

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: P651155

Luminaire Tested: **GALN-SA9C-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53482.6 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

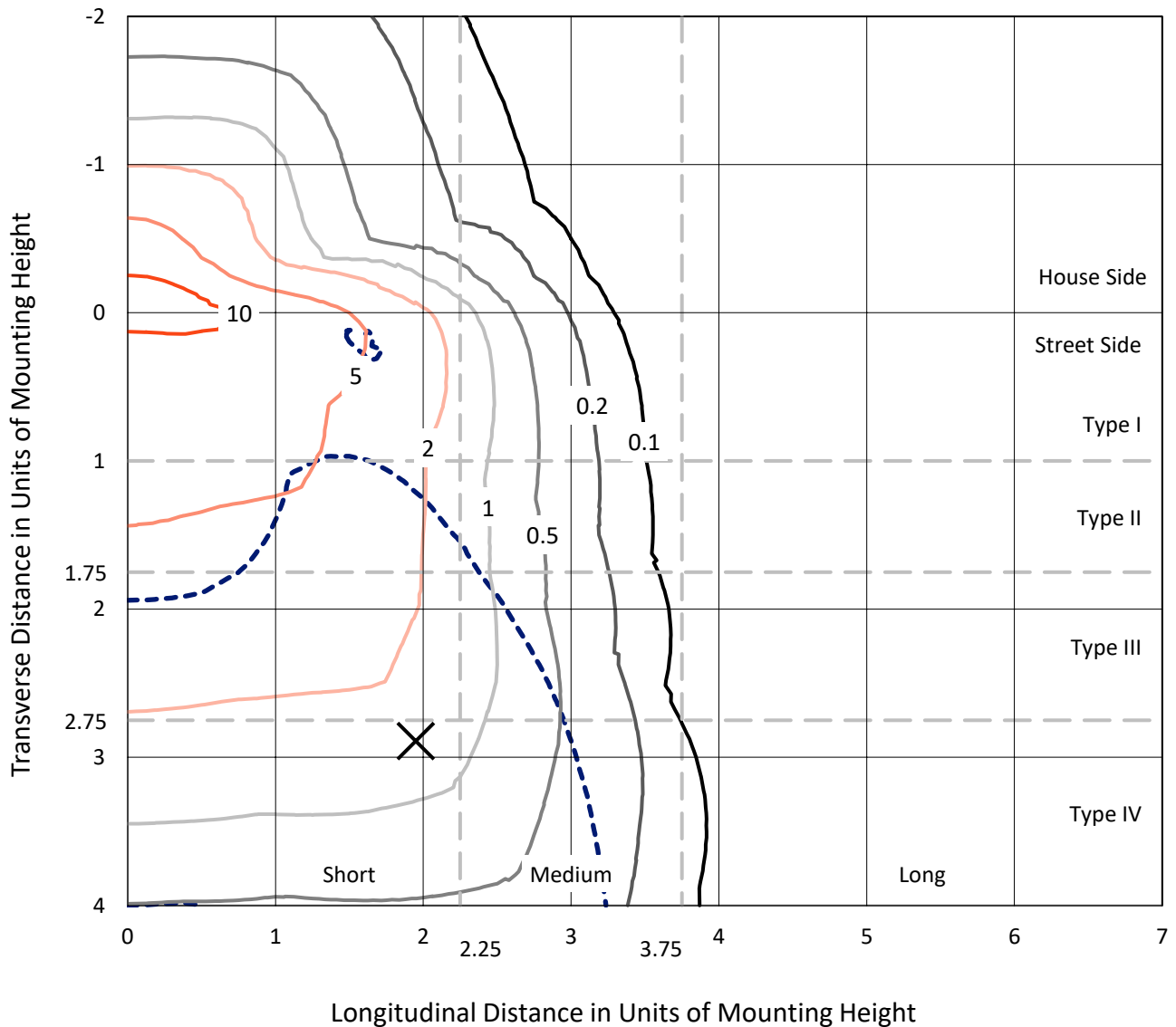
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

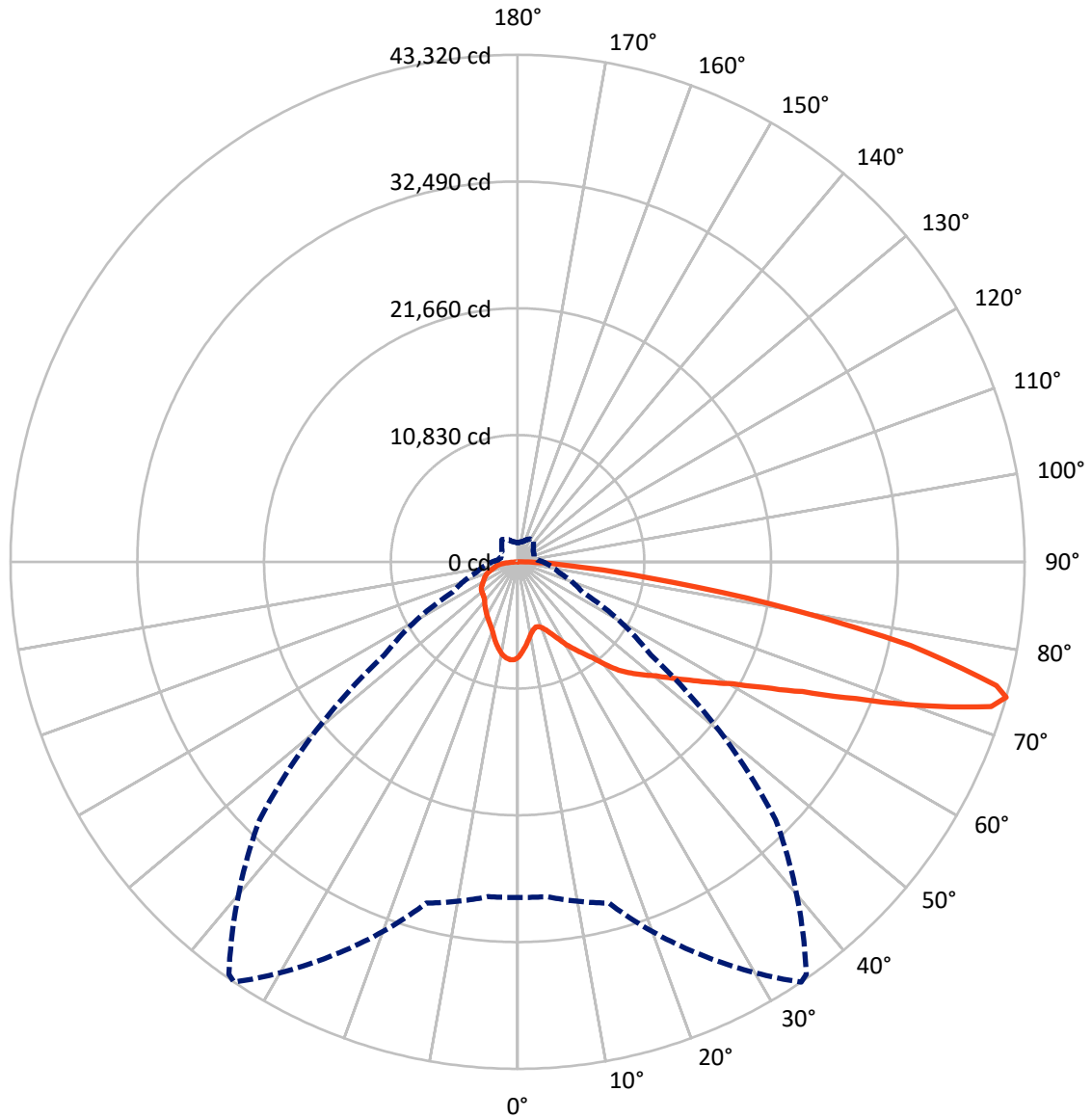
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11381.5	0.0	11381.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	42101.1	0.0	42101.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	53482.6	0.0	53482.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	742.6	1.4
10°-20°	2032.9	3.8
20°-30°	3351.8	6.3
30°-40°	5020.6	9.4
40°-50°	7298.6	13.6
50°-60°	10194.4	19.1
60°-70°	12762.8	23.9
70°-80°	10553.8	19.7
80°-90°	1524.9	2.9
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°	53482.6	100.0
0°-180°	53482.6	100.0

Coefficient of Utilization

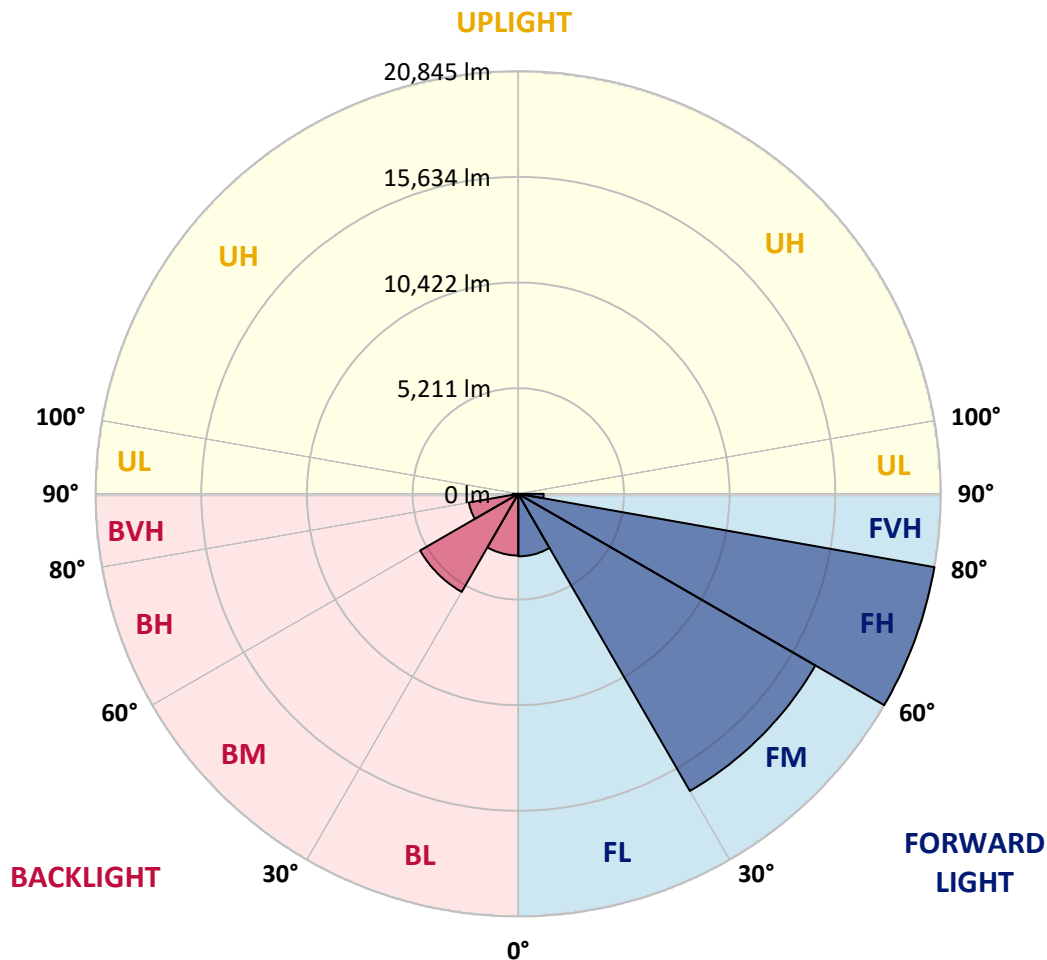


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3083.0	5.8			
FM (30°-60°)	16924.1	31.6			
FH (60°-80°)	20844.7	39.0			G5
FVH (80°-90°)	1249.3	2.3			G5
BL (0°-30°)	3044.4	5.7	B4/5000		
BM (30°-60°)	5589.5	10.5	B4/8500		
BH (60°-80°)	2472.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	275.7	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	8165.7	8165.7	8165.7	8165.7	8165.7	8165.7	8165.7	8165.7	8165.7	8165.7	8165.7
2.5°	7546.5	7585.0	7605.8	7679.8	7697.6	7721.3	7783.5	7866.5	7973.1	8068.0	8150.9
5°	6918.3	6977.6	7013.2	7078.4	7205.8	7217.6	7383.6	7573.1	7789.4	7990.9	8156.9
