

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: P647680

Luminaire Tested: **GALN-SA9D-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647680
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-SA9D-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55225 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

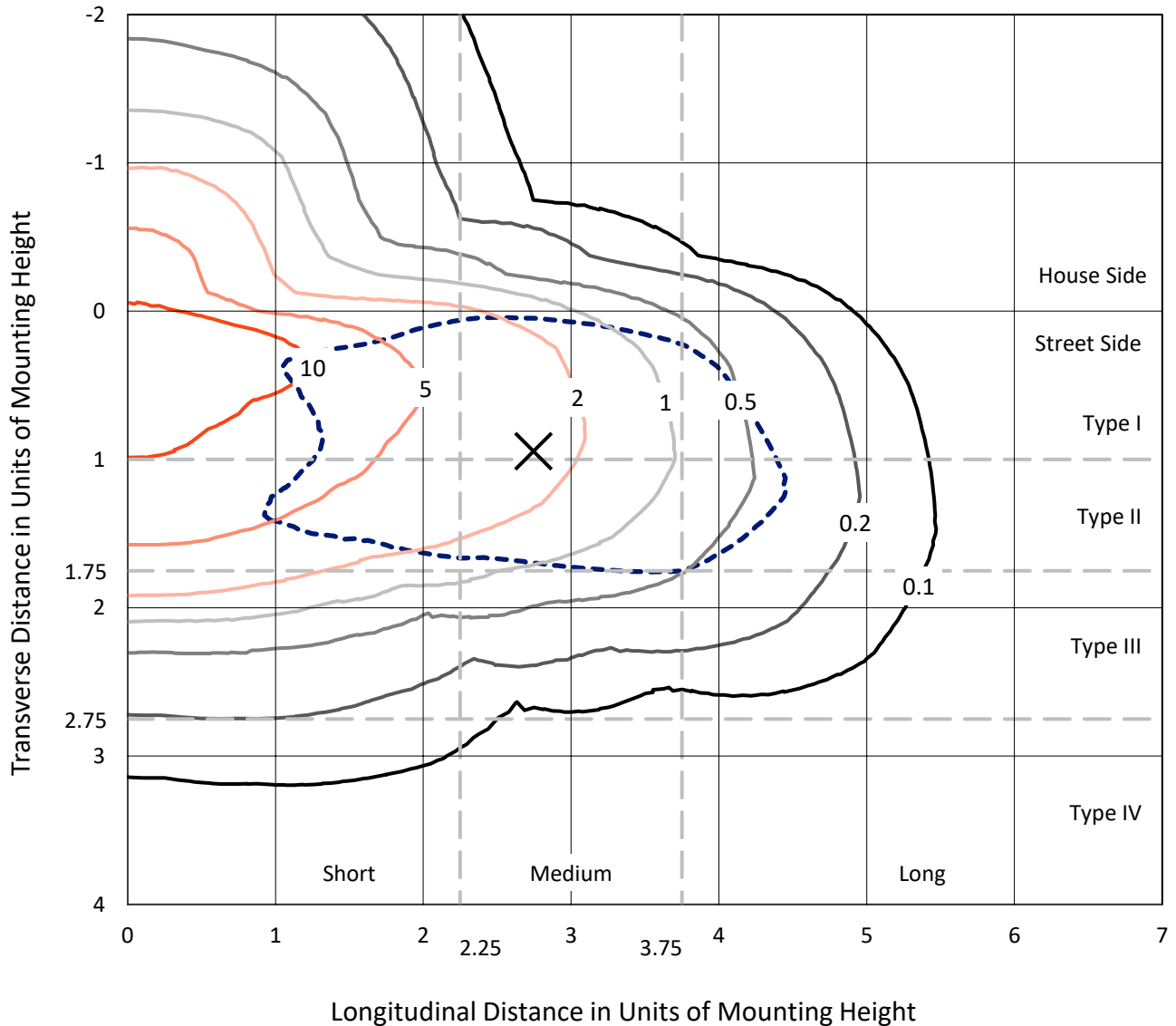
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

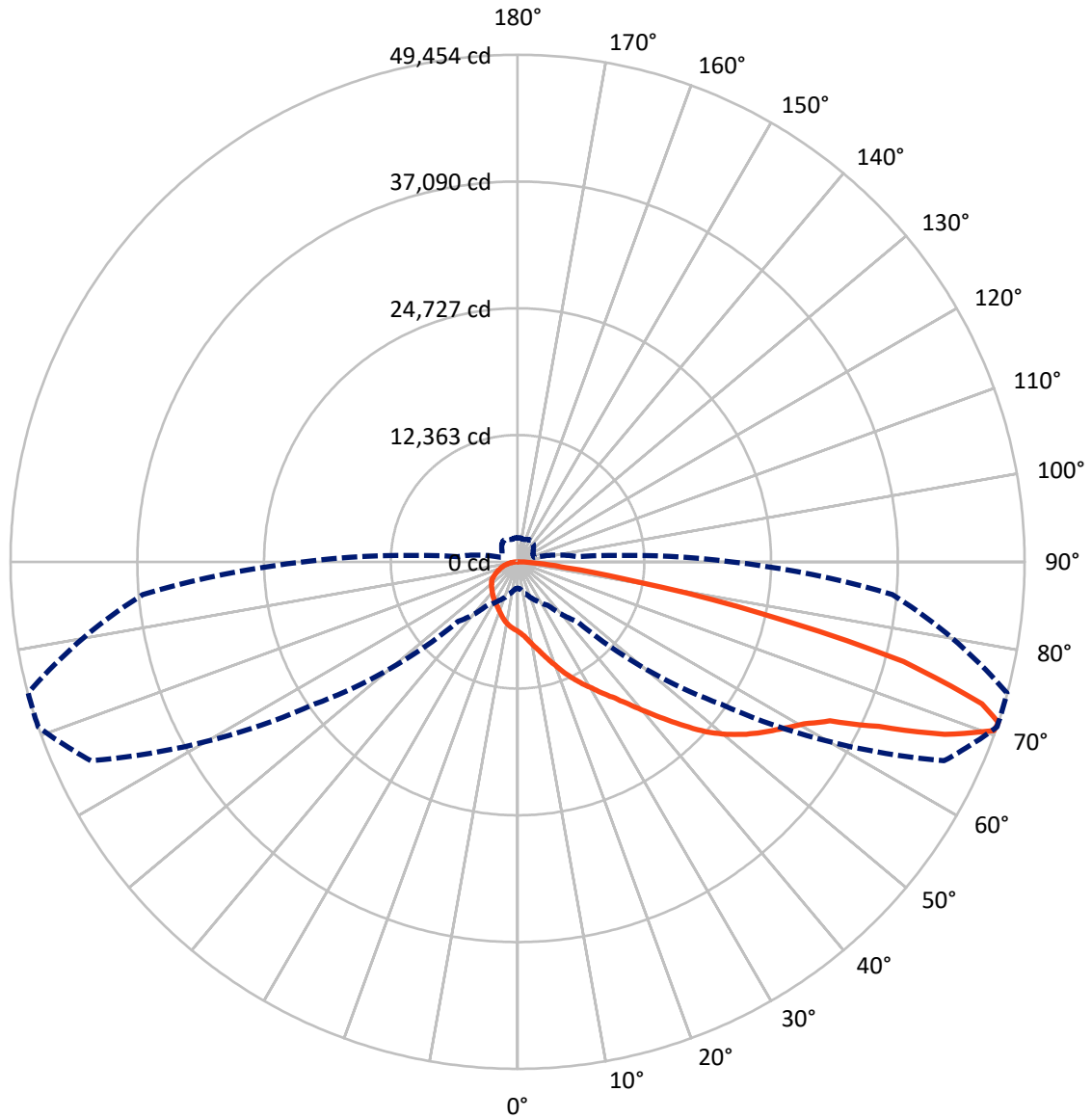
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9932.1	0.0	9932.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	45292.9	0.0	45292.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	55225.0	0.0	55225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.5	1.2
10°-20°	2211.0	4.0
20°-30°	3863.9	7.0
30°-40°	5747.1	10.4
40°-50°	8467.6	15.3
50°-60°	11854.7	21.5
60°-70°	13259.1	24.0
70°-80°	8099.2	14.7
80°-90°	1041.9	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°	55225.0	100.0
0°-180°	55225.0	100.0

Coefficient of Utilization

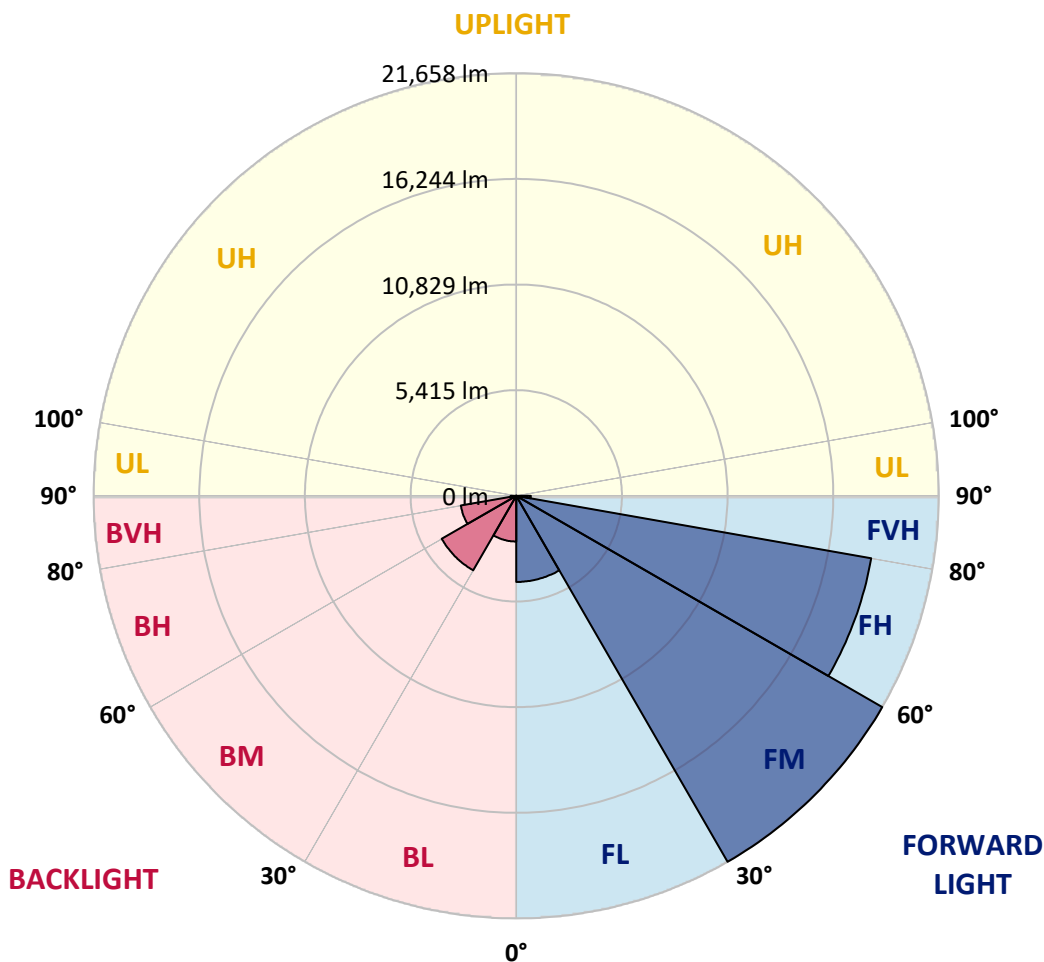


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4412.5	8.0			
FM (30°-60°)	21658.2	39.2			
FH (60°-80°)	18472.6	33.4			G5
FVH (80°-90°)	749.7	1.4			G4/750
BL (0°-30°)	2342.9	4.2	B3/2500		
BM (30°-60°)	4411.2	8.0	B3/5000		
BH (60°-80°)	2885.7	5.2	B4/5000		G4/5000
BVH (80°-90°)	292.2	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8
2.5°	7524.5	7488.1	7491.0	7439.4	7372.7	7299.8	7196.6	7105.6	7032.7	6990.2	6865.8
5°	8337.9	8301.5	8256.0	8143.7	8095.1	7916.0	7688.4	7482.0	7324.1	7236.1	6987.2
