

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: P192255

Luminaire Tested: **GLEON-AF-07-LED-E1-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192255
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-07-LED-E1-T3-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42111 lumens
Efficiency: N/A
Efficacy: 107.7 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): 391
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

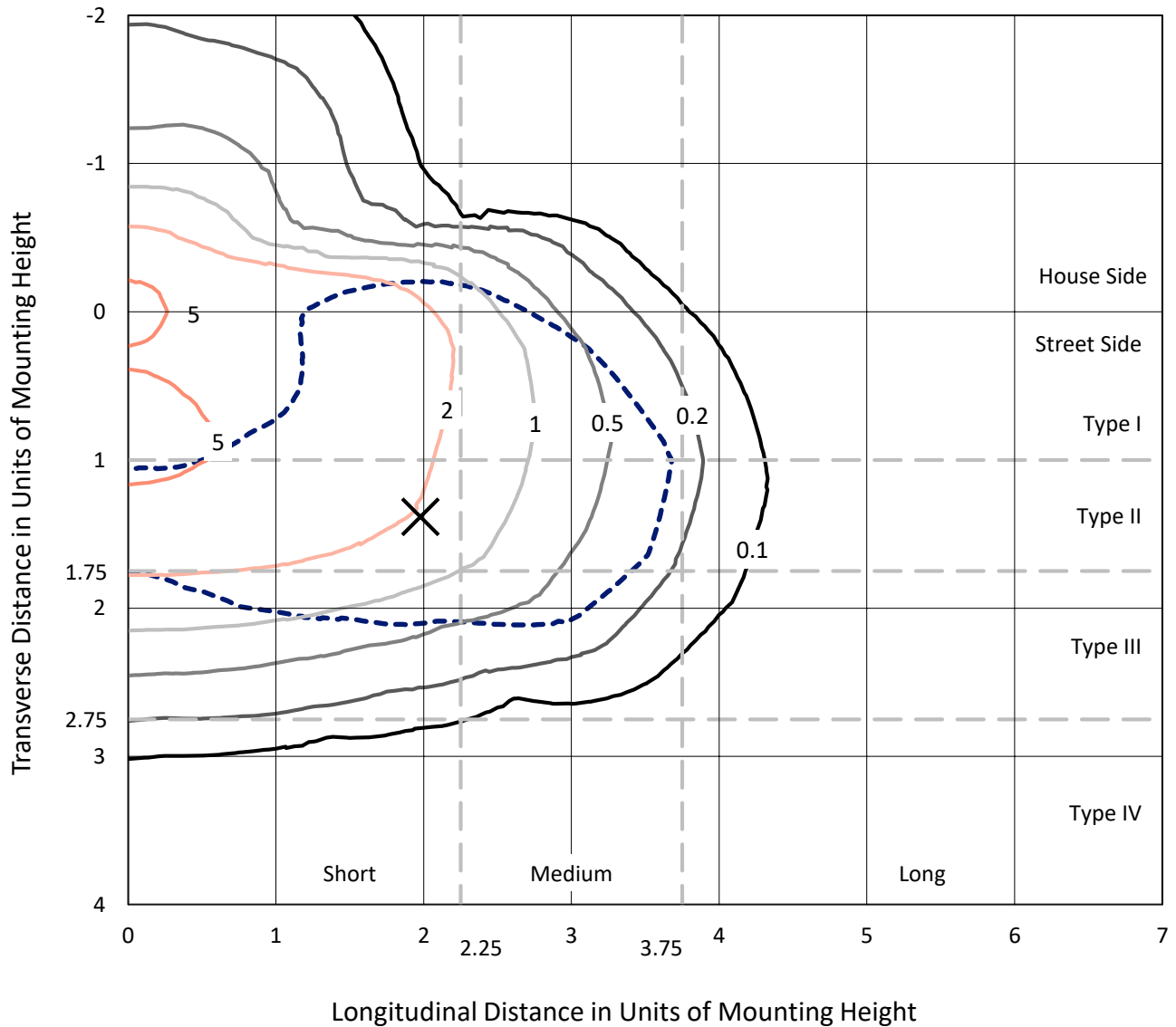


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

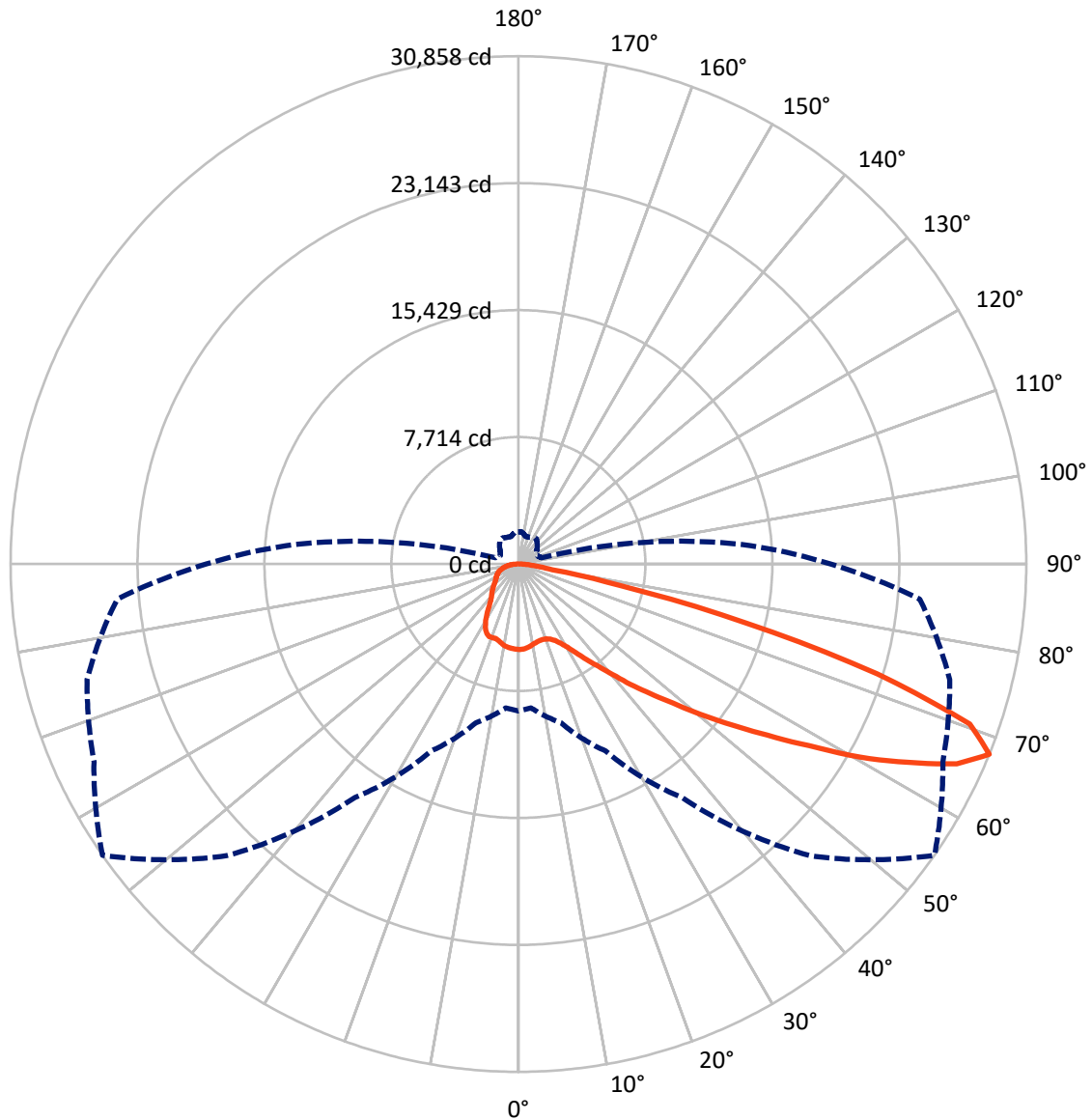


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - Full Cutoff

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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	9096.9	0.0	9096.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	33014.1	0.0	33014.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	42111.0	0.0	42111.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.7	1.2
10°-20°	1372.7	3.3
20°-30°	2299.5	5.5
30°-40°	3781.3	9.0
40°-50°	6365.1	15.1
50°-60°	10018.2	23.8
60°-70°	11955.6	28.4
70°-80°	5134.0	12.2
80°-90°	700.0	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°	42111.0	100.0
0°-180°	42111.0	100.0



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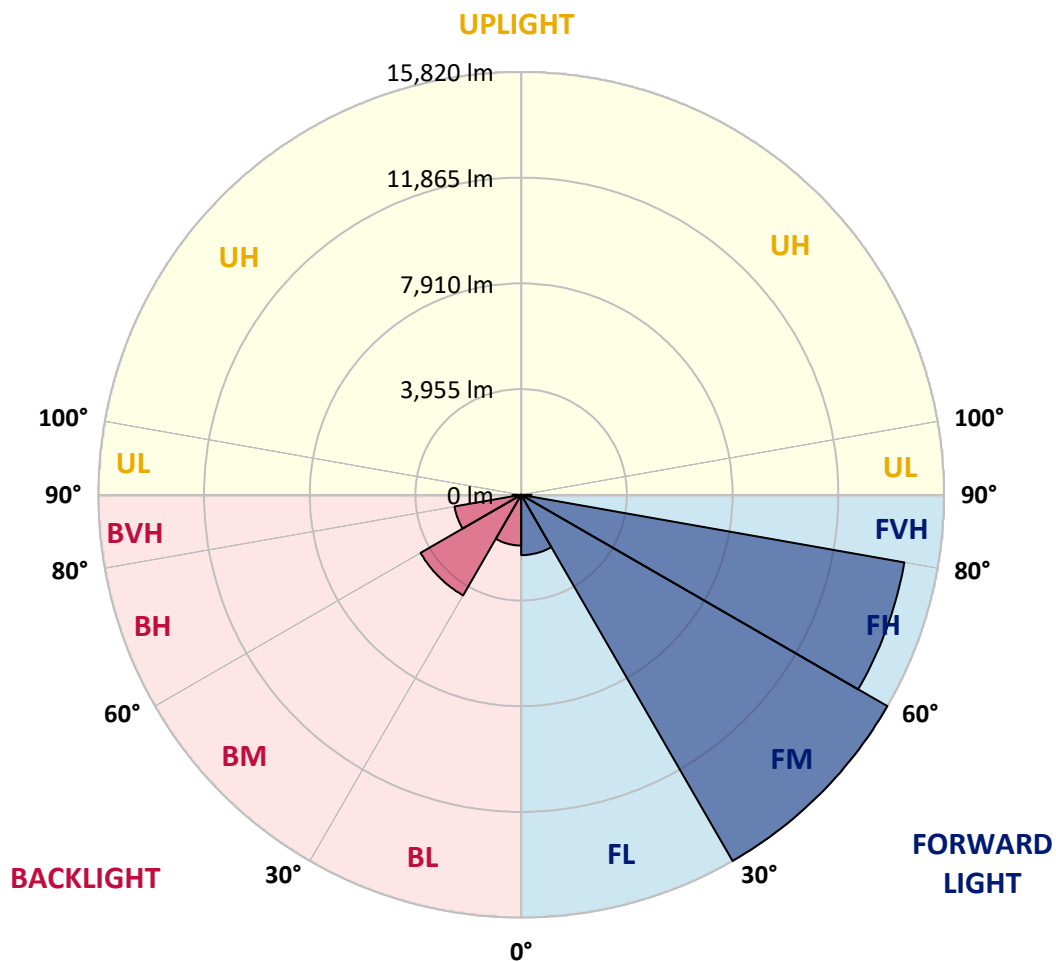
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2257.2	5.4			
FM	(30°-60°)	15820.0	37.6			
FH	(60°-80°)	14558.0	34.6			G5
FVH	(80°-90°)	378.9	0.9			G3/500
