

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: P194006

Luminaire Tested: **GLEON-AF-08-LED-E1-T3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42712 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

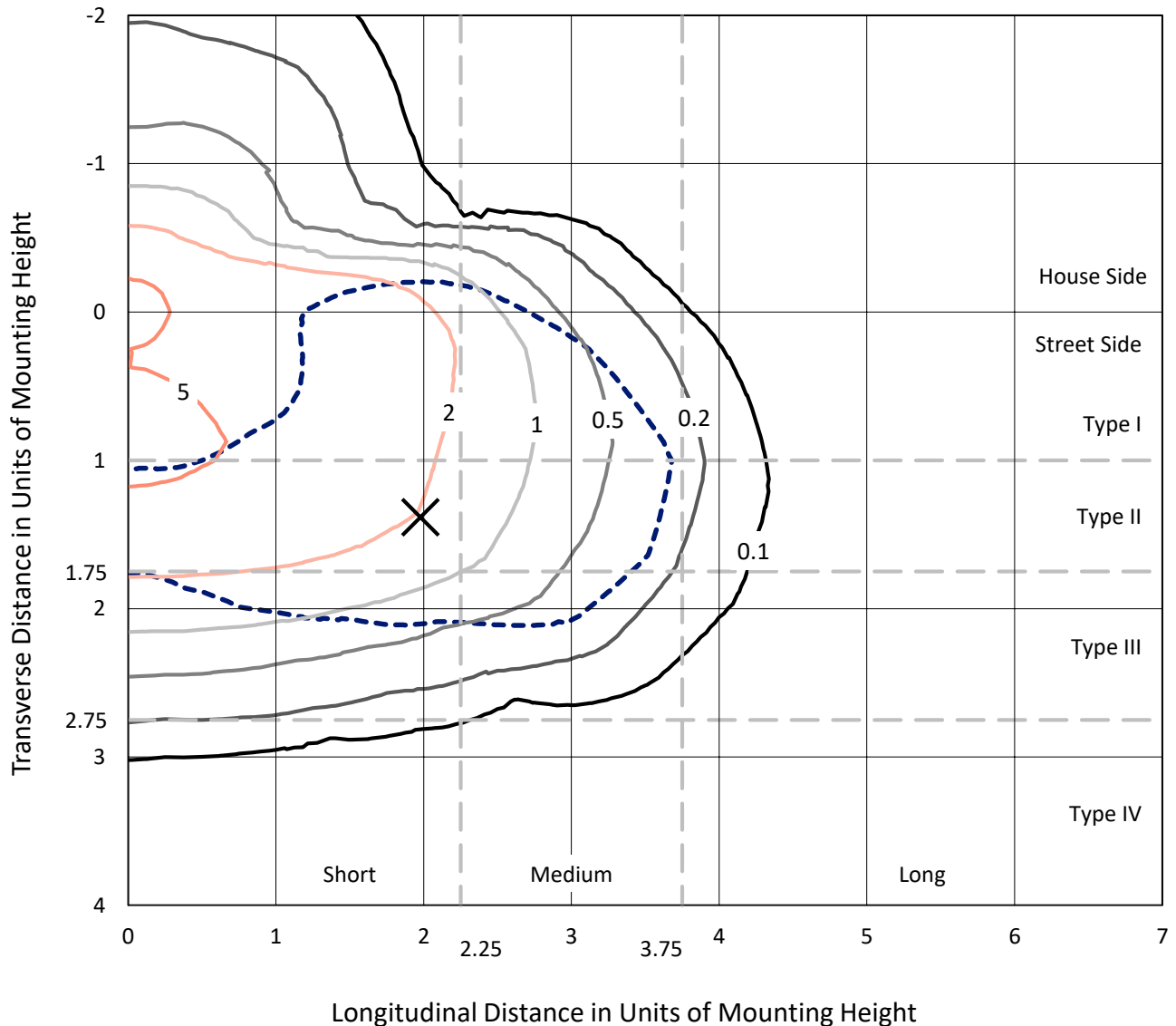
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

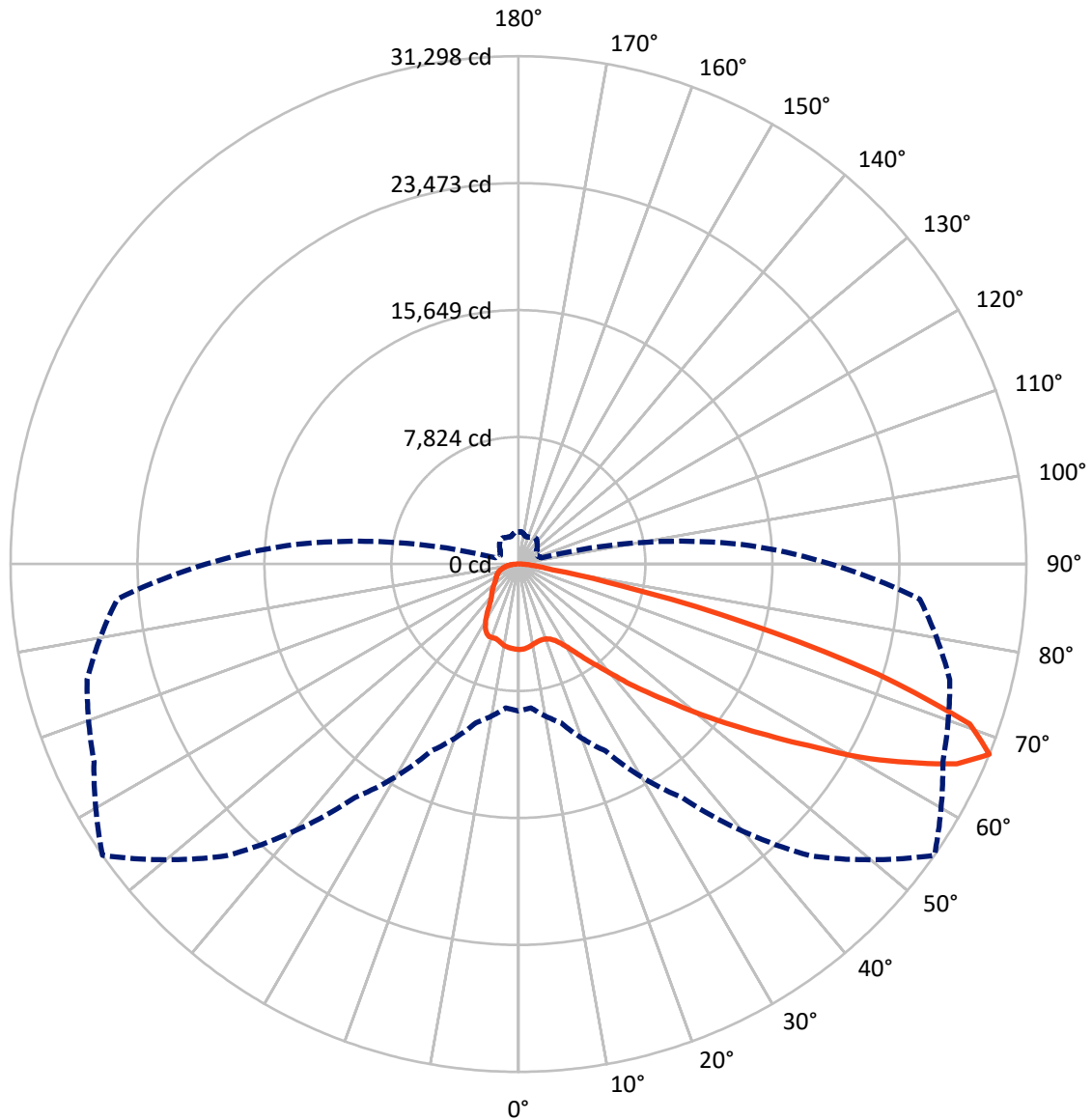
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9226.7	0.0	9226.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	33485.3	0.0	33485.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	42712.0	0.0	42712.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.6	1.2
10°-20°	1392.3	3.3
20°-30°	2332.3	5.5
30°-40°	3835.3	9.0
40°-50°	6455.9	15.1
50°-60°	10161.2	23.8
60°-70°	12126.3	28.4
70°-80°	5207.2	12.2
80°-90°	710.0	1.7
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°	42712.0	100.0
0°-180°	42712.0	100.0



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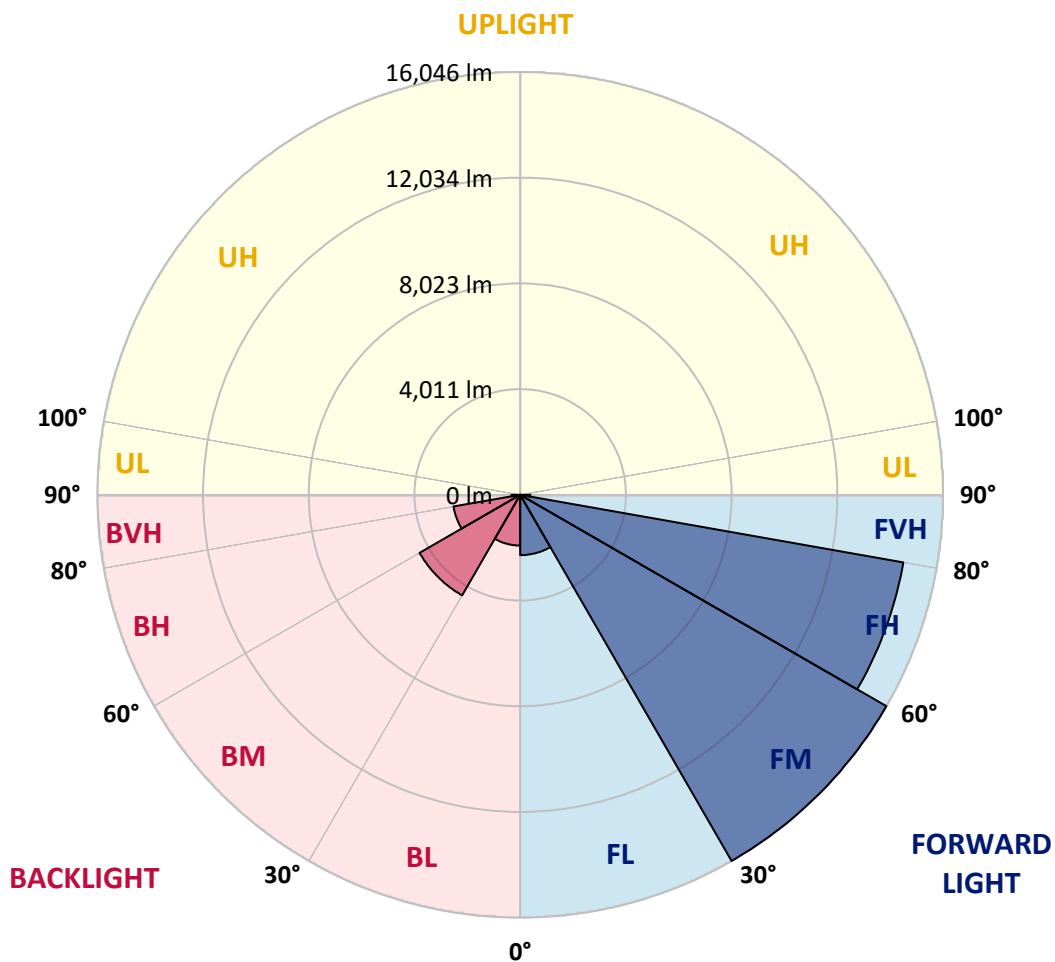
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2289.5	5.4			
FM	(30°-60°)	16045.8	37.6			
FH	(60°-80°)	14765.7	34.6			G5
FVH	(80°-90°)	384.3	0.9			G3/500
BL	(0°-30°)	1926.7	4.5	B3/2500		
BM	(30°-60°)	4406.6	10.3	B3/5000		
BH	(60°-80°)	2567.8	6.0	B4/5000		G4/5000
BVH	(80°-90°)	325.7	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5266.9	5266.9	5266.9	5266.9	5266.9	5266.9	5266.9	5266.9	5266.9	5266.9	5266.9
