

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: P192376

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192376  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 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: 47372 lumens  
Efficiency: N/A  
Efficacy: 106.5 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

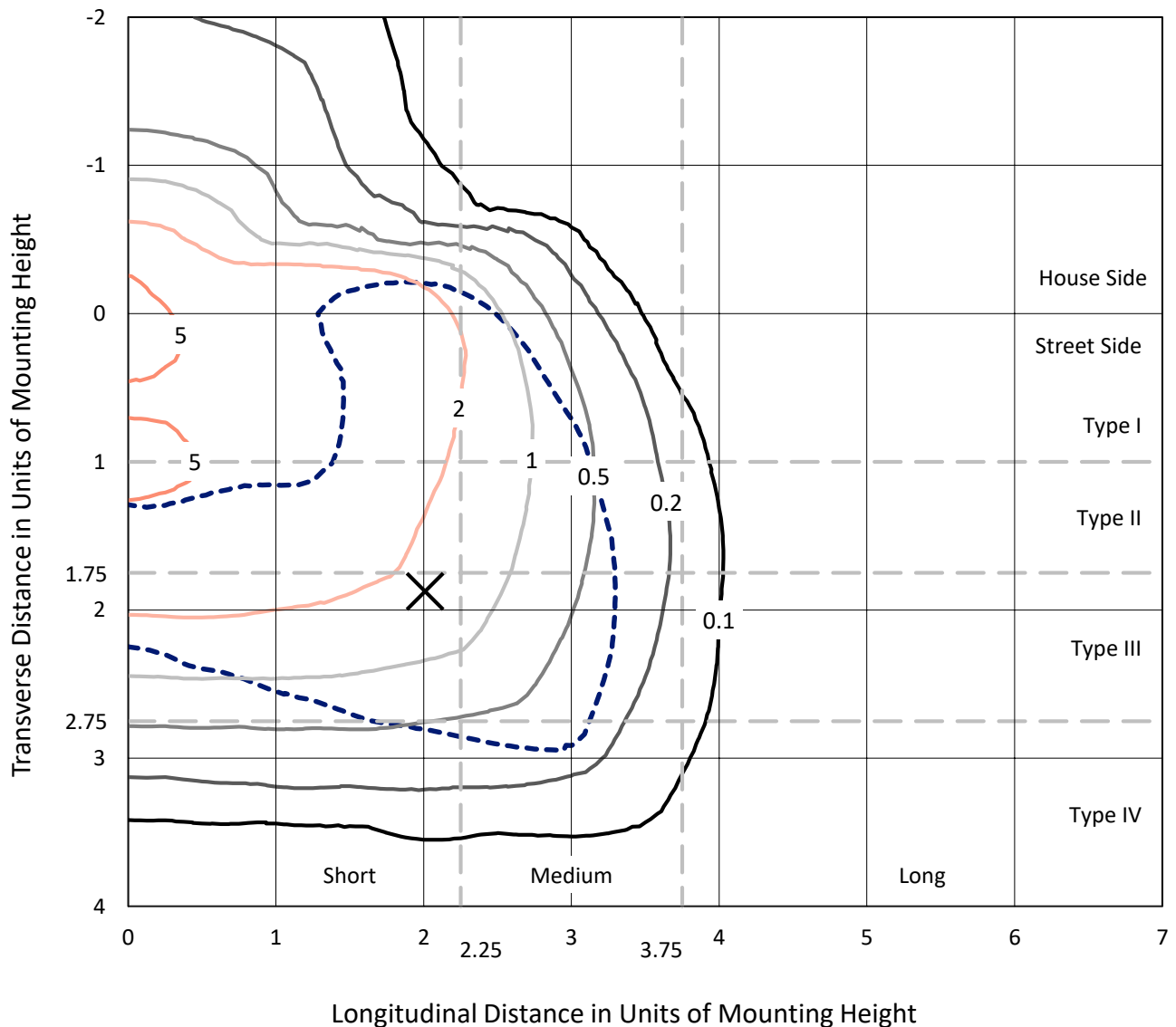
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

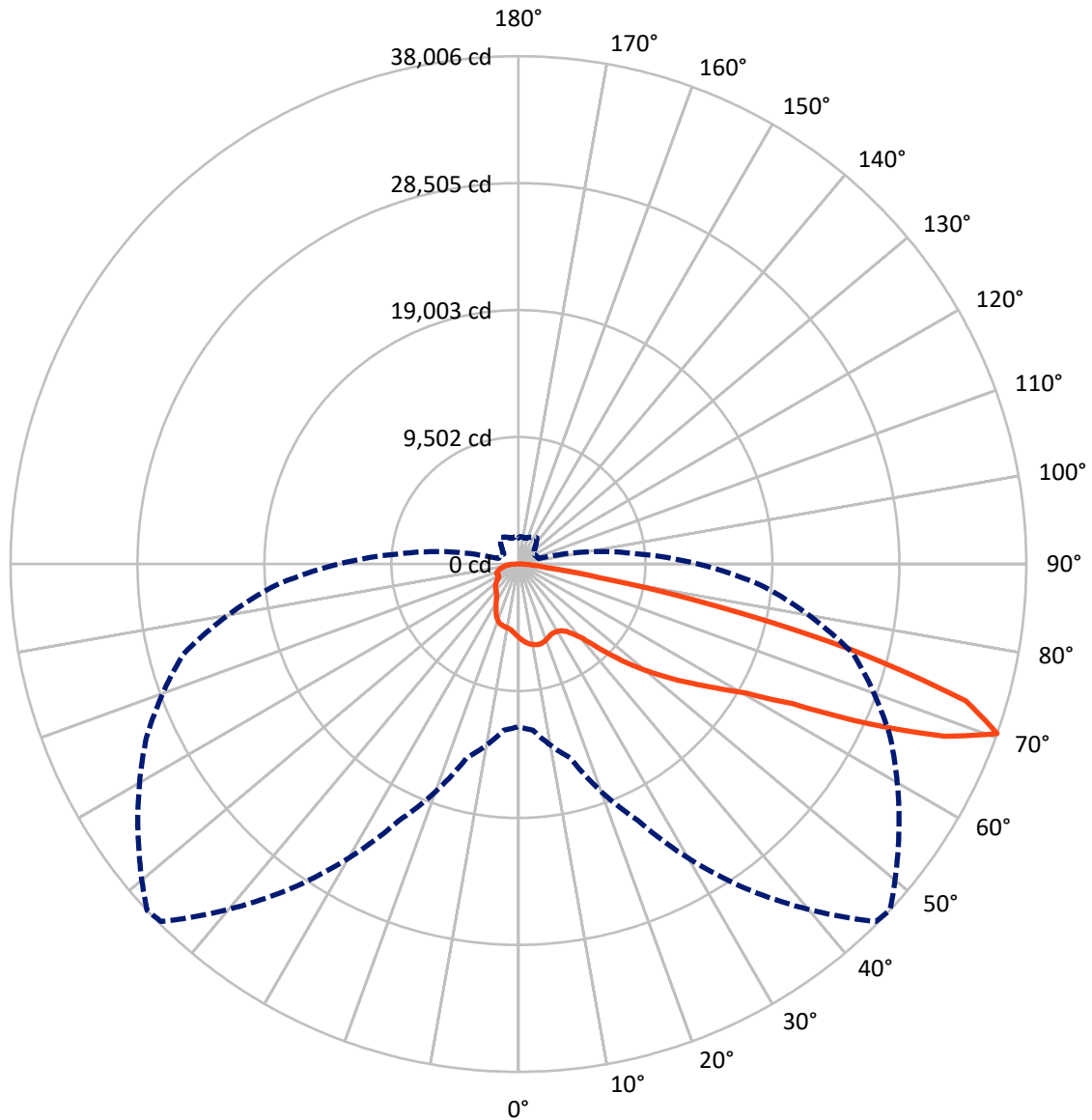
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	9882.7	0.0	9882.7
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	37489.3	0.0	37489.3
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	47372.0	0.0	47372.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	526.7	1.1
10°-20°	1545.1	3.3
20°-30°	2281.7	4.8
30°-40°	3316.4	7.0
40°-50°	5968.4	12.6
50°-60°	10339.6	21.8
60°-70°	14757.6	31.2
70°-80°	7575.8	16.0
80°-90°	1060.6	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°	47372.0	100.0
0°-180°	47372.0	100.0



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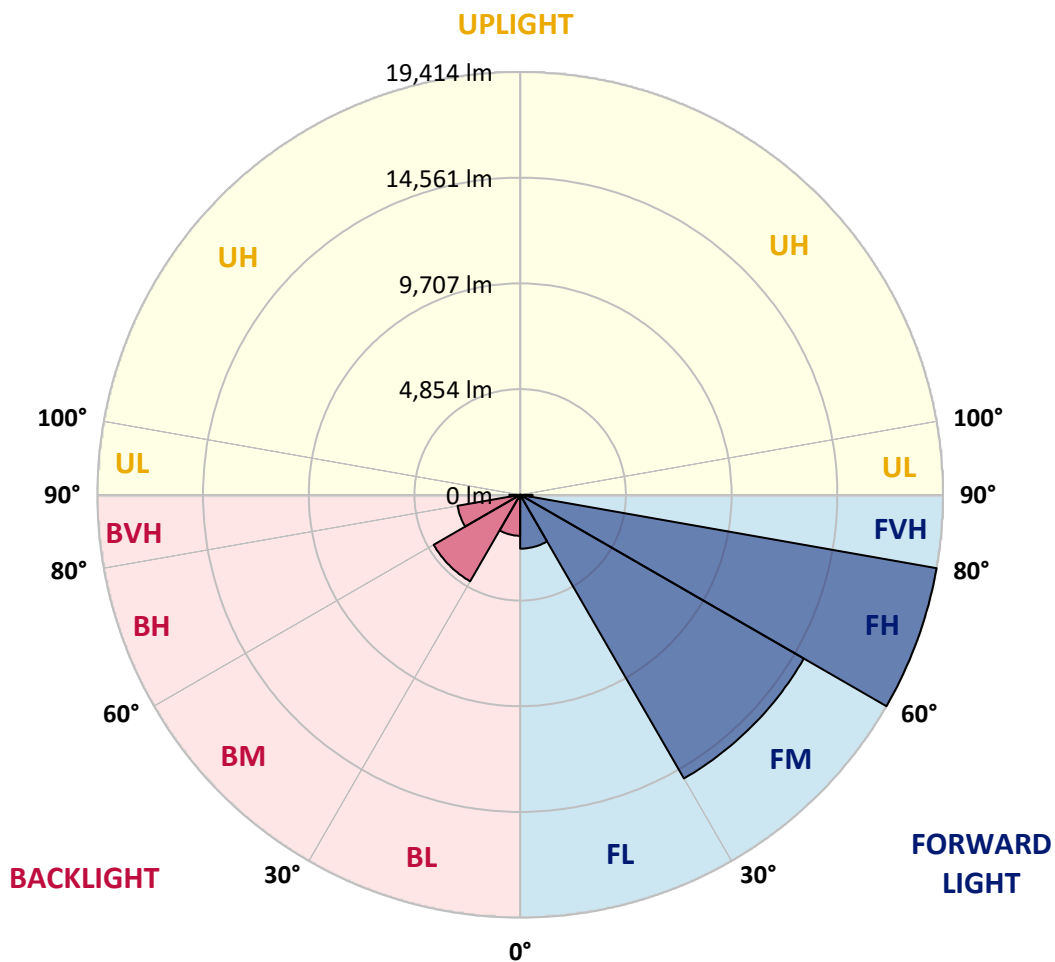
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2471.8	5.2			
FM	(30°-60°)	15037.2	31.7			
FH	(60°-80°)	19414.3	41.0			G5
FVH	(80°-90°)	566.0	1.2			G4/750
BL	(0°-30°)	1881.7	4.0	B3/2500		
BM	(30°-60°)	4587.3	9.7	B3/5000		
BH	(60°-80°)	2919.1	6.2	B4/5000		G4/5000
BVH	(80°-90°)	494.7	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	5496.6	5496.6	5496.6	5496.6	5496.6	5496.6	5496.6	5496.6	5496.6	5496.6	5496.6