7.5°	6322.8	6388.0	6417.6	6536.2	6705.0	6731.7	6974.7	7273.9	7635.4	7940.6	8195.4
10°	5875.4	5908.0	5973.2	6062.1	6263.5	6281.3	6598.3	6998.4	7466.5	7916.8	8260.6
12.5°	5632.4	5650.3	5665.1	5759.8	5958.4	5985.1	6316.9	6770.2	7333.2	7934.6	8367.2
15°	5668.0	5674.0	5608.7	5626.5	5786.5	5825.0	6153.9	6619.1	7250.2	7979.1	8527.2
17.5°	5967.2	5946.5	5786.5	5703.6	5816.2	5833.9	6121.3	6559.8	7211.7	8062.0	8693.2
20°	6438.4	6408.8	6133.2	5949.5	6014.7	6029.5	6228.0	6604.3	7250.2	8198.3	8950.9
22.5°	7025.0	7013.2	6595.4	6373.2	6370.2	6370.2	6473.9	6764.2	7365.7	8385.0	9220.6
25°	7845.8	7783.5	7238.3	6950.9	6871.0	6865.0	6853.1	7028.0	7513.9	8583.5	9540.5
27.5°	8687.2	8580.6	8094.6	7653.2	7481.3	7460.6	7383.6	7401.3	7703.5	8808.6	9905.0
30°	9442.7	9374.6	8918.3	8429.4	8225.0	8177.5	7964.3	7866.5	8020.5	9214.6	10485.7
32.5°	10020.5	9979.1	9623.5	9179.0	8876.8	8867.9	8556.8	8476.9	8515.4	9706.4	11149.4
35°	10488.6	10503.4	10322.7	9937.5	9590.8	9540.5	9333.1	9232.3	9119.8	10417.6	11984.9
37.5°	11128.6	11161.2	11149.4	10817.5	10393.8	10405.7	10358.3	10192.3	9893.1	11211.5	12912.3
40°	11833.8	11857.5	11854.6	11727.2	11504.9	11516.7	11499.0	11309.3	10861.9	12221.9	13943.4
42.5°	12808.6	12696.0	12402.6	12530.1	12660.4	12716.8	12838.2	12657.5	12044.1	13300.4	14912.2
45°	13899.0	13685.6	13021.9	13081.2	13564.2	13670.8	14340.4	14091.5	13327.1	14538.9	16052.9
47.5°	14586.3	14376.0	13815.9	13804.1	14444.1	14547.8	15732.9	15641.1	14494.5	15875.1	17445.5
50°	15199.6	15170.0	14538.9	14690.0	15315.2	15469.3	17249.9	17164.1	15658.9	17451.4	18962.5
