

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: P194126

Luminaire Tested: **GLEON-AF-08-LED-E1-T4W-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194126  
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-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42405 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G5

Input Watts (W): 511  
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

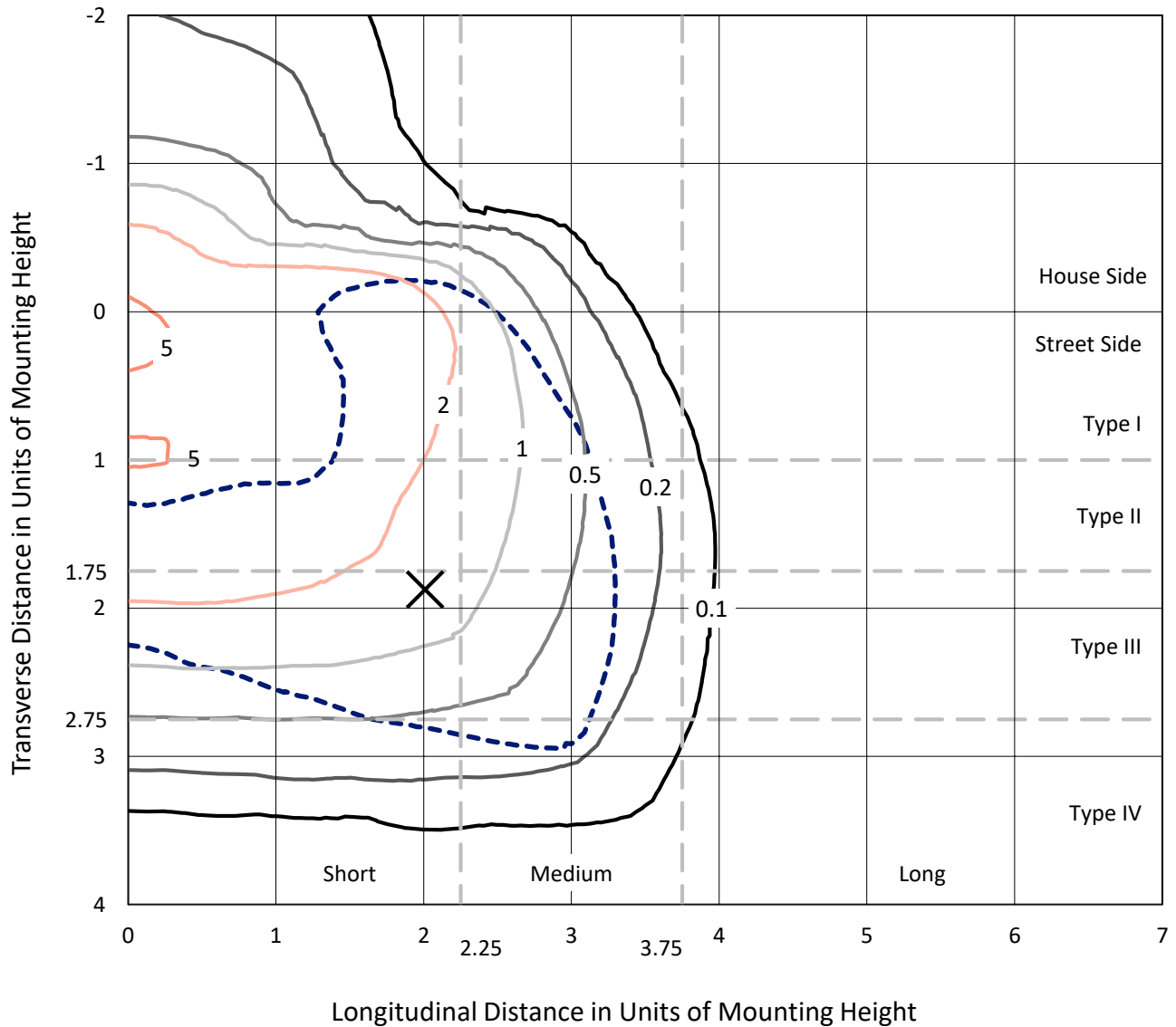


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### Iso-Footcandle Lines of Horizontal Illumination

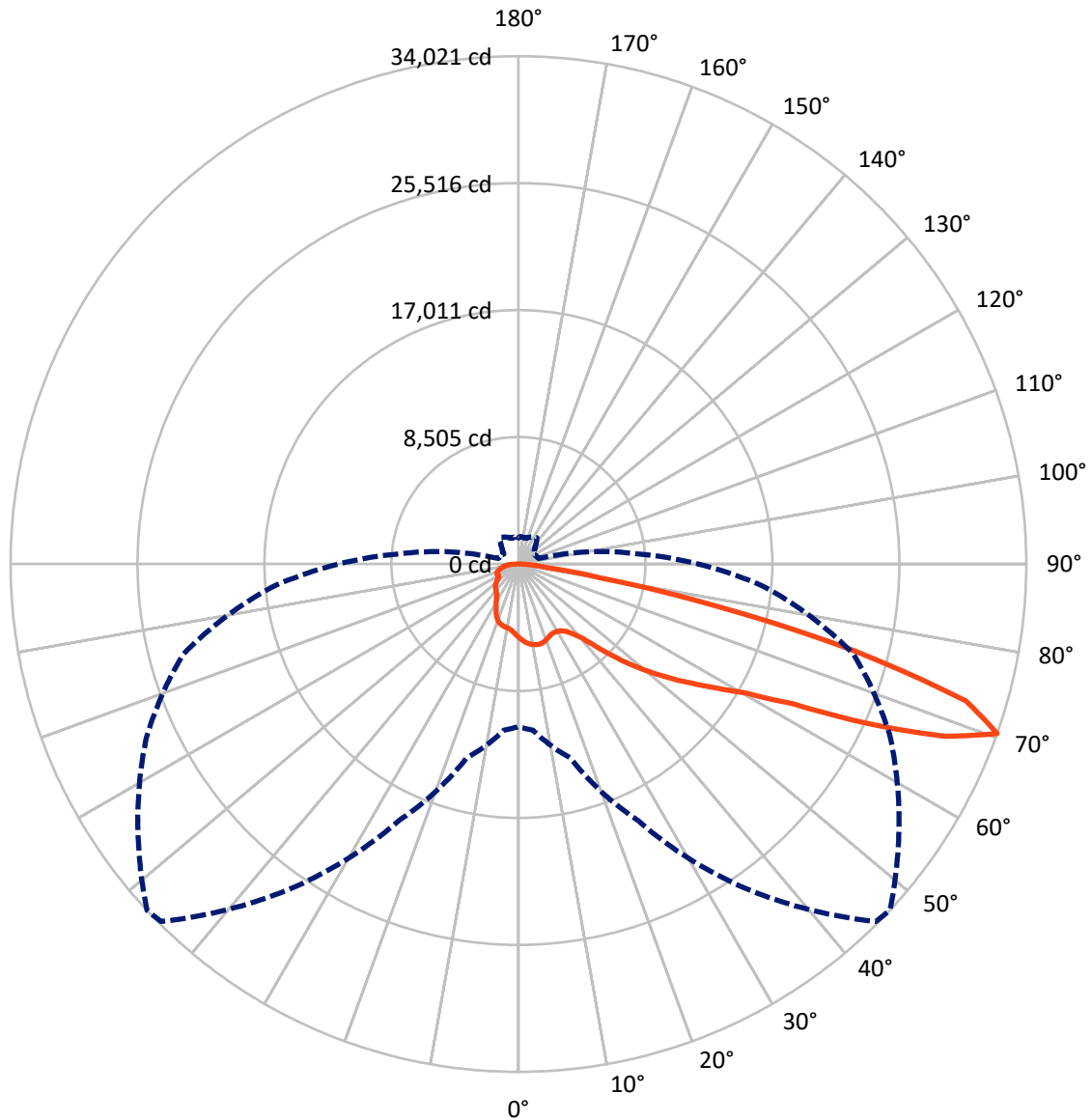
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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	8846.5	0.0	8846.5
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	33558.5	0.0	33558.5
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	42405.0	0.0	42405.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	471.4	1.1
10°-20°	1383.1	3.3
20°-30°	2042.5	4.8
30°-40°	2968.7	7.0
40°-50°	5342.6	12.6
50°-60°	9255.5	21.8
60°-70°	13210.3	31.2
70°-80°	6781.4	16.0
80°-90°	949.4	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°	42405.0	100.0
0°-180°	42405.0	100.0

**Coefficient of Utilization**



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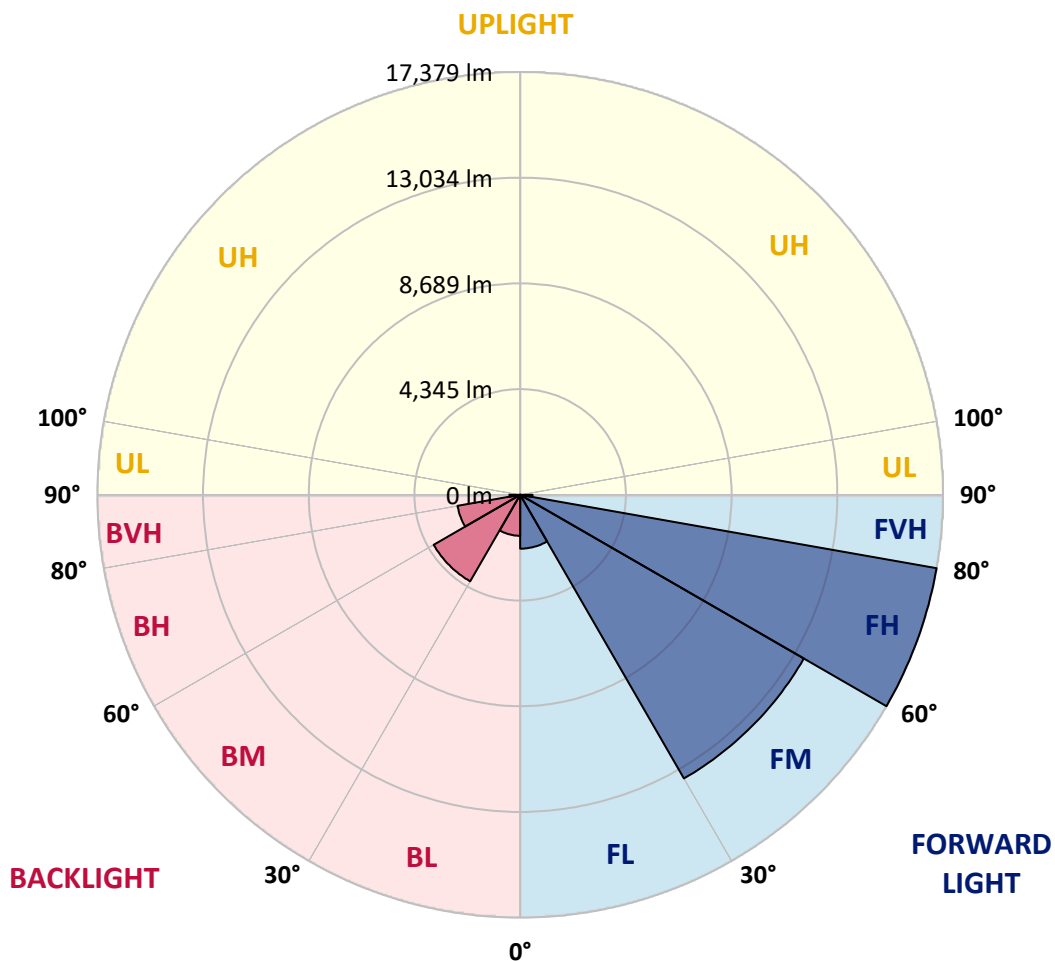
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2212.6	5.2			
FM	(30°-60°)	13460.5	31.7			
FH	(60°-80°)	17378.7	41.0			G5
FVH	(80°-90°)	506.6	1.2			G4/750
BL	(0°-30°)	1684.4	4.0	B3/2500		
BM	(30°-60°)	4106.3	9.7	B3/5000		
