

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: P302799

Luminaire Tested: **GLNA-AF-07-LED-E1-T4W-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-T4W-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40303.5 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

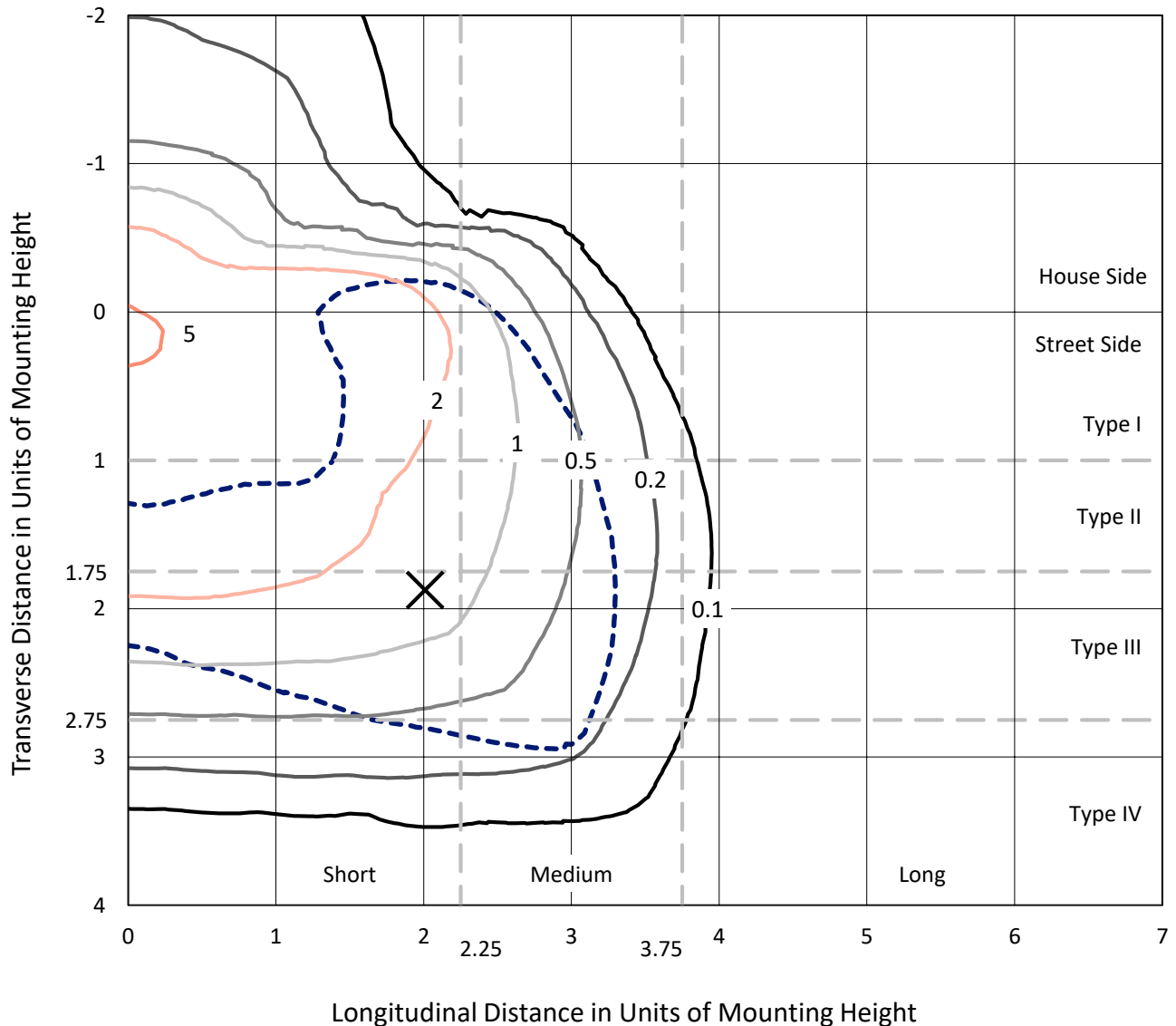
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

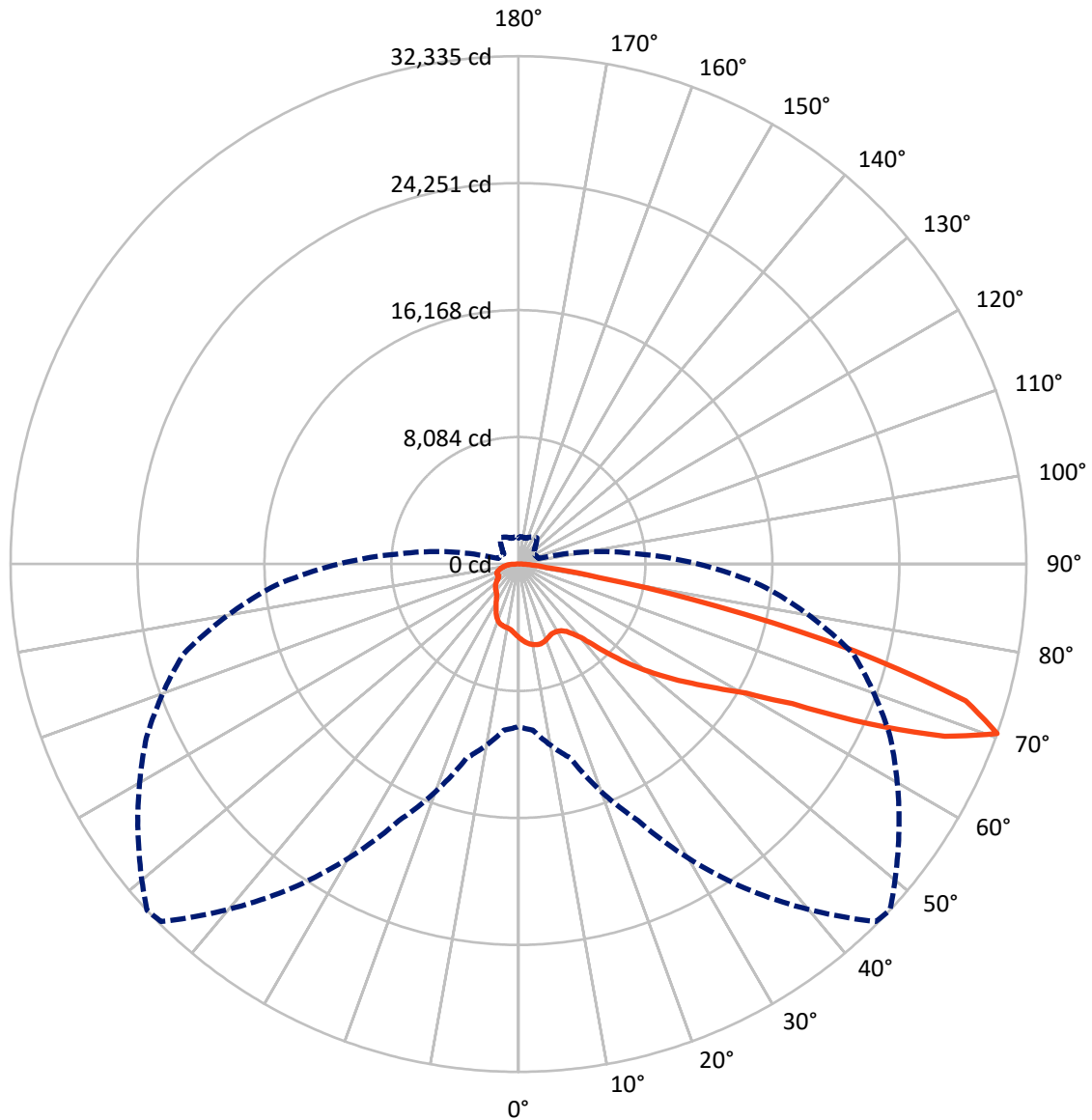
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P302799
CATALOG NUMBER: GLNA-AF-07-LED-E1-T4W-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: GLNA-AF-07-LED-E1-T4W-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8408.1	0.0	8408.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	31895.4	0.0	31895.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	40303.5	0.0	40303.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.1	1.1
10°-20°	1314.6	3.3
20°-30°	1941.3	4.8
30°-40°	2821.6	7.0
40°-50°	5077.8	12.6
50°-60°	8796.8	21.8
60°-70°	12555.7	31.2
70°-80°	6445.4	16.0
80°-90°	902.4	2.2
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°	40303.5	100.0
0°-180°	40303.5	100.0



REPORT NUMBER: P302799

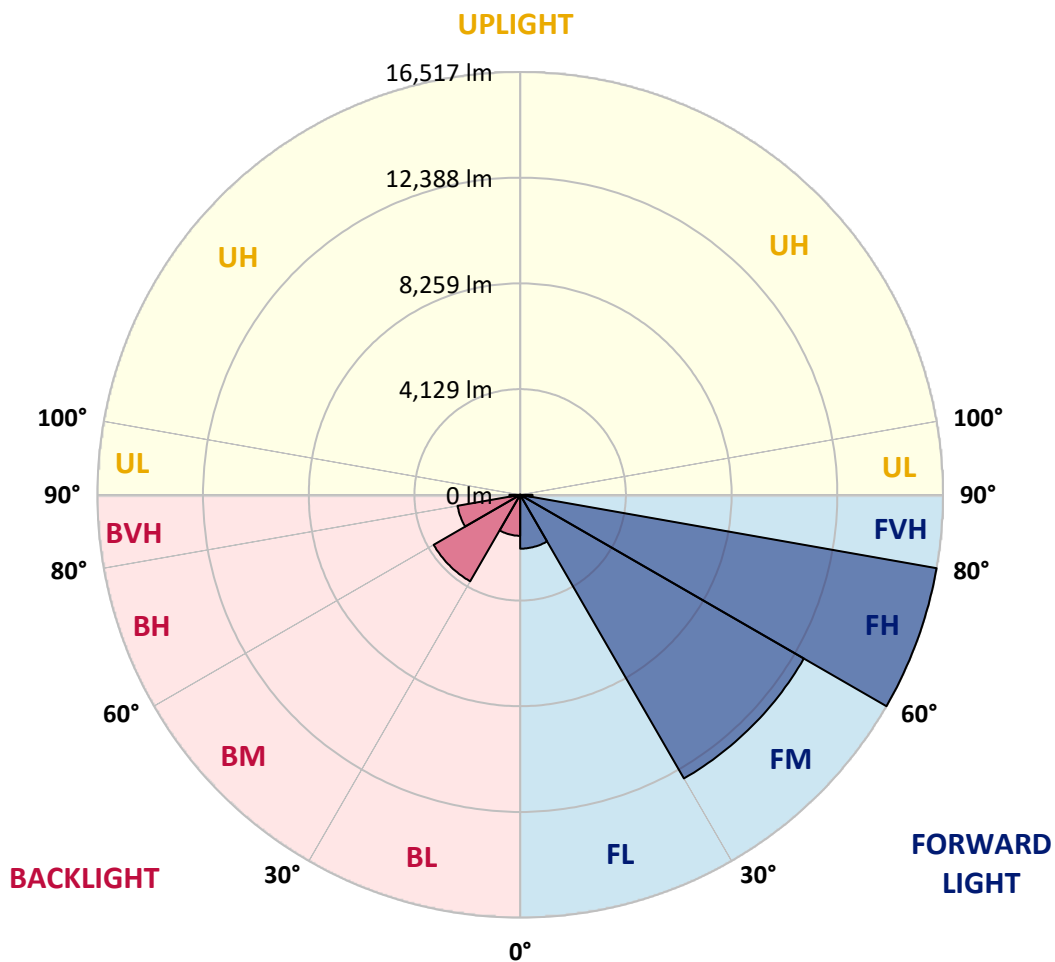
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2103.0	5.2			
FM	(30°-60°)	12793.5	31.7			
FH	(60°-80°)	16517.5	41.0			G5
FVH	(80°-90°)	481.5	1.2			G3/500
BL	(0°-30°)	1600.9	4.0	B3/2500		
BM	(30°-60°)	3902.8	9.7	B3/5000		
BH	(60°-80°)	2483.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	420.8	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4