52.5°	16109.3	15869.2	15365.6	15676.7	16503.3	16704.8	18755.1	18503.3	16728.5	18844.0	20435.0
55°	16518.1	16461.8	16432.2	16701.8	17836.6	17981.8	20218.7	19641.0	17641.1	20023.2	21555.0
57.5°	17611.5	17507.7	17801.0	17984.8	19406.9	19629.2	21747.6	20829.1	18441.0	20959.5	22100.2
60°	19027.7	18971.4	19241.0	19572.8	21161.0	21498.7	23489.8	21842.5	19084.0	21430.6	21801.0
62.5°	21143.2	21137.3	21086.9	21798.0	23646.8	23957.9	25489.8	22829.1	19184.7	21078.0	20254.3
65°	24177.2	24070.5	23632.0	24408.3	26740.1	27104.5	27572.7	23380.1	18577.4	19267.6	17054.4
67.5°	27350.4	27344.5	26989.0	27996.4	31181.5	31557.8	30177.0	23258.7	16891.4	15608.5	12112.3
70°	29981.5	29854.1	30307.5	32991.8	36855.4	37290.9	32455.5	21827.7	13454.5	10307.9	7196.9
72.5°	30612.6	30618.5	31560.7	36843.5	42304.2	42372.3	33276.3	17691.4	9004.3	5685.7	3599.9
74°	28668.9	28719.3	30180.0	37036.1	43320.4	43012.3	31178.5	13904.8	6088.8	3712.5	2595.5
75°	26168.2	25851.2	27963.8	35753.2	42265.6	41933.8	28722.3	11158.2	4645.9	2965.9	2272.6
77.5°	13990.8	14313.7	17572.9	26680.8	34336.9	33954.7	19475.1	5350.9	2509.5	2065.2	1635.5
80°	4980.7	5493.2	7721.3	13961.1	22014.3	22132.8	9294.6	2453.3	1765.8	1523.0	1155.5
82.5°	2032.5	2088.9	3315.5	6195.4	11179.0	11285.6	3795.4	1457.7	1262.2	1048.9	690.4
85°	794.1	817.8	1466.6	2785.1	4770.2	5081.3	1312.5	770.4	776.2	601.5	352.5
87.5°	266.7	302.3	601.5	927.4	1620.7	1588.1	382.2	228.2	278.5	260.7	109.7
