

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: P647197

Luminaire Tested: **GALN-SA9C-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P647197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49940.5 lumens
Efficiency: N/A
Efficacy: 103.8 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

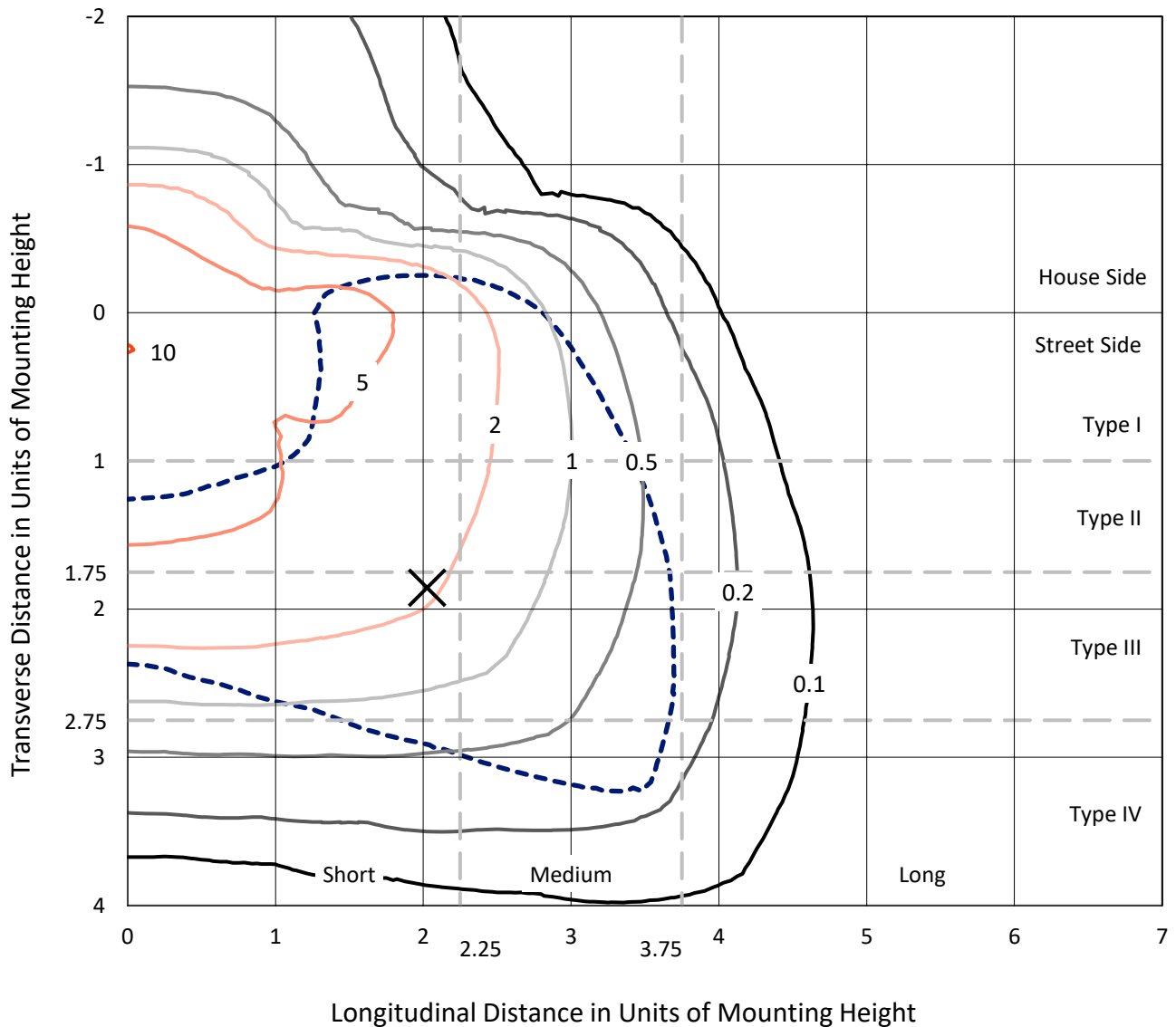
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

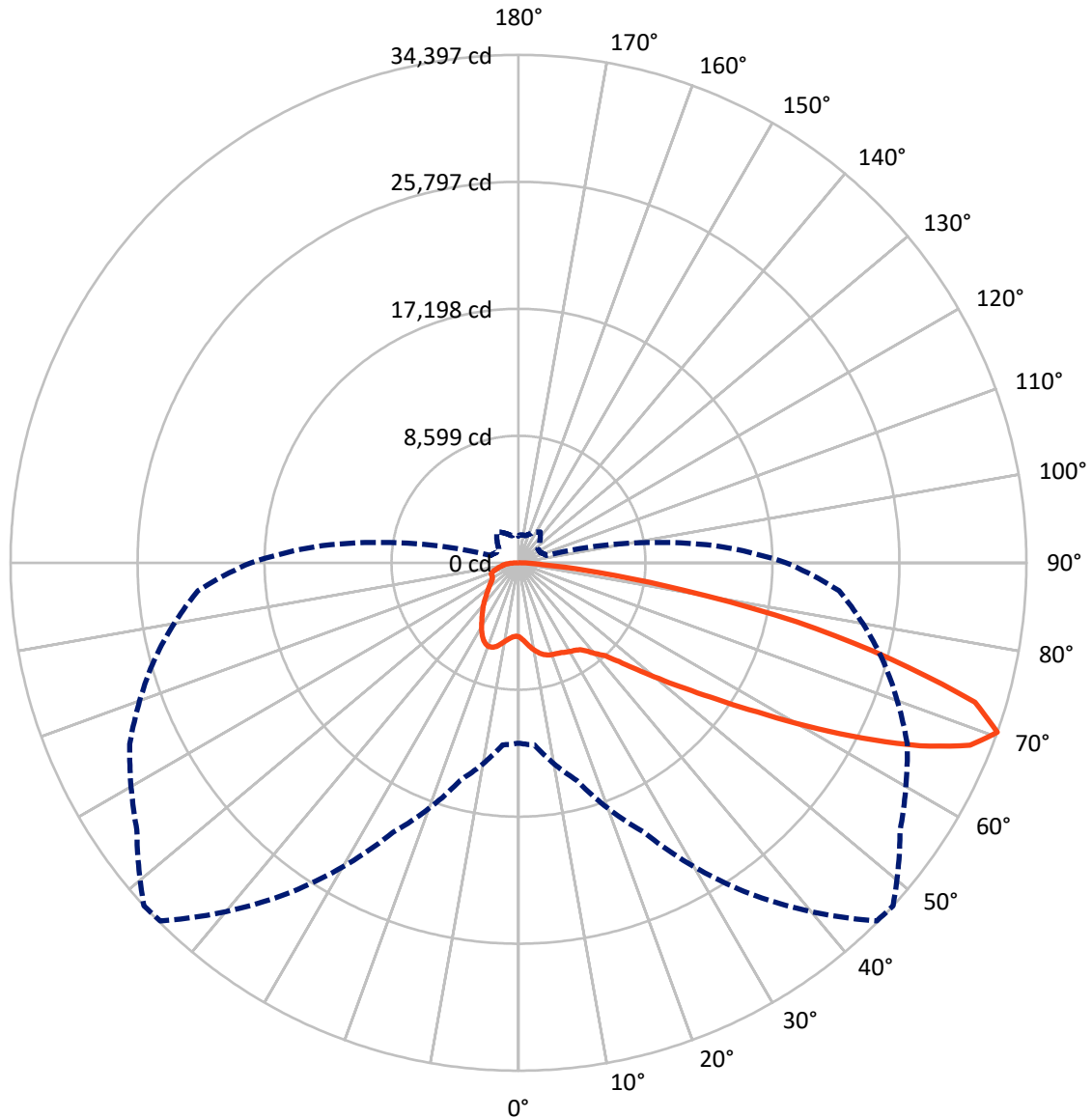
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GALN-SA9C-835-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11307.5	0.0	11307.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	38633.0	0.0	38633.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	49940.5	0.0	49940.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.8	1.0
10°-20°	1727.6	3.5
20°-30°	2873.0	5.8
30°-40°	4072.1	8.2
40°-50°	6011.3	12.0
50°-60°	10411.8	20.8
60°-70°	14707.0	29.4
70°-80°	8454.4	16.9
80°-90°	1166.5	2.3
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°	49940.5	100.0
0°-180°	49940.5	100.0

Coefficient of Utilization



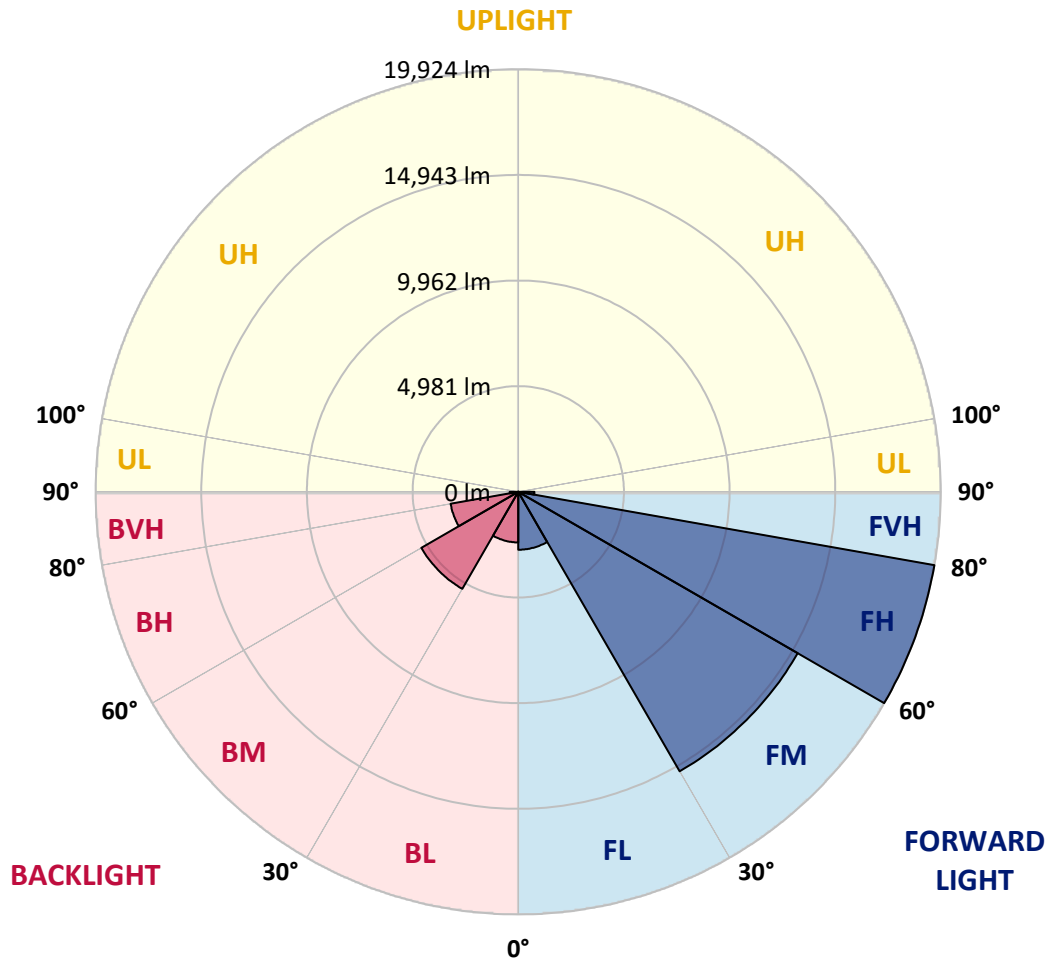
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2730.9	5.5			
FM (30°-60°)	15215.9	30.5			
FH (60°-80°)	19924.2	39.9			G5
FVH (80°-90°)	762.0	1.5			G5
BL (0°-30°)	2386.5	4.8	B3/2500		
BM (30°-60°)	5279.3	10.6	B4/8500		
BH (60°-80°)	3237.2	6.5	B4/5000		G4/5000
BVH (80°-90°)	404.5	0.8			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°	35°	45°	47.5°	55°	65°	75°	85°
