

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: P192366

Luminaire Tested: **GLEON-AF-08-LED-E1-T4W-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192366  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-08-LED-E1-T4W-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38274 lumens  
Efficiency: N/A  
Efficacy: 114.6 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): 334  
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

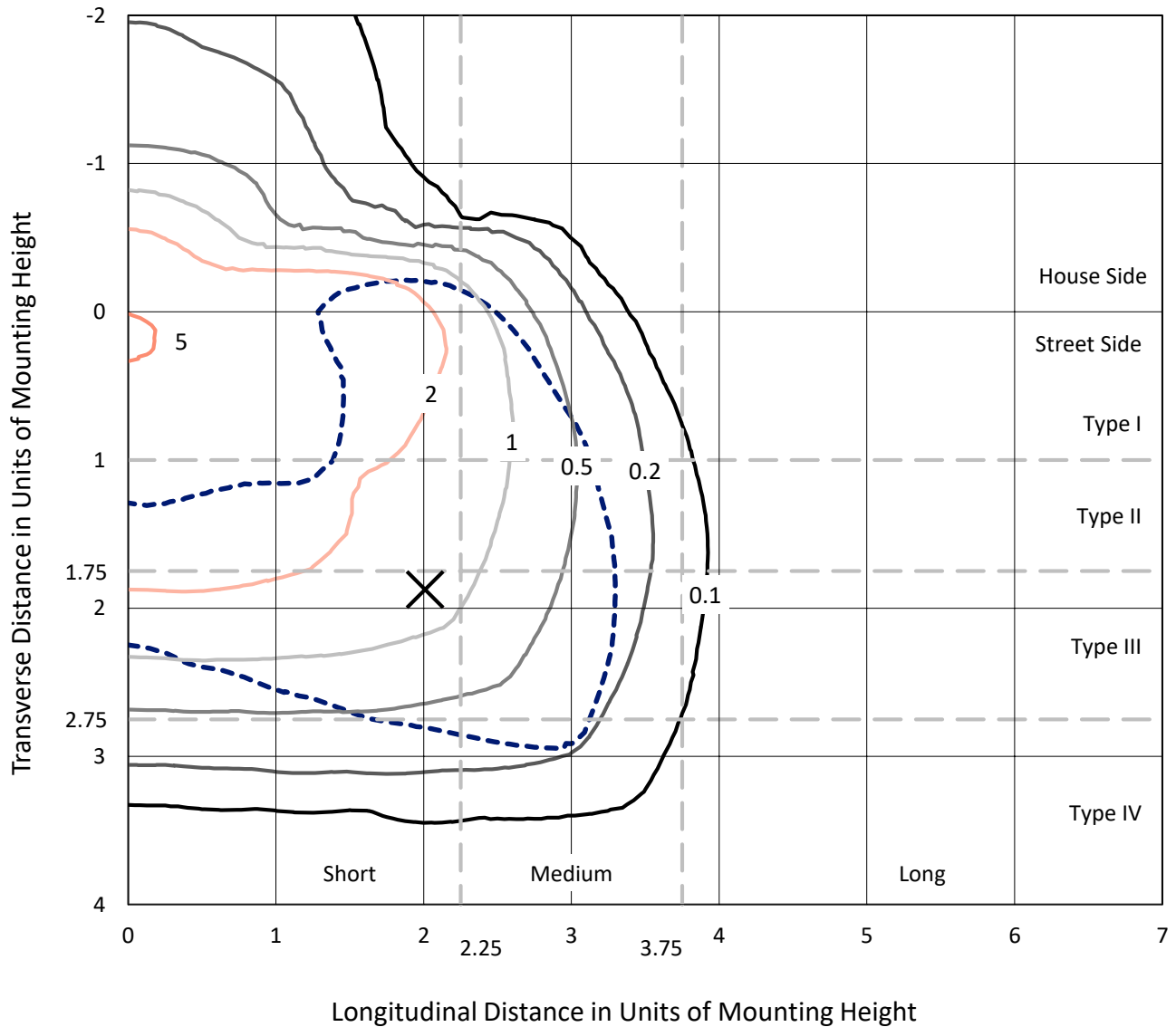


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

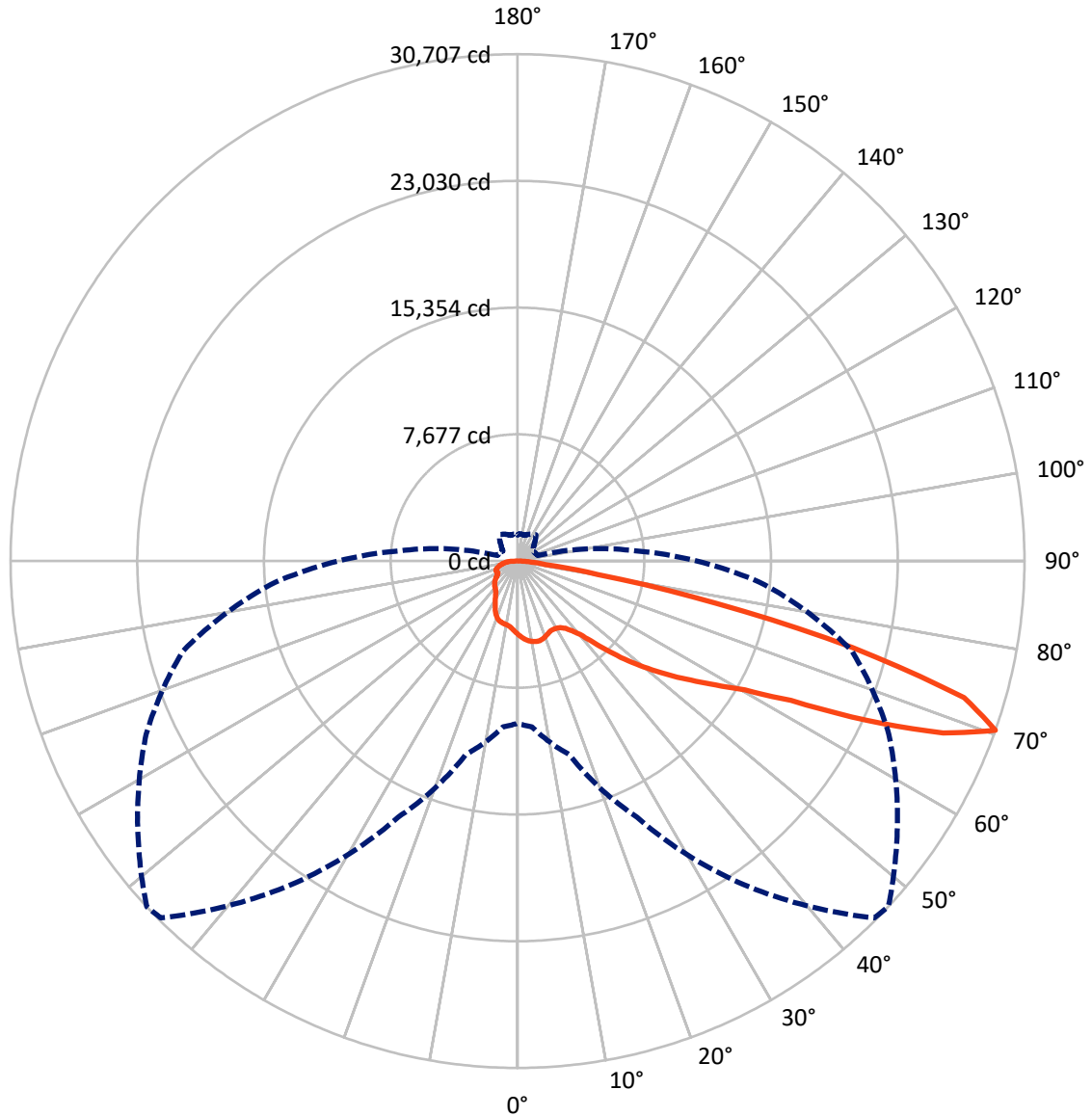


Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7984.7	0.0	7984.7
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	30289.3	0.0	30289.3
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	38274.0	0.0	38274.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.5	1.1
10°-20°	1248.4	3.3
20°-30°	1843.5	4.8
30°-40°	2679.5	7.0
40°-50°	4822.2	12.6
50°-60°	8353.9	21.8
60°-70°	11923.4	31.2
70°-80°	6120.8	16.0
80°-90°	856.9	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°	38274.0	100.0
0°-180°	38274.0	100.0



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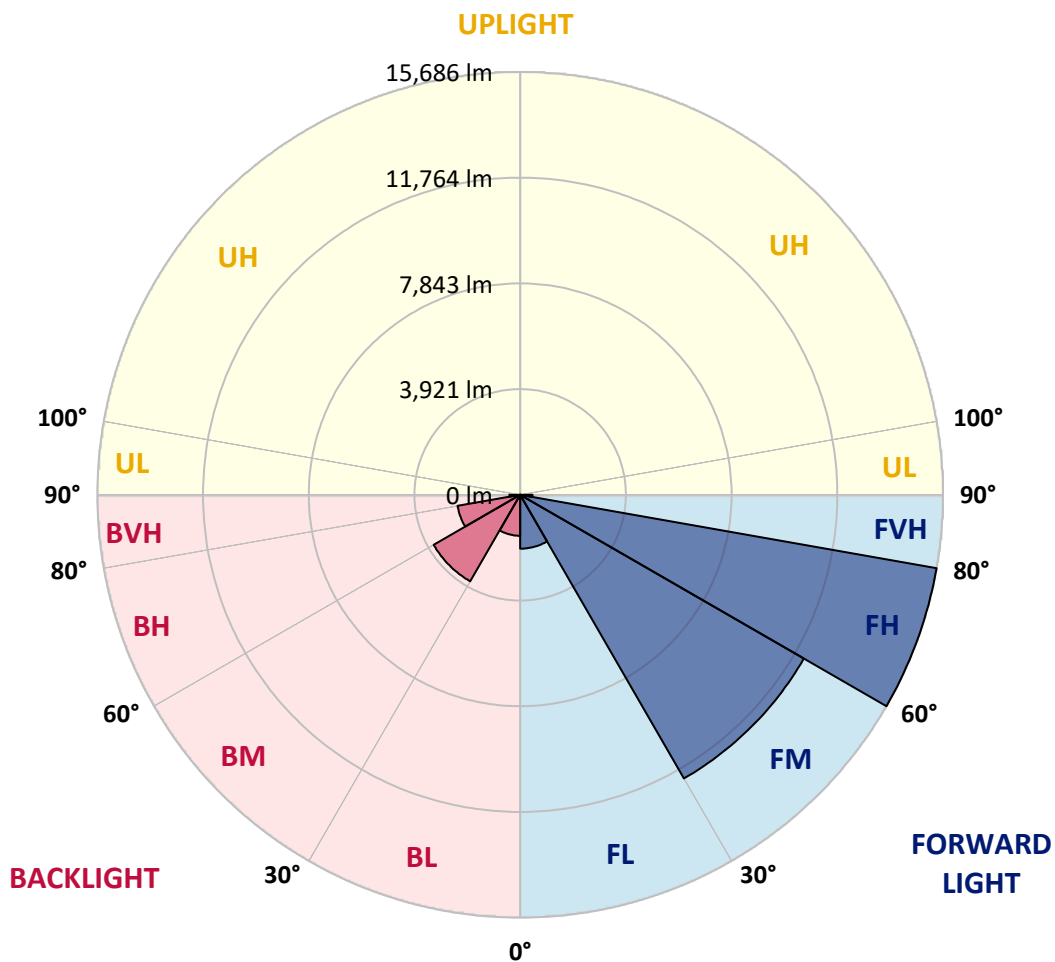
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1997.1	5.2			
FM	(30°-60°)	12149.2	31.7			
FH	(60°-80°)	15685.7	41.0			G5
FVH	(80°-90°)	457.3	1.2			G3/500
BL	(0°-30°)	1520.3	4.0	B3/2500		
BM	(30°-60°)	3706.3	9.7	B3/5000		