2.5°	5221.5	5223.5	5227.7	5244.2	5258.6	5254.5	5256.5	5248.3	5246.2	5233.8	5246.2
5°	5155.5	5161.6	5163.7	5190.5	5207.0	5211.2	5205.0	5194.7	5182.3	5169.9	5176.1
7.5°	5004.9	5021.4	5023.4	5060.6	5087.4	5122.4	5124.5	5126.6	5120.4	5112.1	5124.5
10°	4910.0	4914.1	4912.0	4938.8	4959.5	4998.7	5021.4	5060.6	5077.1	5081.2	5089.4
12.5°	4903.8	4899.6	4893.5	4893.5	4887.3	4903.8	4945.0	5000.7	5039.9	5052.3	5062.6
15°	4969.8	4967.7	4947.1	4916.1	4876.9	4864.6	4899.6	4961.5	5013.1	5039.9	5050.2
17.5°	5118.3	5105.9	5072.9	5002.8	4918.2	4885.2	4889.3	4940.9	5000.7	5035.8	5046.1
20°	5390.6	5390.6	5320.5	5188.5	5037.9	4959.5	4922.3	4953.3	5011.0	5058.5	5072.9
22.5°	5861.0	5865.1	5747.5	5530.9	5277.2	5110.1	5017.2	5011.0	5079.1	5132.8	5149.3
25°	6527.4	6510.8	6345.8	6036.4	5650.6	5374.1	5213.2	5176.1	5233.8	5293.7	5314.3
27.5°	7303.0	7243.2	7047.2	6673.8	6174.6	5770.2	5522.7	5462.8	5518.5	5586.6	5607.3
30°	8070.5	8008.6	7775.5	7367.0	6812.0	6300.4	5945.6	5848.6	5927.0	6024.0	6036.4
32.5°	8837.9	8837.9	8578.0	8101.4	7497.0	6933.8	6508.8	6393.3	6523.2	6640.8	6667.6
35°	9756.0	9760.1	9508.4	8934.9	8285.0	7688.8	7220.5	7135.9	7331.9	7414.4	7478.4
37.5°	10884.4	10907.1	10583.2	9890.1	9178.3	8551.2	7994.2	7878.6	8074.6	8299.5	8505.8
40°	12103.7	12132.5	11775.6	10921.6	10209.8	9553.8	8951.4	8743.0	9069.0	9498.1	9764.2
42.5°	13267.2	13415.7	13071.2	12192.4	11427.0	10748.3	10137.6	9834.4	10242.8	10890.6	11121.7
45°	14948.5	15055.8	14455.5	13659.2	12939.2	12180.0	11371.3	11051.5	11623.0	12439.9	12487.4