0°	5013.4	5013.4	5013.4	5013.4	5013.4	5013.4	5013.4	5013.4	5013.4	5013.4	5013.4
2.5°	5336.8	5318.1	5315.4	5275.3	5253.9	5213.8	5197.8	5160.4	5114.9	5069.5	5026.8
5°	5756.4	5756.4	5737.7	5681.5	5593.4	5502.5	5462.4	5390.3	5262.0	5157.7	5069.5
7.5°	6186.6	6192.0	6154.5	6071.7	5946.1	5799.1	5761.7	5654.8	5473.1	5320.7	5189.8
10°	6558.1	6558.1	6507.3	6395.1	6237.4	6077.0	6039.6	5919.4	5716.3	5526.5	5355.5
12.5°	6841.4	6841.4	6774.5	6627.5	6456.5	6312.2	6269.5	6154.5	5964.8	5753.7	5537.2
15°	7025.8	7012.4	6937.5	6771.9	6606.2	6480.6	6451.2	6355.0	6181.2	5967.5	5724.3
17.5°	7033.8	7028.4	6956.3	6817.3	6673.0	6587.5	6568.7	6504.6	6368.4	6165.3	5908.7
20°	6878.7	6889.5	6841.4	6742.5	6673.0	6635.6	6627.5	6606.2	6509.9	6320.2	6063.7
22.5°	6713.1	6731.8	6686.4	6632.9	6627.5	6665.0	6670.3	6675.6	6614.2	6429.8	6194.6
25°	6673.0	6686.4	6640.9	6592.8	6622.2	6721.1	6742.5	6763.9	6715.7	6560.8	6349.7
27.5°	6876.1	6865.4	6777.2	6673.0	6691.7	6825.3	6854.7	6878.7	6854.7	6721.1	6542.0
30°	7450.6	7415.9	7239.5	6934.9	6838.6	6932.2	6961.6	7028.4	7028.4	6929.6	6750.5
32.5°	8412.7	8345.9	8022.5	7423.9	7089.9	7033.8	7063.1	7172.7	7228.8	7151.4	6956.3
35°	9580.6	9511.1	9048.7	8244.4	7549.5	7236.9	7228.8	7351.7	7501.5	7327.7	7073.9
37.5°	10753.7	10681.6	10125.8	9222.5	8220.3	7664.5	7616.3	7659.1	7723.3	7405.2	7236.9
40°	11927.0	11841.4	11355.1	10315.5	9040.8	8231.0	8105.4	7913.0	7886.3	7659.1	7552.2
42.5°	13089.4	13011.9	12766.0	11542.1	10024.2	8784.2	8591.8	8260.4	8362.0	8225.6	8132.2
45°	14262.6	14268.0	14006.1	12918.4	11210.8	9805.0	9545.8	9027.4	9267.9	9217.1	9270.6