BH	(60°-80°)	2358.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	399.7	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°	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0
2.5°	4701.7	4692.4	4688.6	4681.2	4671.9	4625.3	4616.0	4582.5	4535.9	4487.5	4437.3
5°	5010.8	5008.9	4988.4	4951.2	4891.6	4789.2	4765.0	4683.0	4573.2	4467.0	4360.9
7.5°	5282.6	5265.9	5226.8	5152.3	5048.0	4908.3	4874.8	4761.2	4610.4	4465.2	4321.8
10°	5481.9	5472.5	5386.9	5284.5	5148.6	4994.0	4954.9	4828.3	4662.6	4478.2	4299.5
12.5°	5595.4	5576.8	5478.1	5355.2	5193.2	5042.4	5003.3	4874.8	4688.6	4478.2	4267.8
15°	5588.0	5575.0	5476.3	5342.2	5178.3	5046.1	5010.8	4882.3	4683.0	4459.6	4226.8
17.5°	5439.0	5444.6	5360.8	5228.6	5094.6	4994.0	4962.3	4843.2	4645.8	4422.4	4178.4
20°	5178.3	5204.4	5148.6	5031.2	4956.8	4887.9	4867.4	4766.8	4588.1	4368.4	4126.3
22.5°	4917.7	4941.9	4919.5	4820.8	4809.7	4768.7	4757.5	4684.9	4537.8	4334.8	4094.6
25°	4725.9	4748.2	4744.5	4658.8	4692.4	4690.5	4681.2	4645.8	4526.6	4334.8	4100.2
27.5°	4673.7	4681.2	4673.7	4595.5	4642.1	4679.3	4671.9	4666.3	4560.1	4388.8	4171.0
30°	4852.5	4841.3	4783.6	4625.3	4668.1	4720.3	4712.8	4716.6	4660.7	4530.4	4329.3
32.5°	5565.7	5515.4	5332.9	4887.9	4774.3	4802.2	4805.9	4867.4	4876.7	4748.2	4575.0
35°	6632.6	6576.7	6340.3	5591.7	5103.9	5007.0	5007.0	5100.1	5156.0	5061.0	4956.8
37.5°	7762.9	7701.4	7574.8	6567.4	5796.5	5362.7	5353.4	5418.5	5498.6	5521.0	5547.0
40°	9047.7	8982.5	9017.9	7662.3	6762.9	5979.0	5846.8	5800.3	6016.3	6159.6	6368.2
42.5°	10453.5	10423.7	10436.8	8882.0	7863.4	6900.7	6712.7	6472.5	6733.2	6988.3	7425.8