47.5°	16068.8	15988.3	15683.0	15187.9	14731.9	14022.3	12805.1	12454.4	13213.6	14174.9	13908.8
50°	16665.0	16689.7	16648.5	16677.3	16693.9	16248.2	14562.8	14082.1	14987.7	16149.2	15536.5
52.5°	17222.0	17056.9	17193.1	17869.8	18686.7	18521.7	16475.2	15973.9	16889.8	18340.1	17257.1
55°	17209.6	16957.9	17401.5	18595.9	20368.1	20557.9	18622.8	18045.1	18901.3	20689.9	19080.7
57.5°	16601.0	16613.4	17296.2	18860.0	21539.9	22472.3	21114.9	20248.4	21034.4	23070.6	20745.6
60°	15763.4	15876.9	16861.0	18816.7	22478.5	24042.3	24172.2	22622.9	23124.2	25234.7	22123.7
62.5°	14412.2	14531.8	15889.3	18366.9	22336.2	25554.5	26936.7	25317.2	25309.0	26546.8	22528.0
65°	12281.1	12246.0	13671.5	16685.6	21141.7	26672.6	29682.5	27646.4	26955.2	26567.4	21715.2
67.5°	9056.6	8899.8	10123.2	12708.1	17572.7	25420.4	31297.9	28859.4	27516.4	24820.0	19231.3
70°	4699.5	4542.7	5533.0	7420.6	11557.0	19839.9	29509.2	28232.2	26276.5	20805.4	15066.1
72.5°	2009.4	1982.5	2384.8	3255.4	5590.7	11443.5	23138.7	24436.3	22546.6	15501.4	10358.4
75°	1351.3	1343.0	1493.6	1774.2	2514.8	4643.8	14480.2	17345.8	16495.8	9611.5	5825.9
77.5°	1060.4	1050.1	1138.8	1274.9	1629.8	1831.9	6426.3	9312.4	8619.2	4183.8	2549.9
80°	829.3	821.1	876.8	951.0	1171.8	1155.3	2114.6	3705.2	2867.6	1603.0	1239.9
82.5°	654.0	654.0	699.4	701.4	831.4	788.1	1103.7	1631.8	1431.7	934.5	759.2
85°	598.3	598.3	645.7	524.0	542.6	497.2	684.9	967.6	907.7	383.7	330.1