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°	8165.7	8165.7	8165.7	8165.7	8165.7	8165.7	8165.7	8165.7	8165.7	8165.7	8165.7
2.5°	8192.4	8248.7	8287.2	8328.7	8367.2	8379.1	8370.1	8396.8	8399.8	8402.8	8405.7
5°	8239.8	8316.8	8390.9	8432.4	8450.2	8435.3	8385.0	8358.3	8334.6	8316.8	8322.8
7.5°	8305.0	8414.6	8482.7	8500.6	8453.1	8385.0	8260.6	8162.7	8100.5	8059.1	8056.1
10°	8405.7	8512.3	8568.7	8518.3	8388.0	8222.0	8026.5	7842.7	7703.5	7662.0	7659.1
12.5°	8533.1	8654.6	8651.6	8503.5	8275.4	7979.1	7662.0	7448.7	7259.1	7164.3	7202.8
15°	8699.1	8790.9	8704.9	8438.3	8076.9	7670.9	7279.9	6989.5	6776.1	6675.4	6681.3
17.5°	8891.6	8971.6	8743.5	8322.8	7798.3	7276.8	6823.5	6548.0	6379.1	6305.1	6299.1
20°	9131.7	9155.3	8743.5	8121.3	7439.8	6817.7	6385.0	6192.5	6097.7	6059.2	6070.9
22.5°	9389.4	9342.0	8696.1	7836.9	6968.7	6337.6	6047.3	5961.3	5913.9	5908.0	5913.9
25°	9679.7	9546.4	8598.3	7451.7	6476.9	5922.8	5754.0	5768.8	5777.7	5777.7	5798.4
27.5°	10035.3	9768.6	8435.3	6965.8	5902.1	5537.6	5490.2	5593.9	5641.3	5650.3	5665.1
30°	10503.4	10011.6	8165.7	6358.4	5413.2	5191.0	5273.9	5413.2	5466.5	5499.1	5493.2
32.5°	11060.5	10278.3	7801.3	5751.0	5019.2	4948.0	5048.8	5191.0	5250.3	5268.0	5244.3
35°	11715.3	10580.5	7321.3	5182.1	4675.5	4716.9	4835.4	4879.9	4933.2	4933.2	4945.1
37.5°	12420.5	10823.4	6734.6	4660.7	4408.8	4559.9	4645.9	4604.3	4580.6	4551.0	4565.8
40°	13137.4	11004.1	5973.2	4145.1	4142.1	4396.9	4420.6	4302.1	4207.3	4177.7	4162.9
42.5°	13762.6	11116.8	5285.8	3745.1	3890.3	4237.0	4254.7	4065.1	3914.0	3825.1	3795.4
45°	14500.4	11247.1	4613.2	3413.3	3656.2	4109.5	4154.0	3899.1	3676.9	3490.3	3442.9