47.5°	15302.2	15288.8	15195.3	14254.6	12683.2	11119.9	10785.8	10184.6	10596.1	10783.2	11192.0
50°	16309.7	16301.7	16307.0	15769.9	14393.6	12683.2	12314.4	11683.8	12611.1	13260.5	13992.7
52.5°	17752.8	17798.2	17474.8	17333.2	16472.7	14529.8	14123.7	13471.6	14992.2	16015.7	17445.5
55°	19201.2	19163.8	18909.9	19056.9	18648.0	16715.9	16290.9	15772.5	17643.2	18763.0	20911.6
57.5°	20053.7	20067.0	20326.3	21045.2	21333.8	19441.7	19056.9	18656.1	20623.0	21416.6	23995.5
60°	20820.7	20882.1	21627.8	22985.4	23768.4	22790.2	22448.2	22058.0	23356.8	23672.1	26673.3
62.5°	21061.2	21250.9	22552.4	24583.5	26141.5	26569.0	26144.1	25283.6	25959.7	25836.8	28487.8
65°	19861.3	20120.5	22453.5	25182.1	28260.7	30155.4	29885.5	28287.4	28177.8	27437.6	28784.4
67.5°	16702.5	16961.7	19957.5	23926.1	29137.2	33260.7	32990.8	30478.7	29524.7	27587.2	26539.6
70°	12220.9	12383.9	15248.8	20144.6	27376.1	34303.0	34396.5	31547.7	29043.7	25553.5	21790.7
72.5°	7041.8	7402.6	9409.5	14171.8	22365.4	31668.0	32317.4	29324.3	26002.5	21317.7	15235.4
75°	3027.9	3035.8	4350.7	7816.8	15147.2	25454.6	26082.7	24308.2	20419.9	14741.0	8134.8
77.5°	1440.4	1467.2	1913.4	3490.1	8337.9	17587.1	19281.4	17172.8	13060.0	7081.8	3073.3
80°	935.4	954.1	1170.5	1731.7	4088.7	10197.9	11379.1	9906.6	5761.7	2530.7	1325.5
82.5°	566.6	571.9	783.0	1058.3	2250.2	4617.9	5443.7	4299.9	2458.6	1515.3	780.3
85°	344.8	347.4	475.7	654.7	1365.6	1595.4	1638.2	1624.8	1443.1	991.4	416.9
87.5°	165.7	171.0	245.9	310.0	537.1	494.4	467.7	542.5	681.4	534.5	179.1