BH	(60°-80°)	2613.0	6.2	B4/5000		G4/5000
BVH	(80°-90°)	442.8	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3
2.5°	5209.1	5198.8	5194.7	5186.4	5176.1	5124.5	5114.2	5077.1	5025.5	4971.9	4916.2
5°	5551.6	5549.5	5526.8	5485.6	5419.6	5306.1	5279.3	5188.5	5066.8	4949.2	4831.6
7.5°	5852.8	5834.2	5790.9	5708.4	5592.8	5438.1	5401.0	5275.1	5108.0	4947.1	4788.3
10°	6073.5	6063.2	5968.3	5854.8	5704.2	5533.0	5489.7	5349.4	5165.8	4961.6	4763.5
12.5°	6199.4	6178.7	6069.4	5933.2	5753.8	5586.7	5543.3	5401.0	5194.7	4961.6	4728.4
15°	6191.1	6176.7	6067.3	5918.8	5737.3	5590.8	5551.6	5409.2	5188.5	4940.9	4683.1
17.5°	6026.1	6032.3	5939.4	5793.0	5644.4	5533.0	5497.9	5365.9	5147.2	4899.7	4629.4
20°	5737.3	5766.1	5704.2	5574.3	5491.8	5415.4	5392.7	5281.3	5083.3	4839.8	4571.6
22.5°	5448.4	5475.3	5450.5	5341.2	5328.8	5283.4	5271.0	5190.6	5027.6	4802.7	4536.6
25°	5235.9	5260.7	5256.6	5161.7	5198.8	5196.7	5186.4	5147.2	5015.2	4802.7	4542.8
27.5°	5178.2	5186.4	5178.2	5091.5	5143.1	5184.4	5176.1	5169.9	5052.3	4862.5	4621.2
30°	5376.2	5363.8	5299.9	5124.5	5172.0	5229.8	5221.5	5225.6	5163.7	5019.3	4796.5
32.5°	6166.4	6110.7	5908.5	5415.4	5289.6	5320.5	5324.7	5392.7	5403.0	5260.7	5068.8
35°	7348.5	7286.6	7024.6	6195.2	5654.7	5547.5	5547.5	5650.6	5712.5	5607.3	5491.8
37.5°	8600.7	8532.6	8392.4	7276.3	6422.2	5941.5	5931.2	6003.4	6092.1	6116.9	6145.7
40°	10024.2	9952.0	9991.2	8489.3	7492.9	6624.4	6477.9	6426.3	6665.6	6824.5	7055.5
42.5°	11581.8	11548.8	11563.2	9840.6	8712.1	7645.5	7437.2	7171.1	7459.9	7742.5	8227.3
