

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: P194117

Luminaire Tested: **GLEON-AF-09-LED-E1-T4W-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194117  
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-09-LED-E1-T4W-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 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: 43120 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G5

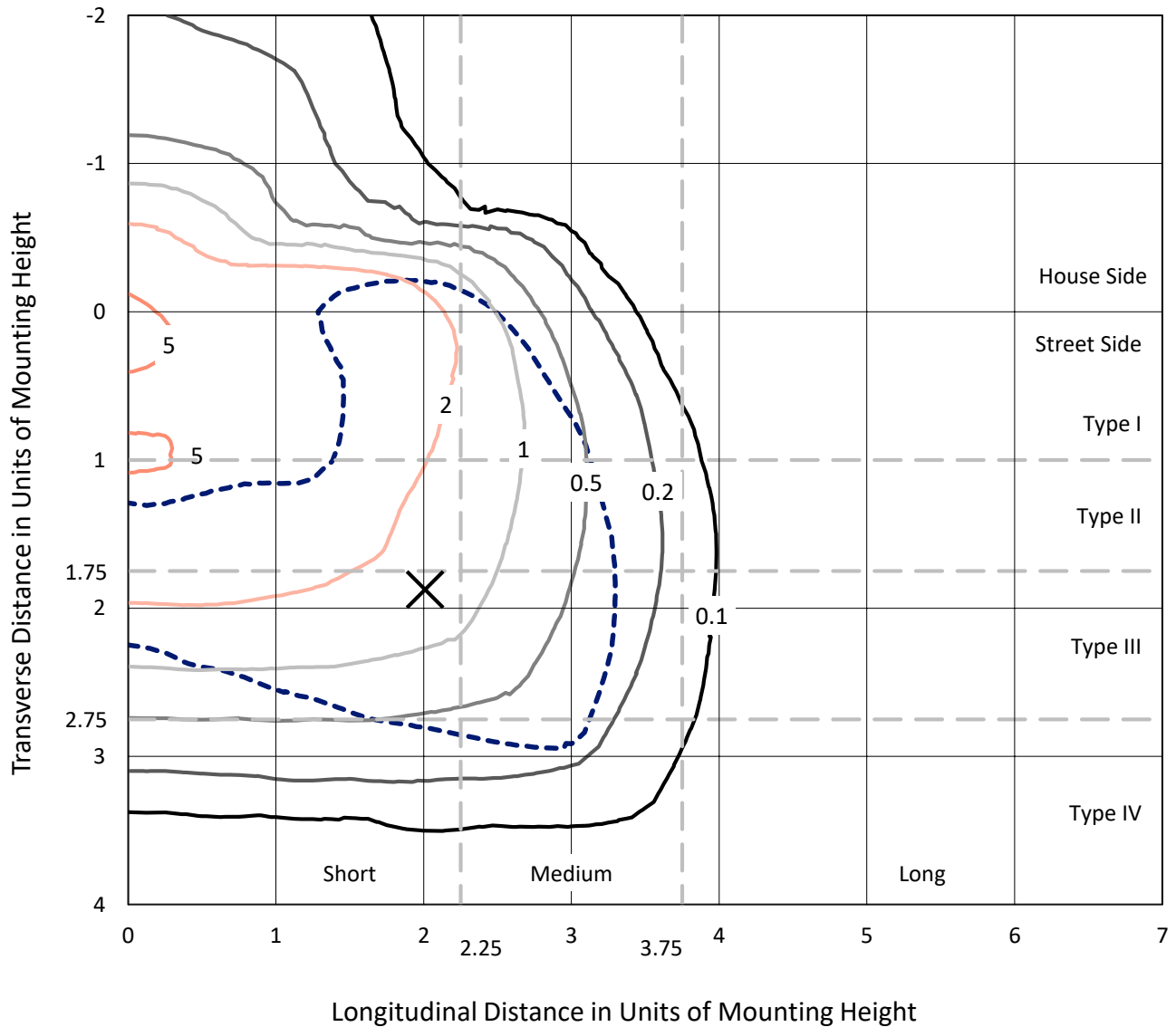
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

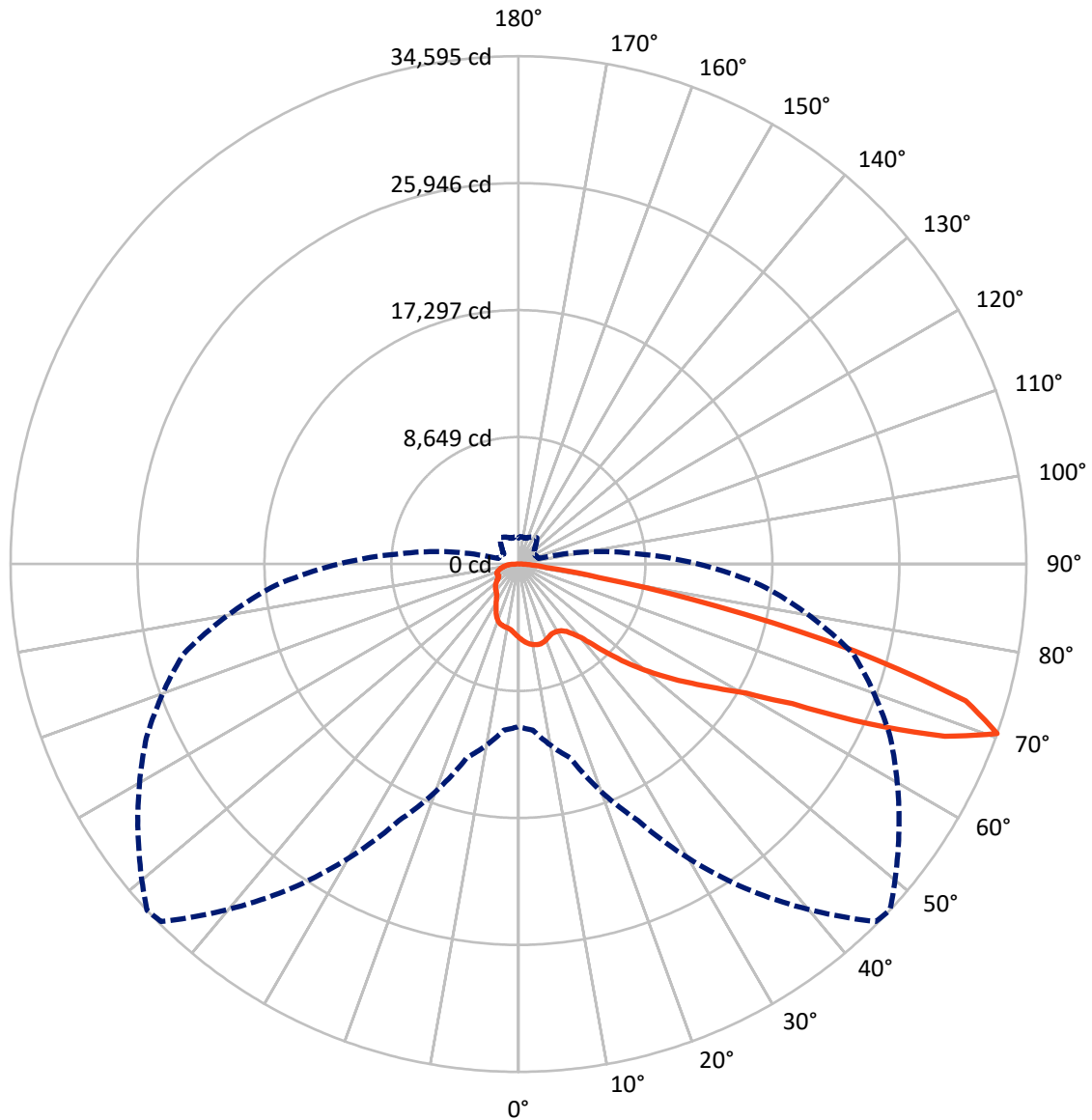
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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	8995.7	0.0	8995.7
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	34124.3	0.0	34124.3
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	43120.0	0.0	43120.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	479.4	1.1
10°-20°	1406.4	3.3
20°-30°	2076.9	4.8
30°-40°	3018.8	7.0
40°-50°	5432.7	12.6
50°-60°	9411.6	21.8
60°-70°	13433.0	31.2
70°-80°	6895.8	16.0
80°-90°	965.4	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°	43120.0	100.0
0°-180°	43120.0	100.0

**Coefficient of Utilization**



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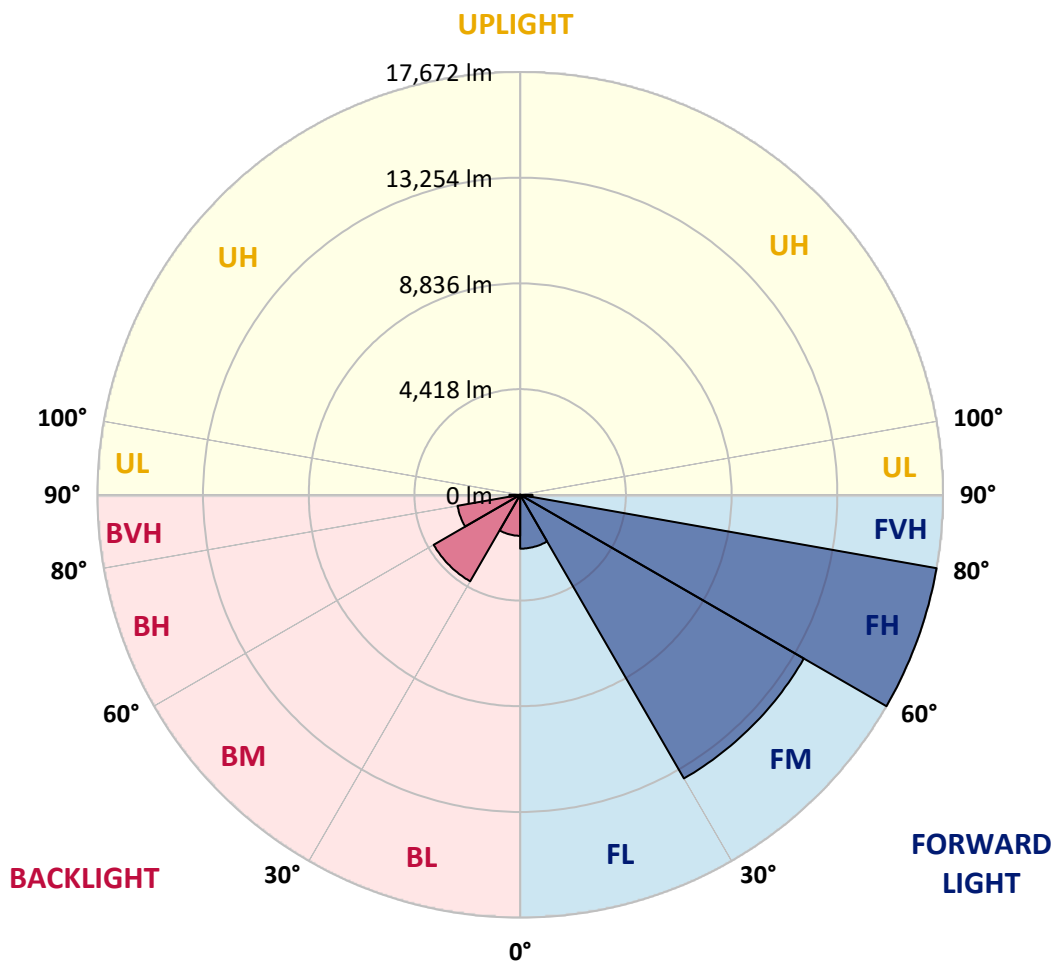
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2249.9	5.2			
FM	(30°-60°)	13687.5	31.7			
FH	(60°-80°)	17671.8	41.0			G5
FVH	(80°-90°)	515.2	1.2			G4/750
BL	(0°-30°)	1712.8	4.0	B3/2500		
BM	(30°-60°)	4175.5	9.7	B3/5000		
BH	(60°-80°)	2657.1	6.2	B4/5000		G4/5000