2.5°	5819.3	5807.8	5803.1	5793.9	5782.4	5724.8	5713.3	5671.8	5614.2	5554.2	5492.0
5°	6201.9	6199.5	6174.2	6128.1	6054.4	5927.6	5897.6	5796.2	5660.3	5528.9	5397.5
7.5°	6538.3	6517.6	6469.2	6377.0	6247.9	6075.1	6033.6	5893.0	5706.4	5526.6	5349.1
10°	6784.9	6773.4	6667.4	6540.6	6372.4	6181.1	6132.7	5976.0	5770.9	5542.7	5321.5
12.5°	6925.5	6902.5	6780.3	6628.2	6427.7	6241.0	6192.6	6033.6	5803.1	5542.7	5282.3
15°	6916.3	6900.2	6778.0	6612.1	6409.3	6245.6	6201.9	6042.8	5796.2	5519.7	5231.6
17.5°	6731.9	6738.8	6635.1	6471.5	6305.6	6181.1	6141.9	5994.4	5750.1	5473.6	5171.7
20°	6409.3	6441.5	6372.4	6227.2	6135.0	6049.7	6024.4	5899.9	5678.7	5406.7	5107.1
22.5°	6086.6	6116.6	6088.9	5966.8	5953.0	5902.2	5888.4	5798.5	5616.5	5365.3	5068.0
25°	5849.2	5876.9	5872.3	5766.3	5807.8	5805.5	5793.9	5750.1	5602.6	5365.3	5074.9
27.5°	5784.7	5793.9	5784.7	5687.9	5745.5	5791.6	5782.4	5775.5	5644.1	5432.1	5162.5
30°	6006.0	5992.1	5920.7	5724.8	5777.8	5842.3	5833.1	5837.7	5768.6	5607.3	5358.3
32.5°	6888.6	6826.4	6600.6	6049.7	5909.2	5943.7	5948.3	6024.4	6035.9	5876.9	5662.6
35°	8209.2	8140.1	7847.4	6920.9	6317.1	6197.2	6197.2	6312.5	6381.6	6264.1	6135.0
37.5°	9608.1	9532.1	9375.4	8128.6	7174.4	6637.4	6625.9	6706.6	6805.7	6833.3	6865.6
40°	11198.4	11117.7	11161.5	9483.7	8370.5	7400.3	7236.6	7179.0	7446.4	7623.8	7882.0
42.5°	12938.4	12901.5	12917.6	10993.3	9732.6	8541.1	8308.3	8011.0	8333.7	8649.4	9191.0
45°	14549.4	14581.6	14565.5	12608.8	11249.1	9933.1	9686.5	9110.3	9426.1	9967.7	10850.4