45°	13023.8	13052.7	13038.3	11286.8	10069.6	8891.6	8670.9	8155.1	8437.7	8922.6	9712.7
47.5°	14286.4	14166.8	14352.4	12867.0	11590.0	10286.2	10013.9	9322.8	9609.5	10207.8	11544.7
50°	15819.2	15802.7	15530.4	14975.5	13428.2	11687.0	11330.1	10529.6	10975.3	11806.7	13853.2
52.5°	17430.4	17131.3	16881.7	16615.6	15377.7	13122.9	12685.5	11732.4	12580.3	13626.2	16667.1
55°	17760.5	17626.4	17935.9	18383.6	17257.2	14614.4	14104.9	13240.5	14387.5	15705.8	19912.3
57.5°	18466.1	18464.0	19103.6	19901.9	19192.3	16196.8	15683.1	15062.1	16419.6	18088.5	23357.5
60°	18942.6	19076.7	20265.0	21814.4	21092.3	18024.6	17552.2	17164.3	18730.1	20751.9	26567.6
62.5°	19192.3	19373.8	20995.3	22590.1	23778.4	21067.5	20595.1	20036.0	21787.5	23673.1	28444.9
65°	18154.6	18511.5	20881.9	23260.5	26130.2	26000.2	25787.7	24805.7	25610.3	25981.7	27766.2
67.5°	15282.8	15648.0	18408.3	22635.4	27809.5	30757.5	30802.9	29125.7	27962.2	26179.7	23345.1
70°	10888.6	11175.4	13459.1	18977.7	26530.4	33866.5	34021.2	31116.5	27493.9	23217.2	16310.2
72.5°	5169.9	5345.3	7507.3	12351.3	21053.1	31029.9	31329.0	28574.9	23378.1	17189.1	8897.8
75°	1900.0	1953.7	2537.5	5254.5	12211.0	22883.0	23235.8	20483.7	15497.4	8557.4	3389.5
77.5°	1138.8	1173.9	1423.5	2217.7	4802.7	13079.5	13601.5	11140.3	6772.9	3185.3	1666.9
80°	796.3	821.1	1021.2	1380.2	2269.3	4984.3	5448.4	4546.9	2698.4	2015.6	1213.1
82.5°	538.4	550.8	717.9	932.5	1508.1	1780.4	1920.7	2021.8	1819.6	1499.8	769.5
85°	352.8	365.2	486.9	614.8	959.3	920.1	940.7	1190.4	1328.6	1019.1	427.0