BVH	(80°-90°)	450.3	1.0			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°	55°	65°	75°	85°
0°	5003.3	5003.3	5003.3	5003.3	5003.3	5003.3	5003.3	5003.3	5003.3	5003.3	5003.3
2.5°	5297.0	5286.5	5282.3	5273.9	5263.4	5210.9	5200.5	5162.7	5110.3	5055.7	4999.1
5°	5645.2	5643.1	5620.0	5578.1	5510.9	5395.6	5368.3	5276.0	5152.2	5032.6	4913.1
7.5°	5951.5	5932.6	5888.5	5804.6	5687.1	5529.8	5492.1	5364.1	5194.2	5030.5	4869.0
10°	6175.9	6165.4	6068.9	5953.6	5800.4	5626.3	5582.3	5439.6	5252.9	5045.2	4843.8
12.5°	6303.9	6282.9	6171.7	6033.3	5850.8	5680.9	5636.8	5492.1	5282.3	5045.2	4808.2
15°	6295.5	6280.8	6169.6	6018.6	5834.0	5685.0	5645.2	5500.4	5276.0	5024.2	4762.0
17.5°	6127.7	6134.0	6039.6	5890.6	5739.6	5626.3	5590.6	5456.4	5234.0	4982.3	4707.5
20°	5834.0	5863.4	5800.4	5668.3	5584.4	5506.7	5483.7	5370.4	5169.0	4921.4	4648.7
22.5°	5540.3	5567.6	5542.4	5431.2	5418.6	5372.5	5359.9	5278.1	5112.3	4883.7	4613.1
25°	5324.2	5349.4	5345.2	5248.7	5286.5	5284.4	5273.9	5234.0	5099.8	4883.7	4619.4
27.5°	5265.5	5273.9	5265.5	5177.4	5229.8	5271.8	5263.4	5257.1	5137.5	4944.5	4699.1
30°	5466.9	5454.3	5389.3	5210.9	5259.2	5317.9	5309.5	5313.7	5250.8	5104.0	4877.4
32.5°	6270.3	6213.7	6008.1	5506.7	5378.8	5410.2	5414.4	5483.7	5494.1	5349.4	5154.3
35°	7472.4	7409.4	7143.0	6299.7	5750.1	5641.0	5641.0	5745.9	5808.8	5701.8	5584.4
37.5°	8745.7	8676.5	8533.9	7399.0	6530.5	6041.7	6031.2	6104.6	6194.8	6220.0	6249.4
40°	10193.2	10119.8	10159.7	8632.5	7619.2	6736.0	6587.1	6534.7	6778.0	6939.5	7174.5
42.5°	11777.1	11743.5	11758.2	10006.5	8859.0	7774.5	7562.6	7292.0	7585.7	7873.1	8366.0
