0	7836.3	6960.9	6012.1	5882.0	5084.6
12.5°	10058.1	10065.2	10060.4	10058.1	9920.8	9549.4	8872.7	7949.9	6681.7	6589.4	5489.2
15°	10566.8	10637.7	10666.1	10784.4	10796.3	10547.8	9965.8	8905.8	7436.5	7299.2	5924.6
17.5°	10902.7	10938.2	11070.7	11271.8	11435.1	11390.1	10872.0	9790.7	8207.8	7978.3	6376.5
20°	11224.5	11286.0	11387.8	11662.2	11950.9	12083.4	11719.0	10696.9	8972.0	8825.3	6875.7
22.5°	11894.1	11981.7	12017.1	12156.7	12402.8	12637.0	12471.4	11565.2	9809.6	9610.9	7405.7
25°	13027.4	13119.7	13020.3	12987.2	13067.7	13183.6	13148.1	12383.9	10599.9	10316.0	7907.3
27.5°	14503.9	14515.7	14321.7	14137.1	13938.4	13879.2	13770.4	13110.3	11286.0	11049.4	8411.3
30°	16089.1	16032.3	15710.5	15376.9	15040.9	14709.7	14397.4	13810.6	12050.3	11778.2	8905.8
32.5°	17560.8	17530.0	17172.8	16654.6	16086.7	15774.4	15142.7	14518.1	12868.9	12606.3	9414.5
35°	18663.4	18708.3	18315.6	17750.1	17130.2	16853.3	16056.0	15261.0	13716.0	13429.7	9968.1
37.5°	19446.5	19422.9	19075.1	18585.3	18041.1	17799.8	17123.1	16072.5	14626.9	14352.4	10573.9
40°	19725.7	19711.5	19453.6	19096.3	18750.9	18665.7	18239.8	16948.0	15670.3	15348.5	11302.6
42.5°	19548.3	19579.0	19408.7	19311.7	19247.8	19309.3	19349.5	18095.5	16808.4	16512.6	12092.9
45°	19004.1	18987.5	18963.8	19122.4	19482.0	19886.6	20447.4	19179.2	18045.8	17809.2	13152.8
47.5°	18031.6	18149.9	18209.1	18646.8	19432.3	20390.6	21710.8	20631.9	19841.7	19635.8	14768.9
50°	16671.2	16765.8	17116.0	17894.4	19065.6	20579.9	22945.9	23007.4	22837.1	22451.4	16524.5
52.5°	14546.4	14693.1	15414.8	16841.5	18313.2	20501.8	23693.6	25044.6	25269.4	24980.7	18254.0
55°	12168.6	12374.4	13136.3	15007.8	17276.9	20075.9	24209.4	26225.2	27122.0	26854.6	19919.7
57.5°	9840.4	10058.1	10841.2	12653.6	15469.2	19134.2	24547.7	27540.8	29644.2	29296.4	21992.4
60°	7375.0	7602.1	8274.1	10140.9	12894.9	17293.4	24318.2	28681.2	32164.0	32015.0	24067.4
62.5°	4758.1	5008.9	5593.3	7138.4	9911.4	14778.3	23090.2	29310.6	34345.5	34165.7	25581.7
65°	2898.4	2926.8	3248.6	4431.6	6783.5	11442.2	20281.7	28475.3	35495.4	35441.0	26043.1
67.5°	1873.9	1918.9	2065.6	2654.7	4067.2	7947.5	16216.9	25718.9	34823.4	34804.5	25089.5
70°	1582.9	1597.1	1663.3	1791.1	2363.7	4819.6	11387.8	21325.2	32270.5	32270.5	22796.8
72.5°	1414.9	1433.8	1457.5	1497.7	1687.0	2730.4	6795.3	16600.2	27862.5	28047.1	19403.9
75°	1284.8	1280.0	1294.2	1301.3	1438.6	1784.0	3513.6	12277.4	21554.7	21185.6	14051.9
77.5°	1100.2	1107.3	1100.2	1131.0	1270.6	1358.1	1784.0	8238.6	13062.9	12585.0	7053.2
80°	903.8	915.7	927.5	946.4	1086.0	1031.6	1071.8	3754.9	4831.5	4729.7	2179.1
82.5°	679.1	695.6	714.5	759.5	854.1	681.4	676.7	1604.2	1743.8	1597.1	802.1
85°	274.5	324.1	489.8	534.7	537.1	373.8	416.4	669.6	712.2	695.6	314.7
87.5°	63.9	75.7	158.5	239.0	220.0	139.6	153.8	217.7	248.4	229.5	106.5
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°	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0	4053.0