87.5°	202.2	210.4	292.9	328.0	470.4	389.9	394.0	627.2	850.0	687.0	259.9
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°	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3
2.5°	4901.7	4874.9	4815.1	4778.0	4742.9	4734.6	4720.2	4718.1	4716.1	4716.1	4709.9
5°	4792.4	4747.0	4654.2	4602.6	4559.3	4555.1	4553.1	4563.4	4567.5	4571.6	4565.5
7.5°	4722.3	4660.4	4544.8	4470.6	4419.0	4406.6	4427.2	4474.7	4505.6	4518.0	4511.8
10°	4678.9	4602.6	4468.5	4388.0	4344.7	4338.5	4365.3	4421.0	4485.0	4509.8	4507.7
12.5°	4629.4	4542.8	4400.4	4315.8	4291.1	4303.5	4338.5	4390.1	4456.1	4495.3	4497.4
15°	4579.9	4478.8	4332.3	4258.1	4247.8	4264.3	4297.3	4336.5	4388.0	4427.2	4431.4
17.5°	4520.1	4414.9	4268.4	4192.1	4183.8	4192.1	4194.1	4214.7	4247.8	4284.9	4295.2
20°	4456.1	4348.8	4196.2	4119.8	4082.7	4049.7	4012.6	4016.7	4027.0	4064.1	4072.4
22.5°	4410.7	4303.5	4140.5	4035.3	3936.2	3837.2	3762.9	3752.6	3756.8	3787.7	3798.0
25°	4414.9	4301.4	4126.0	3944.5	3727.9	3569.0	3470.0	3453.5	3451.4	3474.1	3488.6
27.5°	4495.3	4381.9	4179.7	3851.7	3500.9	3265.8	3160.5	3148.2	3131.7	3137.9	3154.4
30°	4674.8	4569.6	4309.6	3756.8	3255.4	2968.7	2859.3	2847.0	2824.3	2814.0	2826.3
32.5°	4967.7	4881.1	4499.4	3666.0	3009.9	2714.9	2603.5	2576.7	2562.3	2549.9	2560.2
35°	5454.6	5417.5	4753.2	3567.0	2793.3	2518.9	2417.9	2376.6	2356.0	2378.7	2395.2
37.5°	6217.9	6238.6	5085.3	3412.2	2626.2	2389.0	2304.4	2256.9	2226.0	2244.6	2263.1
40°	7299.0	7313.4	5452.6	3193.6	2481.8	2312.6	2221.9	2178.5	2135.2	2102.2	2100.2
42.5°	8718.3	8571.8	5813.6	2956.3	2314.7	2265.2	2164.1	2110.5	2044.5	1953.7	1935.1