45°	13243.4	13272.8	13258.1	11477.1	10239.4	9041.5	8817.1	8292.6	8580.0	9073.0	9876.5
47.5°	14527.3	14405.6	14594.4	13084.0	11785.5	10459.7	10182.7	9480.0	9771.6	10379.9	11739.3
50°	16086.0	16069.2	15792.3	15228.0	13654.6	11884.1	11521.1	10707.2	11160.3	12005.7	14086.8
52.5°	17724.3	17420.2	17166.3	16895.7	15637.0	13344.1	12899.4	11930.2	12792.4	13856.0	16948.2
55°	18060.0	17923.6	18238.3	18693.5	17548.1	14860.8	14342.7	13463.7	14630.1	15970.6	20248.0
57.5°	18777.4	18775.3	19425.7	20237.5	19515.9	16469.9	15947.5	15316.1	16696.4	18393.5	23751.3
60°	19262.0	19398.4	20606.7	22182.2	21447.9	18328.5	17848.1	17453.7	19046.0	21101.8	27015.5
62.5°	19515.9	19700.5	21349.4	22971.0	24179.3	21422.8	20942.4	20373.9	22154.9	24072.3	28924.5
65°	18460.7	18823.6	21234.0	23652.7	26570.8	26438.6	26222.5	25224.0	26042.1	26419.7	28234.3
67.5°	15540.5	15911.8	18718.7	23017.1	28278.4	31276.2	31322.3	29616.8	28433.6	26621.1	23738.7
70°	11072.2	11363.8	13686.1	19297.7	26977.8	34437.5	34594.9	31641.2	27957.4	23608.7	16585.2
72.5°	5257.1	5435.4	7633.9	12559.6	21408.1	31553.1	31857.3	29056.7	23772.3	17478.9	9047.8
75°	1932.1	1986.6	2580.3	5343.1	12416.9	23268.8	23627.6	20829.1	15758.7	8701.7	3446.7
77.5°	1158.0	1193.7	1447.5	2255.1	4883.7	13300.1	13830.8	11328.1	6887.1	3239.0	1695.0
80°	809.8	834.9	1038.4	1403.4	2307.6	5068.3	5540.3	4623.6	2743.9	2049.6	1233.5
82.5°	547.5	560.1	730.0	948.2	1533.5	1810.4	1953.1	2055.8	1850.3	1525.1	782.5
85°	358.7	371.3	495.1	625.1	975.5	935.6	956.6	1210.4	1351.0	1036.3	434.2
