

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: P522849

Luminaire Tested: **GALN-SA7C-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522849
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-SA7C-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 44628 lumens
Efficiency: N/A
Efficacy: 118.4 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

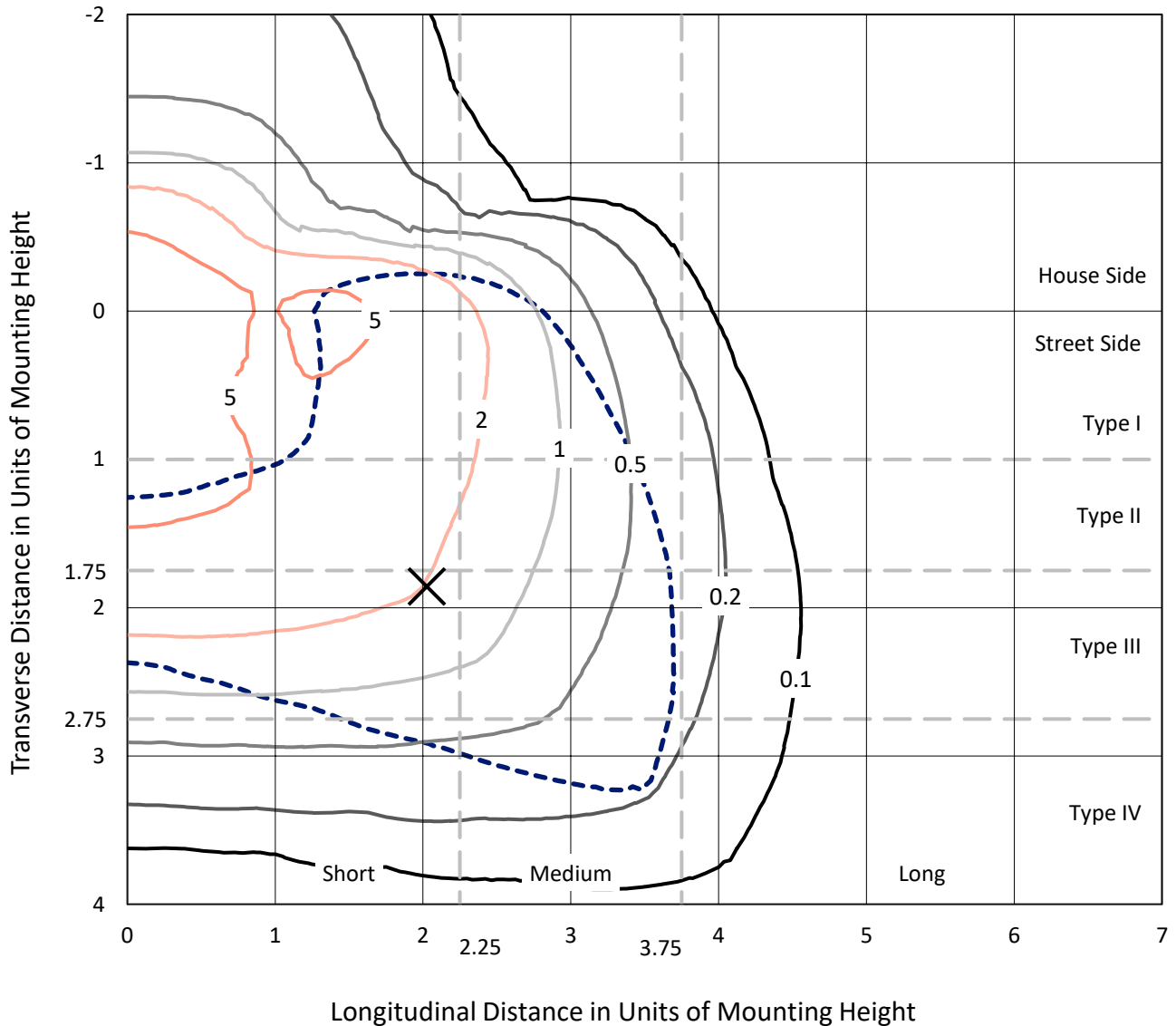
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

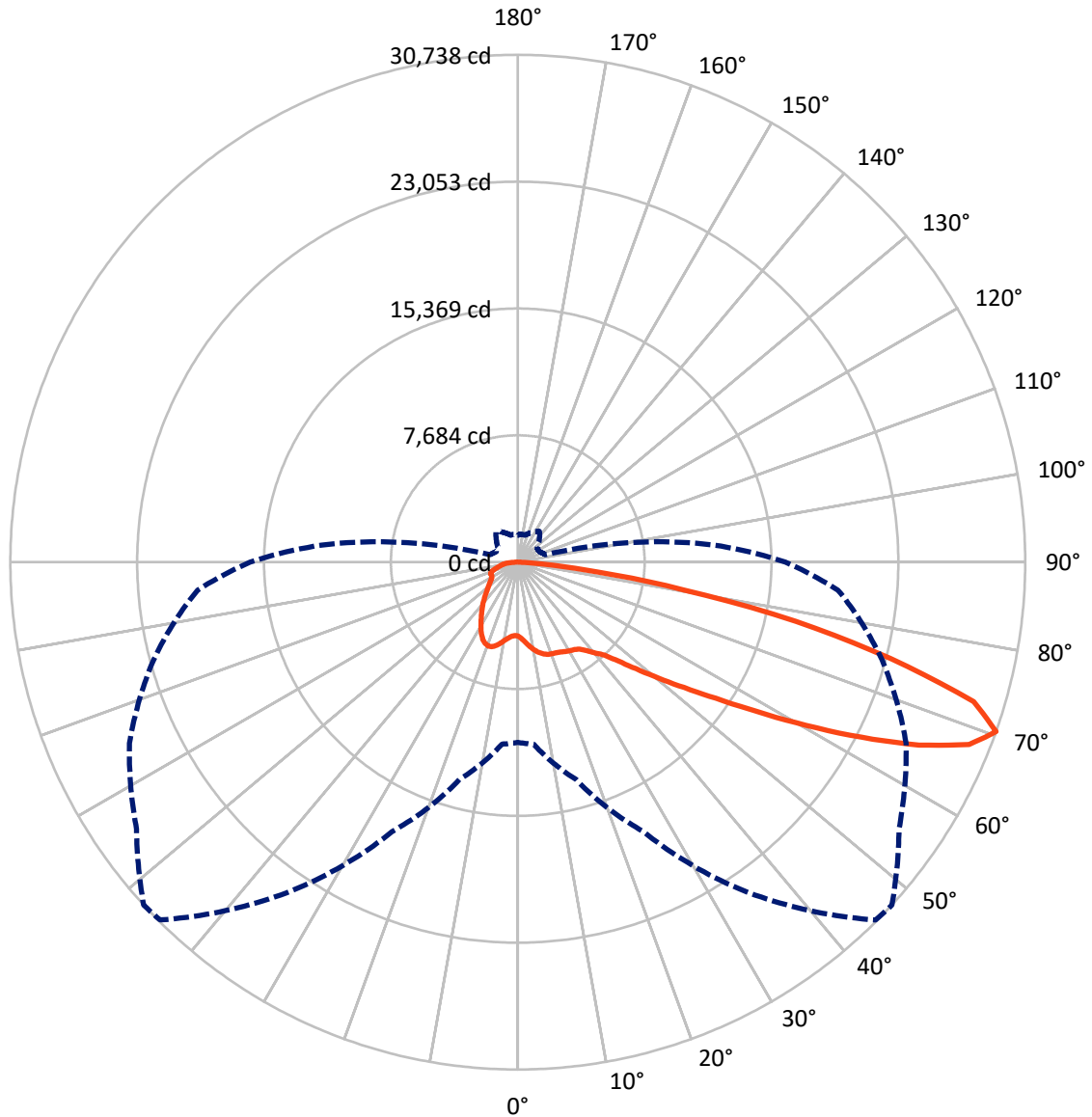
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

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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	10104.6	0.0	10104.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	34523.4	0.0	34523.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	44628.0	0.0	44628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.8	1.0
10°-20°	1543.9	3.5
20°-30°	2567.4	5.8
30°-40°	3638.9	8.2
40°-50°	5371.8	12.0
50°-60°	9304.2	20.8
60°-70°	13142.5	29.4
70°-80°	7555.0	16.9
80°-90°	1042.4	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°	44628.0	100.0
0°-180°	44628.0	100.0

Coefficient of Utilization



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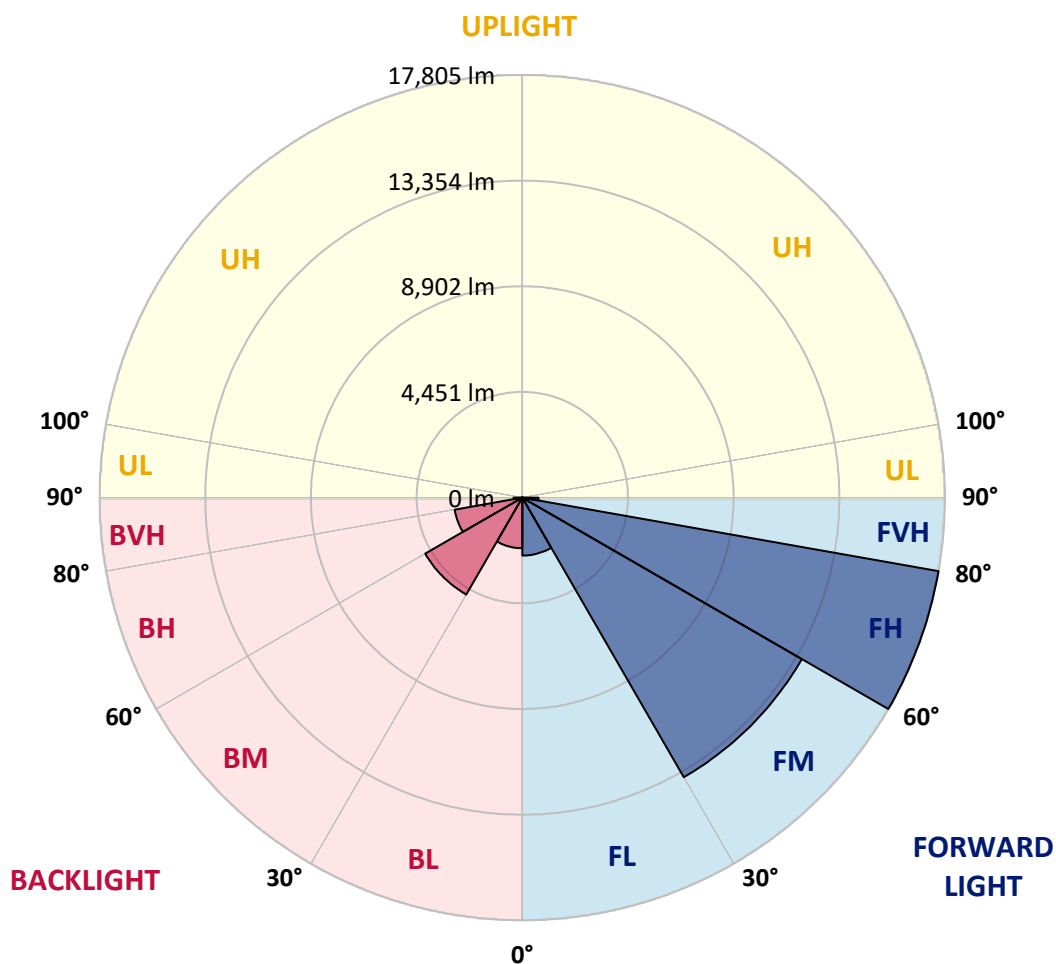
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2440.4	5.5			
FM	(30°-60°)	13597.3	30.5			
FH	(60°-80°)	17804.7	39.9			G5
FVH	(80°-90°)	680.9	1.5			G4/750
BL	(0°-30°)	2132.7	4.8	B3/2500		
BM	(30°-60°)	4717.7	10.6	B3/5000		
BH	(60°-80°)	2892.8	6.5	B4/5000		G4/5000