47.5°	15510.7	11543.4	4082.9	3155.5	3487.3	4029.6	4091.7	3762.9	3469.5	3226.6	3188.1
50°	16651.5	11949.3	3671.0	2980.7	3356.9	3958.4	4035.5	3623.6	3277.0	3007.3	2977.7
52.5°	17697.3	12168.6	3315.5	2823.7	3229.5	3828.1	3961.4	3522.9	3087.3	2788.1	2761.4
55°	18269.2	11813.0	2965.9	2669.6	3054.8	3659.2	3857.7	3383.6	2903.6	2672.5	2634.0
57.5°	18346.2	11078.2	2648.8	2503.7	2871.0	3451.8	3665.1	3214.7	2785.1	2592.6	2559.9
60°	17750.7	9982.0	2402.9	2367.3	2684.4	3217.7	3448.8	3066.6	2663.6	2503.7	2471.0
62.5°	16269.2	8790.9	2231.1	2242.9	2494.7	2971.8	3288.8	2924.4	2548.1	2405.8	2376.2
65°	13721.2	7256.1	2065.2	2115.5	2325.9	2779.2	3143.7	2805.8	2432.5	2331.8	2305.1
67.5°	9531.6	5238.4	1928.8	1982.2	2165.9	2583.6	2974.7	2678.4	2302.2	2248.8	2207.4
70°	5276.9	3223.6	1768.9	1831.0	2000.0	2364.4	2785.1	2485.8	2112.5	2088.9	2029.6
72.5°	2773.3	2053.3	1588.1	1656.3	1774.8	2082.9	2494.7	2275.5	1925.9	1825.1	1748.1
74°	2165.9	1682.9	1466.6	1537.8	1617.7	1917.0	2322.9	2124.4	1792.5	1674.0	1614.8
75°	1887.4	1499.3	1362.9	1454.8	1525.9	1804.4	2189.5	2017.7	1718.5	1605.9	1552.6
77.5°	1333.3	1122.9	1114.1	1223.7	1262.2	1582.2	1973.3	1837.0	1531.8	1413.3	1362.9
80°	936.3	841.4	883.0	951.1	1004.4	1398.5	1831.0	1588.1	1256.3	1117.0	1099.3
82.5°	610.3	551.1	631.1	693.3	711.1	1031.1	1478.5	1205.9	915.5	743.7	690.4
85°	281.5	275.5	361.5	352.5	349.6	503.7	877.0	705.2	527.4	394.1	370.4
87.5°	71.1	68.1	88.9	74.1	88.9	77.0	80.0	20.8	2.9	0.0	0.0
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)