2.5°	4951.2	4941.4	4937.5	4929.7	4919.9	4870.4	4860.7	4825.5	4776.6	4725.2	4672.5
5°	5276.8	5274.8	5252.7	5213.6	5151.1	5043.0	5017.6	4931.6	4815.7	4703.7	4592.4
7.5°	5562.7	5545.1	5504.1	5425.3	5315.9	5168.7	5133.5	5013.7	4854.8	4701.8	4550.7
10°	5772.4	5762.6	5672.7	5564.6	5421.3	5258.5	5217.5	5084.0	4909.5	4715.4	4527.2
12.5°	5892.2	5872.6	5768.4	5639.5	5468.9	5310.0	5268.3	5133.5	4937.5	4715.4	4494.0
15°	5884.4	5870.7	5766.5	5625.2	5453.3	5313.9	5276.8	5141.3	4931.6	4695.9	4451.0
17.5°	5727.4	5733.3	5645.4	5506.0	5364.7	5258.5	5225.3	5100.3	4891.9	4656.8	4400.2
20°	5453.3	5480.6	5421.3	5298.3	5219.5	5147.2	5125.7	5019.6	4831.3	4600.2	4344.9
22.5°	5178.4	5203.8	5180.4	5076.2	5064.5	5021.5	5009.8	4933.6	4778.6	4565.0	4311.7
25°	4976.6	5000.0	4996.1	4905.6	4941.4	4939.5	4929.7	4891.9	4766.9	4565.0	4317.5
27.5°	4921.9	4929.7	4921.9	4839.2	4888.0	4927.7	4919.9	4913.4	4802.0	4621.7	4392.4
30°	5110.1	5098.3	5037.1	4870.4	4916.0	4970.7	4962.9	4966.8	4907.5	4770.8	4559.1
32.5°	5860.9	5807.5	5615.4	5147.2	5027.4	5056.7	5060.6	5125.7	5135.5	5000.0	4817.7
35°	6984.3	6925.7	6676.2	5888.3	5374.5	5272.9	5272.9	5370.6	5429.2	5329.5	5219.5
37.5°	8174.7	8109.6	7976.7	6915.9	6103.8	5647.3	5637.6	5705.9	5789.9	5814.0	5841.4
40°	9527.2	9458.9	9496.0	8068.5	7121.7	6295.9	6156.6	6107.7	6335.0	6486.1	6706.2
42.5°	11008.1	10976.2	10989.9	9352.7	8280.2	7266.9	7068.9	6815.6	7090.4	7358.7	7819.8
45°	12378.3	12405.6	12391.9	10727.4	9570.9	8450.8	8241.1	7750.7	8019.7	8480.1	9231.6