7.5°	8996.6	8987.4	8975.3	8911.6	8787.1	8538.2	8344.0	7985.8	7752.1	7585.2	7160.2
10°	9403.3	9418.5	9427.6	9439.7	9388.1	9257.6	8990.5	8538.2	8240.8	8028.3	7384.9
12.5°	9609.7	9624.9	9676.5	9788.8	9858.6	9843.4	9624.9	9181.7	8771.9	8492.7	7624.6
15°	9737.2	9761.4	9852.5	10001.3	10235.0	10383.7	10277.4	9867.7	9418.5	9087.7	7909.9
17.5°	9876.8	9904.1	10004.3	10216.7	10523.3	10845.0	10960.4	10608.3	10119.6	9725.0	8228.6
20°	9955.7	9992.2	10134.8	10414.1	10772.2	11239.7	11622.1	11437.0	10902.7	10465.7	8595.9
22.5°	10083.2	10113.5	10235.0	10532.4	10960.4	11546.2	12283.8	12244.3	11773.8	11209.3	8999.6
25°	10429.2	10477.8	10538.5	10717.5	11130.3	11858.8	12833.1	13106.3	12617.7	11986.3	9369.9
27.5°	11081.8	11121.3	11118.2	11142.5	11376.2	12129.0	13309.7	13959.2	13455.4	12772.5	9728.1
30°	11825.4	11840.6	11852.7	11798.2	11849.8	12405.1	13746.8	14803.1	14299.2	13579.8	10040.7
32.5°	12729.9	12760.3	12657.1	12517.5	12475.0	12815.0	14108.0	15646.8	15297.8	14399.4	10350.3
35°	13798.4	13877.3	13667.9	13422.0	13249.0	13403.8	14593.6	16508.9	16320.7	15446.6	10760.1
37.5°	15018.6	15115.7	14921.4	14438.8	14193.0	14235.5	15228.0	17574.3	17613.7	16639.4	11370.2
40°	16017.2	16144.7	16150.7	15467.8	15094.4	15143.0	16032.3	18721.6	19173.9	18114.5	12089.5
42.5°	16675.8	16800.3	16930.8	16530.1	16138.6	16414.8	16970.3	19966.0	20928.3	19905.3	13094.2
45°	17398.2	17510.5	17583.4	17401.2	17182.7	17899.1	18102.4	21289.5	22798.0	21905.6	14193.0
47.5°	18236.0	18360.4	18430.2	18257.2	18175.2	19201.2	19322.6	22524.8	24795.2	23848.2	15407.1