BL	(0°-30°)	1899.6	4.5	B3/2500		
BM	(30°-60°)	4344.6	10.3	B3/5000		
BH	(60°-80°)	2531.6	6.0	B4/5000		G4/5000
BVH	(80°-90°)	321.1	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°	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7
2.5°	5148.0	5150.0	5154.1	5170.4	5184.6	5180.5	5182.6	5174.4	5172.4	5160.2	5172.4
5°	5082.9	5089.0	5091.0	5117.5	5133.8	5137.8	5131.7	5121.6	5109.4	5097.1	5103.3
7.5°	4934.4	4950.7	4952.7	4989.3	5015.8	5050.4	5052.4	5054.4	5048.3	5040.2	5052.4
10°	4840.9	4844.9	4842.9	4869.3	4889.7	4928.3	4950.7	4989.3	5005.6	5009.7	5017.8
12.5°	4834.8	4830.7	4824.6	4824.6	4818.5	4834.8	4875.4	4930.4	4969.0	4981.2	4991.4
15°	4899.9	4897.8	4877.5	4847.0	4808.3	4796.1	4830.7	4891.7	4942.6	4969.0	4979.2
17.5°	5046.3	5034.1	5001.6	4932.4	4849.0	4816.5	4820.5	4871.4	4930.4	4964.9	4975.1
20°	5314.8	5314.8	5245.6	5115.5	4967.0	4889.7	4853.1	4883.6	4940.5	4987.3	5001.6
22.5°	5778.5	5782.6	5666.7	5453.1	5202.9	5038.2	4946.6	4940.5	5007.7	5060.5	5076.8
25°	6435.5	6419.2	6256.5	5951.4	5571.1	5298.5	5139.9	5103.3	5160.2	5219.2	5239.5
27.5°	7200.3	7141.3	6948.1	6579.9	6087.7	5689.0	5445.0	5386.0	5440.9	5508.0	5528.4
30°	7956.9	7895.9	7666.1	7263.3	6716.2	6211.8	5861.9	5766.3	5843.6	5939.2	5951.4
32.5°	8713.6	8713.6	8457.3	7987.4	7391.5	6836.2	6417.2	6303.3	6431.4	6547.4	6573.8
35°	9618.7	9622.8	9374.6	8809.2	8168.5	7580.6	7118.9	7035.5	7228.8	7310.1	7373.2
37.5°	10731.3	10753.6	10434.3	9750.9	9049.2	8430.8	7881.7	7767.8	7961.0	8182.7	8386.1