47.5°	13578.4	13464.5	13641.0	12229.1	11015.9	9776.7	9517.5	8861.1	9133.3	9701.8	10972.3
50°	15035.2	15019.6	14761.0	14233.6	12762.5	11107.7	10768.5	10007.8	10431.1	11221.7	13166.9
52.5°	16566.9	16282.3	16045.2	15791.9	14615.8	12472.7	12056.6	11150.7	11956.9	12950.7	15841.4
55°	16880.1	16753.1	17046.8	17472.7	16402.1	13890.4	13405.9	12584.0	13674.8	14927.8	18925.6
57.5°	17550.8	17548.9	18157.1	18915.8	18241.1	15394.0	14905.6	14315.6	15605.7	17192.0	22199.9
60°	18004.1	18131.1	19260.9	20733.3	20046.9	17131.5	16682.1	16313.5	17802.2	19723.3	25250.8
62.5°	18241.1	18413.7	19955.1	21470.5	22599.7	20023.5	19574.8	19043.4	20707.9	22500.1	27035.1
65°	17255.2	17593.8	19847.0	22108.0	24835.3	24711.6	24509.7	23576.5	24341.0	24694.0	26390.4
67.5°	14525.3	14872.4	17496.1	21513.5	26431.4	29233.6	29276.6	27682.4	26576.7	24882.2	22188.1
70°	10349.1	10621.3	12792.4	18037.3	25215.6	32188.2	32335.3	29574.2	26131.2	22066.4	15502.1
72.5°	4913.4	5080.1	7135.3	11739.4	20009.8	29492.1	29776.7	27158.8	22219.4	16337.0	8456.7
75°	1805.8	1856.6	2411.4	4994.2	11605.9	21749.2	22084.6	19468.7	14729.1	8133.7	3221.6
77.5°	1082.3	1115.5	1353.2	2108.0	4565.0	12431.7	12927.2	10588.1	6437.2	3027.5	1584.4
80°	756.7	780.2	970.3	1311.5	2156.8	4737.6	5178.4	4321.4	2564.5	1915.9	1152.6
82.5°	511.9	523.6	682.5	886.3	1433.3	1691.9	1825.4	1921.7	1729.6	1425.5	731.3
85°	335.4	347.1	463.0	584.1	911.7	874.6	894.1	1131.2	1262.7	968.4	405.7
87.5°	192.1	199.9	278.7	311.9	447.4	370.5	374.4	595.9	808.2	653.2	246.8