50°	19352.9	19447.1	19410.6	19301.3	19283.1	20199.8	20494.2	23681.2	26443.3	25939.5	16666.7
52.5°	20743.1	20855.4	20894.8	20740.0	20670.3	20913.1	21438.1	24734.5	27942.8	27736.4	18011.3
55°	21583.9	21762.9	22364.0	22606.8	22773.7	21835.8	22455.0	25897.0	29287.4	29630.4	19456.1
57.5°	20506.4	20737.1	22081.6	23295.7	24865.0	24142.6	23896.8	27111.1	30632.1	31466.7	21186.3
60°	17877.8	17929.4	19662.5	21899.6	25056.2	27108.1	26904.7	29041.5	32089.0	33318.3	23465.7
62.5°	12402.2	12511.4	14560.2	18129.7	22694.8	28176.5	32022.2	32374.3	34177.2	36089.5	26807.6
65°	6395.3	6252.6	8119.4	11394.5	17109.9	25639.0	36168.4	38502.5	38705.9	40423.9	31512.3
67.5°	3936.8	4000.5	4874.6	6653.3	10116.6	18633.6	35734.3	45990.5	44919.1	45744.7	35880.0
70°	2956.4	3035.3	3636.3	4552.9	6167.7	10653.8	28738.1	47805.7	49302.1	49089.6	37209.5
71°	2570.9	2652.8	3278.1	4143.2	5181.2	8222.6	24212.4	45905.6	49453.8	49417.4	36708.7
72.5°	2191.5	2243.1	2731.7	3508.8	4367.7	5764.0	18190.4	41170.5	47344.3	48555.4	34920.9
75°	1721.0	1760.5	1979.0	2677.2	3438.9	3539.2	9761.4	30865.8	38885.0	41191.8	29071.9
77.5°	1402.3	1429.6	1541.9	1988.1	2652.8	2507.2	5120.5	20090.5	24361.2	26683.2	17125.1
80°	1114.0	1144.3	1211.1	1347.7	1988.1	1787.7	2443.4	10180.3	11767.8	11743.5	6835.4
82.5°	865.1	874.1	953.1	989.5	1359.8	1268.8	1323.3	4310.1	4774.5	4932.4	2467.7
85°	546.4	573.7	843.8	758.8	813.5	743.6	652.6	1711.9	2109.5	2079.2	986.5
87.5°	166.9	176.0	285.3	321.7	361.2	324.8	239.8	503.9	616.1	667.7	245.9