40°	11933.3	11961.8	11609.9	10767.9	10066.2	9419.4	8825.4	8620.0	8941.4	9364.4	9626.8
42.5°	13080.5	13227.0	12887.3	12020.8	11266.2	10597.0	9995.0	9696.0	10098.7	10737.4	10965.2
45°	14738.2	14844.0	14252.1	13467.0	12757.1	12008.6	11211.3	10896.0	11459.4	12264.9	12311.7
47.5°	15842.7	15763.3	15462.3	14974.1	14524.6	13824.9	12624.9	12279.1	13027.6	13975.5	13713.1
50°	16430.5	16454.9	16414.2	16442.7	16459.0	16019.6	14357.9	13883.9	14776.9	15922.0	15317.9
52.5°	16979.6	16816.9	16951.2	17618.3	18423.8	18261.1	16243.3	15749.1	16652.2	18082.1	17014.2
55°	16967.4	16719.3	17156.6	18334.3	20081.5	20268.6	18360.7	17791.2	18635.3	20398.8	18812.3
57.5°	16367.4	16379.6	17052.9	18594.6	21236.8	22156.1	20817.8	19963.5	20738.4	22746.0	20453.7
60°	15541.6	15653.5	16623.7	18551.9	22162.2	23704.0	23832.1	22304.6	22798.9	24879.6	21812.4
62.5°	14209.4	14327.3	15665.7	18108.5	22021.9	25194.9	26557.7	24961.0	24952.8	26173.2	22211.0
65°	12108.3	12073.7	13479.2	16450.8	20844.2	26297.3	29264.9	27257.3	26576.0	26193.6	21409.7
67.5°	8929.2	8774.6	9980.7	12529.3	17325.4	25062.7	30857.5	28453.3	27129.2	24470.8	18960.7
70°	4633.4	4478.8	5455.1	7316.2	11394.3	19560.8	29094.0	27835.0	25906.8	20512.7	14854.1
72.5°	1981.1	1954.7	2351.3	3209.6	5512.1	11282.5	22813.1	24092.5	22229.3	15283.3	10212.6
75°	1332.3	1324.1	1472.6	1749.2	2479.4	4578.5	14276.5	17101.7	16263.7	9476.3	5744.0
77.5°	1045.5	1035.3	1122.8	1257.0	1606.8	1806.2	6335.8	9181.4	8498.0	4124.9	2514.0
80°	817.7	809.5	864.4	937.7	1155.3	1139.0	2084.8	3653.0	2827.2	1580.4	1222.4