BVH	(80°-90°)	361.5	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°	4480.1	4480.1	4480.1	4480.1	4480.1	4480.1	4480.1	4480.1	4480.1	4480.1	4480.1
2.5°	4769.1	4752.4	4750.0	4714.2	4695.0	4659.2	4644.9	4611.5	4570.9	4530.3	4492.1
5°	5144.0	5144.0	5127.3	5077.1	4998.3	4917.1	4881.3	4816.8	4702.2	4609.1	4530.3
7.5°	5528.5	5533.3	5499.8	5425.8	5313.6	5182.2	5148.8	5053.3	4890.9	4754.7	4637.7
10°	5860.4	5860.4	5815.1	5714.8	5573.9	5430.6	5397.2	5289.7	5108.2	4938.6	4785.8
12.5°	6113.6	6113.6	6053.9	5922.5	5769.7	5640.7	5602.5	5499.8	5330.3	5141.6	4948.2
15°	6278.4	6266.4	6199.6	6051.5	5903.4	5791.2	5764.9	5679.0	5523.7	5332.7	5115.4
17.5°	6285.5	6280.8	6216.3	6092.1	5963.1	5886.7	5870.0	5812.7	5690.9	5509.4	5280.1
20°	6147.0	6156.6	6113.6	6025.2	5963.1	5929.7	5922.5	5903.4	5817.5	5647.9	5418.6
22.5°	5999.0	6015.7	5975.1	5927.3	5922.5	5956.0	5960.7	5965.5	5910.6	5745.8	5535.7
25°	5963.1	5975.1	5934.5	5891.5	5917.8	6006.1	6025.2	6044.3	6001.3	5862.8	5674.2
27.5°	6144.6	6135.1	6056.3	5963.1	5979.9	6099.3	6125.5	6147.0	6125.5	6006.1	5846.1
30°	6658.1	6627.0	6469.4	6197.2	6111.2	6194.8	6221.1	6280.8	6280.8	6192.4	6032.4
32.5°	7517.8	7458.1	7169.1	6634.2	6335.7	6285.5	6311.8	6409.7	6459.9	6390.6	6216.3
35°	8561.4	8499.3	8086.2	7367.4	6746.4	6467.0	6459.9	6569.7	6703.5	6548.2	6321.4
37.5°	9609.8	9545.3	9048.6	8241.4	7345.9	6849.1	6806.1	6844.4	6901.7	6617.5	6467.0
40°	10658.2	10581.8	10147.1	9218.1	8079.0	7355.4	7243.2	7071.2	7047.3	6844.4	6748.8
42.5°	11697.0	11627.8	11408.1	10314.3	8957.8	7849.8	7677.8	7381.7	7472.4	7350.6	7267.1