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°	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8	6777.8
2.5°	6817.3	6783.8	6665.4	6568.4	6477.3	6377.1	6292.1	6267.8	6246.6	6237.5	6234.5
5°	6881.0	6780.8	6547.1	6355.8	6204.1	6064.5	5976.5	5937.0	5897.6	5897.6	5909.7
7.5°	6972.1	6789.9	6428.7	6143.4	5952.2	5821.7	5757.9	5751.8	5760.9	5770.1	5773.1
10°	7072.2	6783.8	6255.7	5900.6	5730.6	5669.9	5672.9	5724.5	5773.1	5809.5	5815.6
12.5°	7169.3	6747.4	6052.4	5672.9	5563.7	5575.8	5660.8	5776.1	5870.2	5921.8	5924.9
15°	7278.6	6689.7	5806.5	5457.4	5421.0	5515.1	5672.9	5849.0	5991.7	6076.6	6085.7
17.5°	7369.7	6592.6	5548.5	5248.0	5293.5	5466.5	5685.0	5912.7	6085.7	6192.0	6210.2
20°	7472.9	6468.2	5281.4	5047.7	5178.2	5411.9	5660.8	5906.6	6085.7	6188.9	6213.2
22.5°	7554.8	6292.1	5026.4	4883.7	5075.0	5345.1	5578.9	5776.1	5921.8	5976.5	6012.9
25°	7588.2	6070.5	4786.6	4750.2	4993.0	5235.8	5393.7	5506.0	5551.5	5545.4	5560.6
27.5°	7570.0	5815.6	4580.2	4644.0	4889.8	5065.9	5144.8	5135.7	5053.7	4977.8	5014.3
30°	7494.1	5512.1	4407.2	4534.7	4756.3	4853.4	4841.3	4722.9	4568.1	4425.4	4434.5
32.5°	7357.5	5184.2	4246.4	4410.2	4568.1	4610.6	4528.6	4373.8	4152.2	3967.1	3939.8
35°	7242.2	4871.6	4103.7	4267.6	4379.9	4358.6	4279.7	4079.4	3879.1	3715.2	3687.9
37.5°	7224.0	4604.5	3967.1	4106.8	4170.5	4140.1	4043.0	3873.0	3800.1	3675.7	3660.5
40°	7321.1	4416.4	3827.5	3936.8	3967.1	3942.8	3836.6	3739.5	3806.2	3775.9	3775.9
42.5°	7585.2	4316.1	3703.0	3766.8	3791.1	3809.3	3733.4	3651.4	3733.4	3593.7	3548.2
45°	8004.1	4319.2	3590.8	3599.8	3672.7	3736.4	3684.8	3563.4	3520.9	3241.7	3187.0