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°	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4	4676.4
2.5°	4658.8	4633.4	4576.7	4540.9	4507.7	4499.9	4486.2	4484.3	4482.3	4482.3	4476.4
5°	4554.6	4511.6	4423.7	4374.2	4333.2	4329.3	4327.3	4337.1	4341.0	4344.9	4339.0
7.5°	4488.2	4429.6	4319.5	4249.2	4200.3	4188.0	4208.1	4253.1	4282.4	4294.1	4288.2
10°	4447.1	4374.2	4247.2	4170.4	4129.3	4123.5	4148.9	4202.3	4262.8	4286.3	4284.3
12.5°	4400.2	4317.5	4182.1	4102.0	4078.5	4090.3	4123.5	4172.3	4235.5	4272.6	4274.6
15°	4352.7	4257.0	4117.6	4047.3	4037.5	4053.1	4084.4	4121.5	4170.4	4208.1	4212.0
17.5°	4296.1	4195.8	4057.1	3984.1	3976.3	3984.1	3986.1	4005.6	4037.5	4072.7	4082.5
20°	4235.5	4133.2	3988.0	3915.7	3880.6	3849.3	3813.5	3817.4	3827.2	3863.0	3870.8
22.5°	4191.9	4090.3	3935.3	3835.0	3741.2	3646.8	3576.5	3566.7	3570.6	3599.9	3609.7
25°	4195.8	4088.3	3921.6	3749.0	3543.3	3392.2	3297.7	3282.1	3280.2	3301.7	3316.0
27.5°	4272.6	4164.5	3972.4	3660.5	3327.7	3103.7	3004.0	2992.3	2976.7	2982.6	2998.2
30°	4443.2	4342.9	4096.1	3570.6	3093.9	2821.7	2717.5	2705.8	2684.3	2674.5	2686.3
32.5°	4721.3	4639.2	4276.5	3484.0	2860.8	2580.1	2474.6	2449.2	2435.5	2423.8	2433.6
35°	5184.3	5149.1	4517.5	3390.2	2655.0	2393.9	2298.1	2259.1	2239.5	2261.0	2276.6
37.5°	5909.8	5929.3	4833.3	3243.0	2496.1	2270.8	2190.0	2145.1	2115.8	2133.4	2151.0
40°	6937.4	6951.0	5182.4	3035.3	2358.7	2197.8	2111.9	2070.9	2029.2	1997.9	1996.0
42.5°	8286.0	8147.3	5525.5	2810.0	2199.8	2152.9	2057.2	2005.7	1943.2	1856.6	1839.0