87.5°	205.6	214.0	297.9	333.6	478.3	396.5	400.7	637.7	864.3	698.6	264.3
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°	5003.3	5003.3	5003.3	5003.3	5003.3	5003.3	5003.3	5003.3	5003.3	5003.3	5003.3
2.5°	4984.4	4957.1	4896.3	4858.5	4822.9	4814.5	4799.8	4797.7	4795.6	4795.6	4789.3
5°	4873.2	4827.0	4732.6	4680.2	4636.1	4632.0	4629.9	4640.3	4644.5	4648.7	4642.4
7.5°	4801.9	4738.9	4621.5	4545.9	4493.5	4480.9	4501.9	4550.1	4581.6	4594.2	4587.9
10°	4757.8	4680.2	4543.8	4462.0	4418.0	4411.7	4439.0	4495.6	4560.6	4585.8	4583.7
12.5°	4707.5	4619.4	4474.6	4388.6	4363.4	4376.0	4411.7	4464.1	4531.3	4571.1	4573.2
15°	4657.1	4554.3	4405.4	4329.9	4319.4	4336.2	4369.7	4409.6	4462.0	4501.9	4506.1
17.5°	4596.3	4489.3	4340.4	4262.7	4254.3	4262.7	4264.8	4285.8	4319.4	4357.1	4367.6
20°	4531.3	4422.2	4266.9	4189.3	4151.6	4118.0	4080.2	4084.4	4094.9	4132.7	4141.1
22.5°	4485.1	4376.0	4210.3	4103.3	4002.6	3901.9	3826.4	3815.9	3820.1	3851.6	3862.1
25°	4489.3	4373.9	4195.6	4011.0	3790.7	3629.2	3528.5	3511.7	3509.6	3532.7	3547.4
27.5°	4571.1	4455.7	4250.2	3916.6	3560.0	3320.8	3213.8	3201.2	3184.5	3190.8	3207.5
30°	4753.6	4646.6	4382.3	3820.1	3310.3	3018.7	2907.6	2895.0	2871.9	2861.4	2874.0
32.5°	5051.5	4963.4	4575.3	3727.8	3060.7	2760.7	2647.4	2620.2	2605.5	2592.9	2603.4
35°	5546.6	5508.8	4833.3	3627.1	2840.4	2561.4	2458.6	2416.7	2395.7	2418.8	2435.6
37.5°	6322.8	6343.8	5171.1	3469.8	2670.5	2429.3	2343.2	2295.0	2263.5	2282.4	2301.3
40°	7422.0	7436.7	5544.5	3247.4	2523.7	2351.6	2259.3	2215.3	2171.2	2137.7	2135.6
42.5°	8865.3	8716.4	5911.6	3006.2	2353.7	2303.4	2200.6	2146.1	2078.9	1986.6	1967.7