47.5°	8620.2	4422.4	3499.7	3442.0	3572.5	3678.8	3605.9	3429.9	3241.7	3056.5	3023.2
50°	9339.5	4607.6	3417.7	3278.1	3438.9	3605.9	3551.3	3344.9	3150.6	3038.4	3017.1
52.5°	10137.8	4841.3	3317.6	3096.0	3275.1	3572.5	3563.4	3332.8	3065.6	2989.7	2971.6
55°	11124.3	5072.0	3193.2	2883.6	3129.3	3545.2	3530.0	3232.5	3047.4	2992.8	2986.8
57.5°	12271.6	5405.8	3014.0	2668.0	2962.4	3432.9	3399.6	3171.9	2986.8	2947.3	2944.2
60°	14120.2	5924.9	2759.1	2470.7	2792.5	3235.6	3278.1	3068.7	2889.6	2880.5	2877.4
62.5°	16551.4	6653.3	2495.0	2267.3	2595.2	2980.6	3102.1	2929.0	2786.4	2832.0	2838.0
65°	19908.4	7266.5	2221.8	2094.4	2376.6	2734.8	2935.2	2798.5	2671.0	2759.1	2759.1
67.5°	22096.8	7278.6	1972.9	1915.3	2155.1	2528.4	2759.1	2643.7	2522.3	2671.0	2677.2
70°	21641.6	6377.1	1766.5	1727.1	1939.6	2306.8	2564.8	2473.7	2334.1	2467.7	2419.1
71°	20907.0	5876.3	1684.5	1654.2	1854.5	2200.5	2473.7	2397.9	2258.3	2346.3	2318.9
72.5°	19735.4	5102.3	1551.0	1557.1	1727.1	2067.0	2346.3	2267.3	2127.7	2176.3	2167.2
75°	16681.9	4455.8	1326.4	1353.7	1484.3	1839.3	2091.3	2030.6	1888.0	1888.0	1878.8
77.5°	10429.2	3114.2	1101.8	1116.9	1259.6	1575.3	1796.9	1745.3	1608.7	1563.2	1551.0
80°	3891.2	1608.7	862.0	880.2	968.3	1241.4	1487.3	1438.7	1299.1	1247.5	1198.9
82.5°	1472.1	807.4	634.4	619.2	713.3	947.0	1165.6	1107.9	998.6	874.1	837.7
85°	555.5	400.7	388.5	376.4	418.9	561.5	722.4	710.3	594.9	506.9	497.8
87.5°	145.7	130.5	151.7	112.3	118.4	106.3	109.3	45.5	21.2	9.1	6.1
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)