45°	9886.1	9398.3	5786.0	2550.8	2021.4	2098.2	1996.0	1925.6	1827.3	1733.5	1723.8
47.5°	11729.6	10741.1	5913.7	2282.5	1854.7	2017.5	1921.7	1809.7	1686.0	1639.1	1633.2
50°	13980.2	12335.3	5974.2	2021.4	1710.1	1912.0	1813.6	1682.1	1578.5	1568.8	1562.9
52.5°	16543.4	14253.1	5994.4	1807.8	1590.3	1774.6	1725.7	1598.1	1515.4	1523.8	1523.8
55°	19225.8	16233.4	5727.4	1652.8	1480.2	1633.2	1666.5	1564.9	1495.8	1527.7	1539.5
57.5°	21688.0	17988.5	4888.0	1533.6	1376.7	1525.8	1645.0	1596.1	1549.2	1676.2	1684.0
60°	23578.5	19025.2	3650.7	1425.5	1299.8	1488.0	1702.3	1715.9	1727.7	2031.1	2072.8
62.5°	23974.4	18680.7	2509.8	1341.5	1264.7	1519.9	1805.8	1807.8	1794.1	2005.7	2031.1
65°	22156.9	16497.8	1825.4	1294.0	1235.4	1576.6	1894.4	1852.7	1762.8	1923.7	1876.1
67.5°	17595.8	12429.7	1519.9	1258.8	1192.4	1572.7	1988.2	1894.4	1745.3	1884.6	1807.8
70°	11421.6	7515.6	1353.2	1229.5	1140.9	1497.8	2042.9	1890.5	1693.8	1753.1	1662.5
72.5°	5572.4	3360.9	1241.2	1186.5	1088.2	1394.2	2040.9	1854.7	1641.1	1637.1	1588.3
75°	2180.3	1539.5	1139.0	1121.4	998.3	1276.4	1986.2	1803.9	1578.5	1515.4	1497.8
77.5°	1276.4	1097.9	1010.0	1025.7	890.2	1158.5	1906.1	1715.9	1491.9	1417.7	1398.2
80°	929.3	821.8	860.9	886.3	760.6	1041.3	1798.0	1607.8	1396.2	1433.3	1406.0
82.5°	595.9	529.4	698.1	723.5	633.6	921.5	1680.1	1493.9	1260.7	1144.8	1117.5
85°	304.1	335.4	519.7	550.9	488.4	756.7	1537.5	1343.5	1107.7	952.7	968.4
87.5°	170.6	229.2	331.5	370.5	345.1	582.2	1247.1	1107.7	903.9	735.2	647.3
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)