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°	5013.4	5013.4	5013.4	5013.4	5013.4	5013.4	5013.4	5013.4	5013.4	5013.4	5013.4
2.5°	5008.1	5000.1	4981.4	4973.3	4968.0	4970.6	4968.0	4968.0	4970.6	4970.6	4970.6
5°	5032.1	5018.8	4989.4	4989.4	5005.4	5042.8	5077.6	5104.3	5133.7	5131.0	5131.0
7.5°	5136.3	5112.3	5077.6	5088.2	5128.3	5187.1	5248.6	5307.4	5366.2	5371.5	5368.9
10°	5288.7	5264.7	5227.2	5240.6	5304.7	5392.9	5470.4	5555.9	5620.1	5638.8	5633.5
12.5°	5462.4	5414.3	5382.2	5419.6	5521.2	5638.8	5713.6	5777.8	5823.2	5849.9	5839.2
15°	5638.8	5593.4	5555.9	5633.5	5756.4	5865.9	5903.4	5914.0	5922.1	5948.8	5943.4
17.5°	5809.8	5748.3	5735.0	5836.6	5954.1	6002.2	5980.9	5935.4	5900.7	5922.1	5919.4
20°	5962.2	5914.0	5908.7	6010.2	6055.6	6010.2	5919.4	5839.2	5777.8	5783.1	5780.4
22.5°	6106.5	6069.0	6074.4	6117.1	6045.0	5890.0	5740.3	5630.8	5563.9	5577.3	5585.3
25°	6266.8	6229.4	6242.7	6173.3	5935.4	5665.5	5449.1	5355.5	5328.8	5355.5	5374.2
27.5°	6475.3	6451.2	6443.2	6175.9	5740.3	5334.1	5088.2	5053.5	5077.6	5136.3	5165.8
30°	6699.7	6699.7	6657.0	6130.5	5473.1	4936.0	4722.1	4727.5	4810.4	4893.2	4922.6
32.5°	6916.2	6961.6	6828.0	6007.6	5128.3	4548.4	4385.4	4390.8	4462.9	4564.5	4591.2
35°	7095.2	7226.2	6975.0	5783.1	4722.1	4222.4	4099.5	4027.3	4029.9	4107.5	4128.8
37.5°	7341.1	7584.3	7060.5	5449.1	4289.2	3944.4	3805.5	3679.9	3597.0	3565.0	3565.0
40°	7768.7	8126.8	7081.8	4954.7	3880.3	3679.9	3482.2	3332.4	3172.2	3027.9	3001.1
42.5°	8492.9	8944.5	7039.1	4385.4	3511.5	3388.6	3196.2	3011.8	2790.0	2586.9	2570.8