45°	12745.4	12750.2	12516.1	11544.2	10018.2	8762.0	8530.4	8067.1	8282.0	8236.6	8284.4
47.5°	13674.4	13662.4	13578.9	12738.2	11334.0	9937.0	9638.5	9101.1	9468.9	9636.1	10001.4
50°	14574.7	14567.5	14572.3	14092.3	12862.4	11334.0	11004.5	10440.9	11269.5	11849.9	12504.2
52.5°	15864.3	15904.9	15615.9	15489.4	14720.4	12984.2	12621.2	12038.5	13397.4	14312.0	15589.7
55°	17158.6	17125.2	16898.3	17029.7	16664.3	14937.7	14558.0	14094.7	15766.4	16767.0	18687.0
57.5°	17920.5	17932.4	18164.0	18806.4	19064.4	17373.6	17029.7	16671.5	18429.1	19138.4	21442.9
60°	18605.8	18660.8	19327.1	20540.2	21239.9	20365.9	20060.2	19711.5	20872.2	21154.0	23835.8
62.5°	18820.8	18990.3	20153.3	21968.3	23360.6	23742.7	23363.0	22594.0	23198.2	23088.3	25457.4
65°	17748.5	17980.2	20065.0	22503.3	25254.4	26947.6	26706.4	25278.3	25180.3	24518.8	25722.4
67.5°	14925.8	15157.4	17834.5	21380.8	26037.7	29722.5	29481.3	27236.5	26384.0	24652.6	23716.4
70°	10920.9	11066.6	13626.6	18001.7	24463.9	30653.9	30737.5	28191.8	25954.1	22835.2	19472.7
72.5°	6292.7	6615.1	8408.6	12664.2	19986.2	28299.2	28879.5	26204.8	23236.4	19050.0	13614.7
75°	2705.7	2712.9	3887.9	6985.3	13535.9	22746.8	23308.1	21722.3	18247.6	13172.9	7269.4
77.5°	1287.2	1311.1	1709.9	3118.9	7450.9	15716.2	17230.3	15346.1	11670.7	6328.5	2746.3
80°	835.8	852.6	1046.0	1547.5	3653.8	9113.1	10168.6	8852.8	5148.8	2261.6	1184.5
82.5°	506.3	511.1	699.7	945.7	2010.8	4126.7	4864.6	3842.5	2197.1	1354.1	697.3
85°	308.1	310.5	425.1	585.1	1220.3	1425.7	1463.9	1452.0	1289.6	886.0	372.5