87.5°	301.2	292.9	542.6	464.2	295.0	264.1	334.2	468.3	503.4	212.5	165.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5266.9	5266.9	5266.9	5266.9	5266.9	5266.9	5266.9	5266.9	5266.9	5266.9
2.5°	5242.1	5240.0	5244.2	5246.2	5262.7	5285.4	5295.7	5310.2	5318.4	5314.3
5°	5180.2	5184.3	5200.8	5213.2	5242.1	5279.2	5299.9	5316.4	5330.8	5324.6
7.5°	5128.6	5138.9	5163.7	5174.0	5190.5	5200.8	5198.8	5205.0	5217.3	5202.9
10°	5099.8	5112.1	5130.7	5116.3	5077.1	5021.4	4969.8	4943.0	4951.2	4940.9
12.5°	5070.9	5087.4	5072.9	5004.9	4895.5	4823.3	4784.1	4788.2	4806.8	4810.9
15°	5054.4	5060.6	4998.7	4870.8	4759.4	4749.0	4769.7	4765.5	4767.6	4767.6
17.5°	5054.4	5037.9	4922.3	4794.4	4747.0	4728.4	4664.5	4584.0	4548.9	4536.6
20°	5081.2	5037.9	4897.6	4813.0	4709.8	4551.0	4381.8	4233.3	4167.3	4148.7
22.5°	5161.6	5087.4	4967.7	4821.2	4528.3	4262.2	3994.0	3816.6	3696.9	3676.3
25°	5324.6	5242.1	5105.9	4711.9	4239.5	3859.9	3554.6	3356.5	3236.9	3220.4
27.5°	5609.3	5555.7	5180.2	4470.5	3855.8	3449.3	3166.7	3014.1	2925.3	2919.2
30°	6038.4	6011.6	5143.1	4113.6	3383.3	3051.2	2915.0	2826.3	2760.3	2758.2
32.5°	6723.3	6506.7	5021.4	3678.3	2952.2	2768.6	2712.9	2659.2	2607.6	2607.6
35°	7604.2	6906.9	4790.3	3212.1	2690.2	2611.8	2541.6	2457.0	2389.0	2384.8
37.5°	8639.9	7154.5	4375.6	2836.6	2566.4	2506.6	2403.4	2277.6	2157.9	2137.3
40°	9685.8	7228.8	3791.8	2605.6	2488.0	2401.3	2275.5	2127.0	2011.4	2005.2