45°	11755.1	11781.2	11768.1	10187.2	9088.6	8025.4	7826.2	7360.7	7615.8	8053.3	8766.5
47.5°	12894.7	12786.7	12954.2	11613.6	10461.0	9284.2	9038.4	8414.6	8673.4	9213.4	10420.0
50°	14278.2	14263.3	14017.5	13516.6	12120.0	10548.5	10226.3	9503.9	9906.1	10656.5	12503.6
52.5°	15732.4	15462.4	15237.1	14996.9	13879.7	11844.5	11449.7	10589.4	11354.7	12298.8	15043.5
55°	16030.3	15909.3	16188.6	16592.7	15576.0	13190.7	12730.8	11950.6	12985.9	14175.7	17972.5
57.5°	16667.2	16665.3	17242.5	17963.1	17322.6	14618.9	14155.3	13594.8	14820.0	16326.4	21082.1
60°	17097.3	17218.3	18290.9	19689.3	19037.5	16268.7	15842.3	15492.2	16905.5	18730.3	23979.4
62.5°	17322.6	17486.5	18950.0	20389.4	21461.9	19015.2	18588.8	18084.2	19665.0	21367.0	25673.9
65°	16386.0	16708.1	18847.6	20994.5	23584.7	23467.3	23275.6	22389.2	23115.4	23450.6	25061.3
67.5°	13794.0	14123.6	16615.0	20430.3	25100.4	27761.2	27802.2	26288.3	25238.1	23629.3	21070.9
70°	9827.9	10086.7	12148.0	17128.9	23945.9	30567.3	30707.0	28085.2	24815.5	20955.4	14721.3
72.5°	4666.3	4824.6	6776.0	11148.1	19002.2	28007.0	28277.0	25791.2	21100.7	15514.6	8031.0
75°	1714.9	1763.4	2290.3	4742.6	11021.4	20653.8	20972.2	18488.2	13987.7	7723.8	3059.3
77.5°	1027.8	1059.5	1284.8	2001.7	4334.8	11805.4	12276.5	10055.0	6113.1	2875.0	1504.5
80°	718.7	741.1	921.7	1245.7	2048.2	4498.7	4917.7	4103.9	2435.6	1819.2	1094.9
82.5°	486.0	497.2	648.0	841.6	1361.2	1606.9	1733.6	1824.8	1642.3	1353.7	694.5
85°	318.4	329.6	439.4	554.9	865.9	830.5	849.1	1074.4	1199.2	919.8	385.4
87.5°	182.5	189.9	264.4	296.1	424.5	351.9	355.7	566.1	767.2	620.1	234.6