45°	10401.7	9888.0	6088.0	2684.0	2127.0	2207.4	2100.2	2025.9	1922.7	1823.7	1813.4
47.5°	12341.0	11301.2	6222.1	2401.4	1951.6	2122.8	2021.8	1904.2	1774.2	1724.7	1718.5
50°	14709.3	12978.5	6286.0	2127.0	1799.0	2011.4	1908.3	1770.1	1660.7	1650.4	1644.2
52.5°	17405.7	14996.1	6306.6	1902.1	1673.1	1867.0	1815.5	1681.4	1594.7	1603.0	1603.0
55°	20227.9	17079.7	6026.1	1739.1	1557.6	1718.5	1753.6	1646.3	1574.1	1607.1	1619.5
57.5°	22819.1	18926.1	5143.1	1613.3	1448.2	1605.0	1730.9	1679.3	1629.8	1763.9	1772.1
60°	24807.8	20017.5	3841.3	1499.8	1367.8	1565.8	1790.7	1805.1	1817.5	2137.3	2180.6
62.5°	25224.5	19654.4	2640.7	1411.1	1330.6	1598.8	1900.0	1902.1	1887.7	2110.5	2137.3
65°	23312.1	17358.2	1920.7	1361.6	1299.7	1658.7	1992.9	1949.6	1854.7	2023.8	1974.3
67.5°	18513.5	13077.5	1598.8	1324.5	1254.3	1654.5	2091.9	1992.9	1836.1	1982.6	1902.1
70°	12017.1	7907.6	1423.5	1293.5	1200.7	1576.1	2149.7	1988.8	1782.4	1844.3	1749.4
72.5°	5863.1	3536.0	1305.9	1248.1	1145.0	1466.8	2147.6	1951.6	1726.7	1722.6	1671.0
75°	2294.1	1619.5	1198.6	1180.0	1050.1	1343.0	2089.8	1898.0	1660.7	1594.7	1576.1
77.5°	1343.0	1155.3	1062.5	1079.0	936.6	1219.2	2005.3	1805.1	1570.0	1491.6	1470.9
80°	977.9	864.4	905.7	932.5	800.5	1095.5	1891.8	1691.7	1468.9	1508.1	1479.2
82.5°	627.2	557.0	734.4	761.3	666.4	969.6	1768.0	1572.0	1326.5	1204.8	1175.9
85°	319.8	352.8	546.7	579.7	513.7	796.3	1617.4	1413.2	1165.6	1002.6	1019.1
87.5°	179.5	241.4	348.7	389.9	363.1	612.7	1312.1	1165.6	951.1	773.6	680.8
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)