45°	9775.7	10008.1	6924.2	3794.8	3182.8	3108.0	2920.9	2720.5	2485.3	2303.6	2290.3
47.5°	11830.7	11502.0	6771.9	3271.0	2883.6	2862.2	2717.9	2485.3	2250.2	2124.6	2111.2
50°	14831.8	13853.7	6750.5	2891.5	2643.0	2653.7	2536.1	2322.3	2116.5	2012.3	1996.3
52.5°	18444.9	16694.5	6892.1	2624.3	2431.9	2472.0	2413.2	2215.4	2033.7	1945.5	1929.5
55°	21951.1	19249.4	6977.6	2415.9	2234.1	2309.0	2317.0	2151.3	1985.6	1897.4	1886.7
57.5°	24797.2	21173.4	6598.2	2226.1	2063.1	2178.0	2236.8	2113.9	1961.6	1894.7	1884.1
60°	26777.5	22082.1	5518.5	2057.7	1937.5	2073.8	2207.4	2116.5	2020.4	2028.4	2033.7
62.5°	27408.1	21678.5	4139.6	1932.1	1852.0	2039.0	2255.5	2226.1	2127.3	2188.7	2199.4
65°	26363.2	20011.0	3001.1	1833.2	1777.2	2063.1	2399.8	2306.2	2089.8	2135.2	2135.2
67.5°	22865.1	17239.7	2335.7	1742.4	1691.6	2108.5	2544.1	2298.3	2001.7	2055.1	2007.0
70°	18137.6	13335.3	1945.5	1640.9	1600.8	2041.8	2557.5	2215.4	1897.4	1908.1	1817.3
72.5°	12036.5	8768.2	1673.0	1544.6	1461.8	1836.0	2447.9	2108.5	1795.9	1734.4	1643.5
75°	5898.0	4372.0	1459.1	1424.4	1280.0	1598.1	2298.3	2007.0	1686.3	1590.1	1539.3
77.5°	2284.9	1860.0	1245.4	1272.1	1114.4	1408.4	2100.5	1862.7	1542.0	1411.0	1371.0
80°	1109.0	1055.6	1020.9	1061.0	916.7	1199.9	1918.8	1737.1	1408.4	1264.1	1205.3
82.5°	689.5	652.1	783.0	825.8	705.5	1095.7	1819.9	1630.1	1240.0	1047.6	999.5
85°	350.1	374.1	523.8	563.8	505.1	871.2	1499.2	1224.0	895.3	742.9	748.2
87.5°	133.7	179.1	275.2	296.6	269.9	459.6	825.8	713.5	574.6	390.2	360.8
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)