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°	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0
2.5°	4424.2	4400.0	4346.0	4312.5	4280.8	4273.4	4260.4	4258.5	4256.6	4256.6	4251.0
5°	4325.5	4284.6	4200.8	4154.2	4115.1	4111.4	4109.5	4118.8	4122.6	4126.3	4120.7
7.5°	4262.2	4206.4	4102.1	4035.0	3988.5	3977.3	3995.9	4038.8	4066.7	4077.9	4072.3
10°	4223.1	4154.2	4033.2	3960.6	3921.5	3915.9	3940.1	3990.4	4048.1	4070.4	4068.6
12.5°	4178.4	4100.2	3971.7	3895.4	3873.1	3884.2	3915.9	3962.4	4022.0	4057.4	4059.3
15°	4133.7	4042.5	3910.3	3843.3	3833.9	3848.8	3878.6	3914.0	3960.6	3995.9	3999.7
17.5°	4079.7	3984.8	3852.6	3783.7	3776.2	3783.7	3785.5	3804.2	3833.9	3867.5	3876.8
20°	4022.0	3925.2	3787.4	3718.5	3685.0	3655.2	3621.7	3625.4	3634.7	3668.2	3675.7
22.5°	3981.1	3884.2	3737.1	3642.2	3552.8	3463.4	3396.4	3387.1	3390.8	3418.7	3428.0
25°	3984.8	3882.4	3724.1	3560.2	3364.7	3221.3	3132.0	3117.1	3115.2	3135.7	3148.7
27.5°	4057.4	3955.0	3772.5	3476.4	3159.9	2947.6	2852.7	2841.5	2826.6	2832.2	2847.1
30°	4219.4	4124.4	3889.8	3390.8	2938.3	2679.5	2580.8	2569.6	2549.1	2539.8	2551.0
32.5°	4483.8	4405.6	4061.1	3308.9	2716.7	2450.5	2349.9	2325.7	2312.7	2301.5	2310.8
35°	4923.2	4889.7	4290.1	3219.5	2521.2	2273.6	2182.3	2145.1	2126.5	2146.9	2161.8
37.5°	5612.2	5630.8	4589.9	3079.8	2370.4	2156.2	2079.9	2037.1	2009.1	2025.9	2042.7
40°	6587.9	6600.9	4921.4	2882.4	2240.0	2087.4	2005.4	1966.3	1927.2	1897.4	1895.6
42.5°	7869.0	7736.8	5247.2	2668.3	2089.2	2044.5	1953.3	1904.9	1845.3	1763.4	1746.6