42.5°	10645.1	7086.4	3172.9	2446.7	2409.6	2294.1	2162.0	2030.0	1939.2	1937.2
45°	11449.7	6717.1	2653.0	2296.1	2327.1	2197.1	2079.5	1972.2	1902.1	1887.7
47.5°	12206.8	6195.2	2287.9	2137.3	2244.6	2143.5	2044.4	1943.4	1875.3	1865.0
50°	13085.7	5632.0	2032.1	1982.5	2172.3	2124.9	2073.3	1968.1	1854.6	1842.3
52.5°	14150.2	5145.1	1831.9	1846.4	2116.6	2149.7	2147.6	2038.3	1840.2	1823.7
55°	15338.5	4604.6	1681.4	1735.0	2094.0	2195.0	2166.2	2104.3	1852.6	1827.8
57.5°	16508.2	3973.4	1576.1	1650.4	2060.9	2190.9	2077.4	1988.7	1881.5	1846.4
60°	17385.0	3125.5	1495.7	1576.1	1988.7	2122.8	1980.5	1862.9	1875.3	1848.5
62.5°	17442.7	2415.8	1398.7	1512.2	1879.4	2054.8	1916.5	1807.2	1902.1	1877.3
65°	16417.4	1825.8	1305.9	1435.9	1761.8	2011.4	1854.6	1776.2	1957.8	1931.0
67.5°	13822.1	1468.9	1227.5	1357.5	1644.2	1920.7	1798.9	1747.4	2007.3	1959.9
70°	9978.8	1252.2	1151.2	1262.6	1539.0	1817.5	1749.4	1695.8	1873.2	1798.9
72.5°	6143.6	1085.1	1064.5	1136.7	1458.5	1710.2	1675.2	1598.8	1687.5	1627.7
75°	3067.7	940.7	967.6	1012.9	1345.1	1588.5	1551.4	1475.0	1487.4	1475.0
77.5°	1468.9	804.6	854.1	889.2	1198.6	1450.3	1411.1	1332.7	1318.3	1320.3
80°	930.4	672.5	720.0	744.7	1070.7	1289.4	1250.2	1171.8	1336.8	1239.9
82.5°	581.8	546.7	559.1	604.5	932.5	1122.3	1070.7	1000.6	1204.8	953.1
85°	321.8	381.7	398.2	437.4	717.9	938.7	887.1	798.4	715.9	703.5
87.5°	191.9	226.9	233.1	262.0	482.7	678.7	600.3	569.4	472.4	470.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)