87.5°	148.1	152.8	219.7	277.0	480.0	441.8	417.9	484.8	609.0	477.6	160.0
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°	4480.1	4480.1	4480.1	4480.1	4480.1	4480.1	4480.1	4480.1	4480.1	4480.1	4480.1
2.5°	4475.3	4468.2	4451.5	4444.3	4439.5	4441.9	4439.5	4439.5	4441.9	4441.9	4441.9
5°	4496.8	4484.9	4458.6	4458.6	4472.9	4506.4	4537.4	4561.3	4587.6	4585.2	4585.2
7.5°	4590.0	4568.5	4537.4	4547.0	4582.8	4635.3	4690.3	4742.8	4795.3	4800.1	4797.7
10°	4726.1	4704.6	4671.2	4683.1	4740.4	4819.2	4888.5	4964.9	5022.2	5038.9	5034.2
12.5°	4881.3	4838.3	4809.7	4843.1	4933.9	5038.9	5105.8	5163.1	5203.7	5227.6	5218.0
15°	5038.9	4998.3	4964.9	5034.2	5144.0	5241.9	5275.4	5284.9	5292.1	5316.0	5311.2
17.5°	5191.8	5136.8	5124.9	5215.7	5320.7	5363.7	5344.6	5304.0	5273.0	5292.1	5289.7
20°	5327.9	5284.9	5280.1	5370.9	5411.5	5370.9	5289.7	5218.0	5163.1	5167.9	5165.5
22.5°	5456.9	5423.4	5428.2	5466.4	5401.9	5263.4	5129.7	5031.8	4972.1	4984.0	4991.2
25°	5600.1	5566.7	5578.6	5516.6	5304.0	5062.8	4869.4	4785.8	4761.9	4785.8	4802.5
27.5°	5786.4	5764.9	5757.8	5518.9	5129.7	4766.7	4547.0	4515.9	4537.4	4590.0	4616.2
30°	5987.0	5987.0	5948.8	5478.3	4890.9	4410.9	4219.8	4224.6	4298.6	4372.6	4398.9
32.5°	6180.5	6221.1	6101.6	5368.5	4582.8	4064.6	3918.9	3923.7	3988.2	4078.9	4102.8
35°	6340.5	6457.5	6233.0	5167.9	4219.8	3773.2	3663.4	3598.9	3601.3	3670.5	3689.6
37.5°	6560.2	6777.5	6309.4	4869.4	3832.9	3524.9	3400.7	3288.4	3214.4	3185.8	3185.8
40°	6942.3	7262.3	6328.5	4427.6	3467.6	3288.4	3111.7	2978.0	2834.7	2705.7	2681.9
42.5°	7589.4	7993.0	6290.3	3918.9	3138.0	3028.1	2856.2	2691.4	2493.2	2311.7	2297.4