47.5°	15959.8	15826.1	16033.6	14374.2	12947.6	11491.1	11186.8	10414.8	10735.1	11403.5	12896.9
50°	17672.2	17653.7	17349.5	16729.6	15001.1	13055.9	12657.2	11763.0	12260.8	13189.6	15475.8
52.5°	19472.1	19137.9	18859.1	18561.8	17179.0	14660.0	14171.4	13106.6	14053.8	15222.3	18619.4
55°	19840.9	19691.1	20036.8	20536.9	19278.5	16326.2	15757.0	14791.3	16072.7	17545.4	22244.6
57.5°	20629.1	20626.8	21341.2	22233.1	21440.3	18093.9	17520.1	16826.4	18342.8	20207.3	26093.4
60°	21161.4	21311.2	22638.7	24369.5	23562.9	20135.9	19608.1	19174.8	20924.1	23182.6	29679.5
62.5°	21440.3	21643.1	23454.6	25236.1	26563.6	23535.2	23007.5	22382.9	24339.6	26446.0	31776.7
65°	20281.1	20679.8	23327.8	25985.1	29190.9	29045.7	28808.3	27711.3	28610.1	29025.0	31018.5
67.5°	17073.0	17480.9	20564.5	25286.8	31066.9	34360.3	34411.0	32537.3	31237.4	29246.2	26079.6
70°	12164.0	12484.4	15035.6	21200.6	29638.0	37833.4	38006.2	34761.3	30714.3	25936.7	18220.7
72.5°	5775.5	5971.4	8386.7	13798.0	23519.1	34664.5	34998.6	31921.9	26116.5	19202.5	9940.0
75°	2122.6	2182.5	2834.7	5870.0	13641.3	25563.3	25957.4	22883.0	17312.6	9559.8	3786.6
77.5°	1272.2	1311.4	1590.2	2477.5	5365.3	14611.6	15194.7	12445.2	7566.2	3558.4	1862.2
80°	889.6	917.3	1140.8	1541.8	2535.1	5568.1	6086.6	5079.5	3014.5	2251.7	1355.1
82.5°	601.5	615.3	802.0	1041.7	1684.7	1988.9	2145.6	2258.6	2032.7	1675.5	859.6
85°	394.1	407.9	543.9	686.8	1071.7	1027.9	1050.9	1329.8	1484.2	1138.5	477.1
87.5°	225.9	235.1	327.3	366.4	525.5	435.6	440.2	700.6	949.5	767.5	290.4