45°	10577.1	10054.8	6190.6	2729.2	2162.8	2244.7	2135.6	2060.0	1955.2	1854.5	1844.0
47.5°	12549.1	11491.8	6327.0	2441.8	1984.5	2158.6	2055.8	1936.3	1804.1	1753.8	1747.5
50°	14957.3	13197.3	6392.0	2162.8	1829.3	2045.4	1940.5	1799.9	1688.7	1678.2	1671.9
52.5°	17699.2	15248.9	6413.0	1934.2	1701.3	1898.5	1846.1	1709.7	1621.6	1630.0	1630.0
55°	20569.0	17367.7	6127.7	1768.4	1583.8	1747.5	1783.1	1674.0	1600.6	1634.2	1646.8
57.5°	23203.8	19245.3	5229.8	1640.5	1472.7	1632.1	1760.1	1707.6	1657.3	1793.6	1802.0
60°	25226.1	20355.0	3906.1	1525.1	1390.8	1592.2	1820.9	1835.6	1848.2	2173.3	2217.4
62.5°	25649.8	19985.8	2685.2	1434.9	1353.1	1625.8	1932.1	1934.2	1919.5	2146.1	2173.3
65°	23705.2	17650.9	1953.1	1384.6	1321.6	1686.6	2026.5	1982.4	1885.9	2057.9	2007.6
67.5°	18825.7	13298.0	1625.8	1346.8	1275.5	1682.4	2127.2	2026.5	1867.0	2016.0	1934.2
70°	12219.7	8040.9	1447.5	1315.3	1220.9	1602.7	2185.9	2022.3	1812.5	1875.4	1778.9
72.5°	5962.0	3595.6	1327.9	1269.2	1164.3	1491.5	2183.8	1984.5	1755.9	1751.7	1699.2
75°	2332.8	1646.8	1218.8	1199.9	1067.8	1365.7	2125.1	1930.0	1688.7	1621.6	1602.7
77.5°	1365.7	1174.8	1080.4	1097.2	952.4	1239.8	2039.1	1835.6	1596.4	1516.7	1495.7
80°	994.4	879.0	920.9	948.2	813.9	1113.9	1923.7	1720.2	1493.6	1533.5	1504.1
82.5°	637.7	566.4	746.8	774.1	677.6	986.0	1797.8	1598.5	1348.9	1225.1	1195.7
85°	325.2	358.7	555.9	589.5	522.4	809.8	1644.7	1437.0	1185.3	1019.5	1036.3
87.5°	182.5	245.4	354.5	396.5	369.2	623.0	1334.2	1185.3	967.1	786.7	692.3
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)