82.5°	644.8	644.8	689.5	691.6	819.7	777.0	1088.2	1608.9	1411.6	921.4	748.5
85°	589.9	589.9	636.6	516.6	534.9	490.2	675.3	953.9	895.0	378.3	325.4
87.5°	297.0	288.8	534.9	457.6	290.9	260.3	329.5	461.7	496.3	209.5	162.7
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°	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7	5192.7
2.5°	5168.3	5166.3	5170.4	5172.4	5188.7	5211.1	5221.2	5235.5	5243.6	5239.5
5°	5107.3	5111.4	5127.7	5139.9	5168.3	5205.0	5225.3	5241.6	5255.8	5249.7
7.5°	5056.5	5066.6	5091.0	5101.2	5117.5	5127.7	5125.6	5131.7	5143.9	5129.7
10°	5028.0	5040.2	5058.5	5044.3	5005.6	4950.7	4899.9	4873.4	4881.5	4871.4
12.5°	4999.5	5015.8	5001.6	4934.4	4826.6	4755.4	4716.8	4720.9	4739.2	4743.2
15°	4983.2	4989.3	4928.3	4802.2	4692.4	4682.2	4702.6	4698.5	4700.5	4700.5
17.5°	4983.2	4967.0	4853.1	4727.0	4680.2	4661.9	4598.8	4519.5	4484.9	4472.7
20°	5009.7	4967.0	4828.7	4745.3	4643.6	4487.0	4320.2	4173.7	4108.6	4090.3
22.5°	5089.0	5015.8	4897.8	4753.4	4464.6	4202.2	3937.8	3762.9	3644.9	3624.5
25°	5249.7	5168.3	5034.1	4645.6	4179.8	3805.6	3504.5	3309.3	3191.3	3175.0
27.5°	5530.4	5477.5	5107.3	4407.6	3801.5	3400.8	3122.2	2971.6	2884.2	2878.1
30°	5953.5	5927.0	5070.7	4055.8	3335.7	3008.3	2874.0	2786.6	2721.5	2719.4
32.5°	6628.7	6415.2	4950.7	3626.6	2910.6	2729.6	2674.7	2621.8	2570.9	2570.9
35°	7497.2	6809.8	4722.9	3166.9	2652.3	2575.0	2505.9	2422.5	2355.3	2351.3
37.5°	8518.3	7053.8	4314.1	2796.7	2530.3	2471.3	2369.6	2245.5	2127.5	2107.2