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°	5496.6	5496.6	5496.6	5496.6	5496.6	5496.6	5496.6	5496.6	5496.6	5496.6	5496.6
2.5°	5475.9	5445.9	5379.1	5337.6	5298.4	5289.2	5273.1	5270.8	5268.5	5268.5	5261.6
5°	5353.7	5303.0	5199.3	5141.7	5093.3	5088.7	5086.4	5097.9	5102.5	5107.1	5100.2
7.5°	5275.4	5206.2	5077.2	4994.2	4936.6	4922.8	4945.8	4998.8	5033.4	5047.2	5040.3
10°	5227.0	5141.7	4991.9	4902.0	4853.6	4846.7	4876.7	4938.9	5010.3	5038.0	5035.7
12.5°	5171.7	5074.9	4915.9	4821.4	4793.7	4807.5	4846.7	4904.3	4978.1	5021.9	5024.2
15°	5116.4	5003.4	4839.8	4756.8	4745.3	4763.7	4800.6	4844.4	4902.0	4945.8	4950.4
17.5°	5049.5	4932.0	4768.4	4683.1	4673.9	4683.1	4685.4	4708.4	4745.3	4786.8	4798.3
20°	4978.1	4858.2	4687.7	4602.4	4560.9	4524.1	4482.6	4487.2	4498.7	4540.2	4549.4
22.5°	4927.4	4807.5	4625.5	4507.9	4397.3	4286.7	4203.7	4192.2	4196.8	4231.4	4242.9
25°	4932.0	4805.2	4609.3	4406.5	4164.5	3987.1	3876.4	3858.0	3855.7	3881.1	3897.2
27.5°	5021.9	4895.1	4669.3	4302.8	3911.0	3648.3	3530.7	3516.9	3498.5	3505.4	3523.8
30°	5222.4	5104.8	4814.4	4196.8	3636.8	3316.4	3194.3	3180.4	3155.1	3143.6	3157.4
32.5°	5549.6	5452.8	5026.5	4095.4	3362.5	3032.9	2908.5	2878.5	2862.4	2848.6	2860.1
35°	6093.5	6052.1	5309.9	3984.8	3120.5	2814.0	2701.1	2655.0	2631.9	2657.3	2675.7
37.5°	6946.3	6969.3	5681.0	3811.9	2933.8	2668.8	2574.3	2521.3	2486.7	2507.5	2528.2
40°	8153.9	8170.0	6091.2	3567.6	2772.5	2583.5	2482.1	2433.7	2385.3	2348.5	2346.1
42.5°	9739.5	9575.9	6494.5	3302.6	2585.8	2530.5	2417.6	2357.7	2283.9	2182.5	2161.8