2.5°	4133.5	4050.7	3908.7	3799.9	3721.8	3653.2	3610.6	3584.6	3575.1	3572.7	3575.1
5°	4273.1	4126.4	3901.6	3759.6	3681.6	3636.6	3610.6	3608.2	3610.6	3613.0	3605.9
7.5°	4464.7	4254.1	3960.8	3828.3	3769.1	3736.0	3724.2	3719.4	3721.8	3719.4	3719.4
10°	4720.3	4431.6	4076.7	3939.5	3889.8	3851.9	3833.0	3821.2	3811.7	3802.2	3797.5
12.5°	5001.8	4628.0	4202.1	4069.6	3998.6	3939.5	3896.9	3866.1	3844.8	3823.5	3818.8
15°	5316.5	4836.2	4341.7	4157.1	4055.4	3967.9	3894.5	3844.8	3807.0	3776.2	3773.8
17.5°	5617.0	5032.6	4436.3	4197.4	4048.3	3925.3	3828.3	3759.6	3712.3	3672.1	3667.4
20°	5938.8	5219.5	4478.9	4171.3	3977.3	3828.3	3700.5	3617.7	3563.3	3518.3	3511.2
22.5°	6262.9	5378.0	4474.2	4088.5	3854.3	3679.2	3544.3	3456.8	3392.9	3348.0	3331.4
25°	6572.9	5505.8	4415.0	3956.0	3683.9	3501.7	3364.5	3284.1	3227.3	3172.9	3172.9
27.5°	6852.1	5581.5	4303.8	3795.1	3508.8	3317.2	3208.4	3135.0	3083.0	3047.5	3026.2
30°	7126.5	5617.0	4152.4	3591.7	3324.3	3161.0	3073.5	3030.9	2983.6	2943.4	2938.6
32.5°	7372.6	5609.9	3963.1	3392.9	3149.2	3033.3	2997.8	2964.7	2915.0	2858.2	2844.0
35°	7611.6	5562.6	3738.4	3175.2	3002.5	2957.6	2967.0	2919.7	2829.8	2758.8	2747.0
37.5°	7871.8	5477.4	3492.3	2997.8	2879.5	2922.1	2945.7	2841.6	2694.9	2583.7	2557.7
40°	8172.3	5380.4	3236.7	2820.3	2782.5	2888.9	2888.9	2697.3	2496.2	2427.6	2408.6
42.5°	8524.9	5299.9	3023.8	2671.3	2702.0	2808.5	2796.7	2505.6	2422.8	2387.3	2377.9
45°	9083.2	5271.5	2803.8	2541.1	2635.8	2713.9	2616.8	2439.4	2392.1	2363.7	2354.2
47.5°	9965.8	5304.7	2609.7	2444.1	2560.1	2619.2	2415.7	2394.4	2361.3	2321.1	2316.4
50°	10784.4	5273.9	2472.5	2389.7	2493.8	2505.6	2332.9	2340.0	2321.1	2276.1	2266.7
52.5°	11454.0	5176.9	2385.0	2361.3	2437.0	2306.9	2254.8	2280.9	2273.8	2217.0	2207.5
55°	12189.9	5117.8	2342.4	2361.3	2399.2	2134.2	2181.5	2219.4	2209.9	2169.7	2167.3
57.5°	13081.9	5129.6	2311.6	2368.4	2361.3	2046.6	2108.1	2153.1	2150.7	2138.9	2138.9
60°	13995.2	5134.3	2264.3	2366.0	2316.4	1978.0	2032.4	2096.3	2101.0	2108.1	2108.1
62.5°	14298.0	4928.5	2172.0	2323.5	2217.0	1911.8	1961.5	2049.0	2044.3	2063.2	2065.6
65°	13732.5	4358.3	2034.8	2226.4	2089.2	1864.4	1907.0	1987.5	1961.5	2011.1	2020.6
67.5°	12499.8	3605.9	1821.9	2051.4	1947.3	1814.8	1871.5	1902.3	1855.0	1952.0	1954.4
70°	10803.4	2815.6	1552.1	1802.9	1786.4	1762.7	1843.1	1795.8	1729.6	1847.9	1824.2
72.5°	9033.6	2150.7	1239.8	1474.0	1571.1	1684.6	1793.5	1658.6	1566.3	1601.8	1559.2
75°	6785.8	1590.0	996.1	1154.6	1308.4	1573.4	1748.5	1493.0	1351.0	1317.9	1308.4
77.5°	3459.2	1038.7	745.3	863.6	981.9	1422.0	1687.0	1299.0	1119.1	1067.1	1043.4
80°	1235.1	645.9	525.3	596.2	662.5	1223.2	1474.0	1074.2	868.3	858.9	868.3
82.5°	572.6	416.4	352.5	390.4	392.8	816.3	1123.9	802.1	660.1	1003.2	847.0
85°	246.1	208.2	198.7	194.0	179.8	364.4	631.7	430.6	672.0	300.5	276.8
87.5°	73.3	82.8	73.3	54.4	40.2	40.2	63.9	23.7	16.6	11.8	11.8
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)