45°	9388.4	8924.8	5494.9	2422.5	1919.8	1992.4	1895.6	1828.5	1735.4	1646.0	1636.7
47.5°	11138.7	10200.3	5615.9	2167.4	1761.5	1916.0	1824.8	1718.7	1601.4	1556.7	1551.1
50°	13276.4	11714.1	5673.6	1919.8	1623.7	1815.5	1722.4	1597.6	1498.9	1489.6	1484.0
52.5°	15710.1	13535.2	5692.3	1716.8	1510.1	1685.2	1638.6	1517.6	1439.4	1446.8	1446.8
55°	18257.3	15415.9	5439.0	1569.7	1405.8	1551.1	1582.7	1485.9	1420.7	1450.5	1461.7
57.5°	20596.1	17082.4	4642.1	1456.1	1307.2	1448.7	1562.3	1515.7	1471.0	1592.0	1599.5
60°	22391.1	18067.4	3467.1	1353.7	1234.5	1413.3	1616.3	1629.3	1640.5	1929.1	1968.2
62.5°	22767.2	17739.7	2383.4	1273.6	1201.0	1443.1	1714.9	1716.8	1703.8	1904.9	1929.1
65°	21041.1	15667.2	1733.6	1228.9	1173.1	1497.1	1798.7	1759.6	1674.0	1826.7	1782.0
67.5°	16710.0	11803.5	1443.1	1195.4	1132.1	1493.4	1888.1	1798.7	1657.2	1789.4	1716.8
70°	10846.4	7137.2	1284.8	1167.5	1083.7	1422.6	1940.3	1795.0	1608.8	1664.7	1579.0
72.5°	5291.9	3191.5	1178.7	1126.5	1033.4	1323.9	1938.4	1761.5	1558.5	1554.8	1508.3
75°	2070.6	1461.7	1081.8	1065.1	947.8	1212.2	1886.3	1713.1	1498.9	1439.4	1422.6
77.5°	1212.2	1042.7	959.0	973.8	845.4	1100.5	1809.9	1629.3	1417.0	1346.3	1327.6
80°	882.6	780.2	817.4	841.6	722.5	988.7	1707.5	1526.9	1325.8	1361.2	1335.1
82.5°	566.1	502.8	662.9	687.1	601.4	875.2	1595.8	1418.9	1197.3	1087.4	1061.4
85°	288.6	318.4	493.4	523.2	463.6	718.7	1459.8	1275.5	1052.1	905.0	919.8
87.5°	162.0	217.9	314.7	351.9	327.7	553.0	1184.3	1052.1	858.4	698.3	614.5
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)