45°	11620.1	11046.3	6801.1	2998.4	2376.1	2466.0	2346.1	2263.2	2147.9	2037.3	2025.8
47.5°	13786.5	12625.0	6950.9	2682.6	2180.2	2371.5	2258.6	2127.2	1982.0	1926.7	1919.8
50°	16432.3	14498.6	7022.3	2376.1	2009.7	2247.0	2131.8	1977.4	1855.3	1843.7	1836.8
52.5°	19444.5	16752.6	7045.4	2124.9	1869.1	2085.7	2028.1	1878.3	1781.5	1790.7	1790.7
55°	22597.2	19080.3	6731.9	1942.8	1740.0	1919.8	1959.0	1839.1	1758.5	1795.3	1809.2
57.5°	25491.9	21143.0	5745.5	1802.2	1617.9	1793.0	1933.6	1876.0	1820.7	1970.5	1979.7
60°	27713.6	22362.2	4291.3	1675.5	1528.0	1749.2	2000.4	2016.6	2030.4	2387.6	2436.0
62.5°	28179.1	21956.5	2950.0	1576.4	1486.5	1786.1	2122.6	2124.9	2108.8	2357.7	2387.6
65°	26042.7	19391.5	2145.6	1521.1	1451.9	1853.0	2226.3	2177.9	2071.9	2260.9	2205.6
67.5°	20682.1	14609.3	1786.1	1479.6	1401.2	1848.3	2336.9	2226.3	2051.2	2214.8	2124.9
70°	13424.7	8833.8	1590.2	1445.0	1341.3	1760.8	2401.5	2221.7	1991.2	2060.4	1954.4
72.5°	6549.9	3950.2	1458.9	1394.3	1279.1	1638.6	2399.2	2180.2	1929.0	1924.4	1866.8
75°	2562.8	1809.2	1339.0	1318.3	1173.1	1500.3	2334.6	2120.3	1855.3	1781.5	1760.8
77.5°	1500.3	1290.6	1186.9	1205.3	1046.3	1362.1	2240.1	2016.6	1753.9	1666.3	1643.2
80°	1092.4	965.7	1011.7	1041.7	894.2	1223.8	2113.4	1889.8	1640.9	1684.7	1652.4
82.5°	700.6	622.3	820.5	850.4	744.4	1083.2	1975.1	1756.2	1481.9	1345.9	1313.7
85°	357.2	394.1	610.7	647.6	573.9	889.6	1806.9	1578.7	1302.1	1120.1	1138.5
87.5°	200.5	269.6	389.5	435.6	405.6	684.5	1465.8	1302.1	1062.5	864.2	760.5
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)