45°	8735.7	8943.5	6187.6	3391.1	2844.3	2777.4	2610.2	2431.1	2221.0	2058.6	2046.6
47.5°	10572.2	10278.5	6051.5	2923.1	2576.8	2557.7	2428.7	2221.0	2010.8	1898.6	1886.6
50°	13254.1	12380.0	6032.4	2583.9	2361.9	2371.4	2266.3	2075.3	1891.4	1798.3	1783.9
52.5°	16482.8	14918.6	6159.0	2345.1	2173.2	2209.0	2156.5	1979.8	1817.4	1738.6	1724.2
55°	19616.0	17201.6	6235.4	2158.9	1996.5	2063.3	2070.5	1922.4	1774.4	1695.6	1686.0
57.5°	22159.4	18921.1	5896.3	1989.3	1843.6	1946.3	1998.9	1889.0	1752.9	1693.2	1683.6
60°	23929.0	19733.0	4931.5	1838.9	1731.4	1853.2	1972.6	1891.4	1805.4	1812.6	1817.4
62.5°	24492.6	19372.4	3699.2	1726.6	1655.0	1822.1	2015.6	1989.3	1900.9	1955.9	1965.4
65°	23558.8	17882.2	2681.9	1638.3	1588.1	1843.6	2144.5	2060.9	1867.5	1908.1	1908.1
67.5°	20432.8	15405.8	2087.2	1557.1	1511.7	1884.2	2273.5	2053.8	1788.7	1836.5	1793.5
70°	16208.2	11916.7	1738.6	1466.3	1430.5	1824.5	2285.4	1979.8	1695.6	1705.1	1623.9
72.5°	10756.1	7835.4	1495.0	1380.3	1306.3	1640.6	2187.5	1884.2	1604.8	1549.9	1468.7
75°	5270.6	3907.0	1303.9	1272.9	1143.9	1428.1	2053.8	1793.5	1506.9	1420.9	1375.6
77.5°	2041.8	1662.1	1112.9	1136.7	995.8	1258.5	1877.1	1664.5	1377.9	1260.9	1225.1
80°	991.1	943.3	912.3	948.1	819.1	1072.3	1714.7	1552.3	1258.5	1129.6	1077.0
82.5°	616.1	582.7	699.7	737.9	630.5	979.1	1626.3	1456.8	1108.1	936.1	893.2
85°	312.8	334.3	468.1	503.9	451.4	778.5	1339.7	1093.8	800.0	663.9	668.7
87.5°	119.4	160.0	246.0	265.1	241.2	410.8	737.9	637.6	513.4	348.7	322.4
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)