40°	9549.5	7127.1	3738.5	2568.9	2453.0	2367.6	2243.5	2097.0	1983.1	1977.0
42.5°	10495.3	6986.7	3128.3	2412.3	2375.7	2261.8	2131.6	2001.4	1911.9	1909.9
45°	11288.6	6622.6	2615.7	2263.8	2294.3	2166.2	2050.2	1944.5	1875.3	1861.1
47.5°	12035.0	6108.0	2255.7	2107.2	2213.0	2113.3	2015.7	1916.0	1848.9	1838.7
50°	12901.5	5552.8	2003.5	1954.7	2141.8	2095.0	2044.1	1940.4	1828.5	1816.3
52.5°	13951.1	5072.7	1806.2	1820.4	2086.9	2119.4	2117.4	2009.6	1814.3	1798.0
55°	15122.6	4539.8	1657.7	1710.6	2064.5	2164.2	2135.7	2074.7	1826.5	1802.1
57.5°	16275.9	3917.4	1554.0	1627.2	2031.9	2160.1	2048.2	1960.8	1855.0	1820.4
60°	17140.3	3081.5	1474.6	1554.0	1960.8	2093.0	1952.6	1836.7	1848.9	1822.4
62.5°	17197.3	2381.8	1379.0	1490.9	1853.0	2025.8	1889.6	1781.8	1875.3	1850.9
65°	16186.4	1800.1	1287.5	1415.6	1737.0	1983.1	1828.5	1751.3	1930.2	1903.8
67.5°	13627.7	1448.2	1210.2	1338.4	1621.1	1893.6	1773.6	1722.8	1979.1	1932.3
70°	9838.4	1234.6	1135.0	1244.8	1517.3	1791.9	1724.8	1671.9	1846.9	1773.6
72.5°	6057.2	1069.9	1049.5	1120.7	1438.0	1686.2	1651.6	1576.3	1663.8	1604.8
75°	3024.5	927.5	953.9	998.7	1326.2	1566.2	1529.6	1454.3	1466.5	1454.3
77.5°	1448.2	793.3	842.1	876.6	1181.7	1429.9	1391.2	1313.9	1299.7	1301.7
80°	917.3	663.1	709.9	734.3	1055.6	1271.2	1232.6	1155.3	1318.0	1222.4
82.5°	573.6	539.0	551.2	596.0	919.4	1106.5	1055.6	986.5	1187.8	939.7
85°	317.3	376.3	392.6	431.2	707.8	925.5	874.6	787.1	705.8	693.6
87.5°	189.2	223.7	229.8	258.3	476.0	669.2	591.9	561.4	465.8	463.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)