

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: P269585

Luminaire Tested: **GLEON-AF-08-LED-E1-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269585
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-T3-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41454.8 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

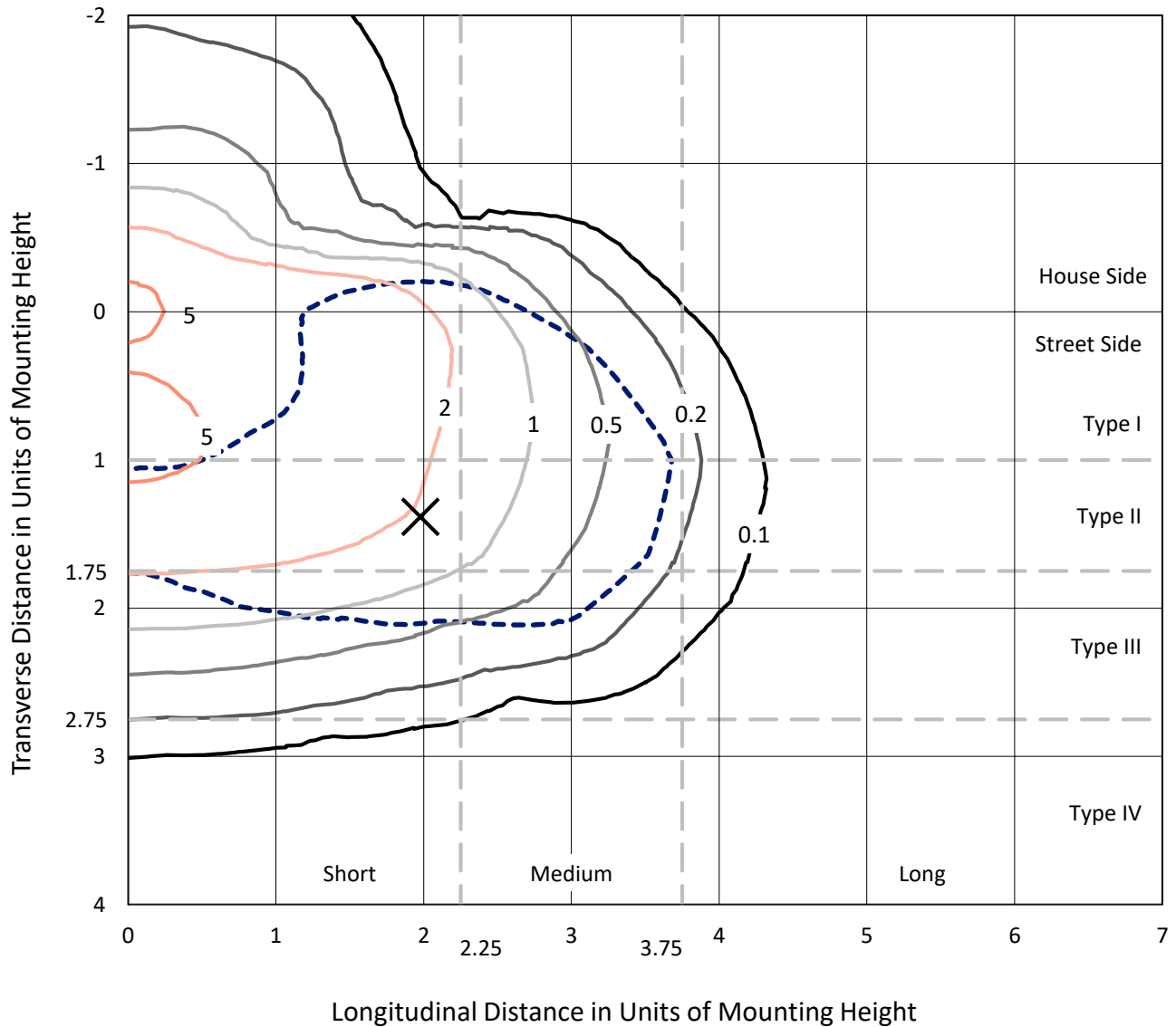
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P269585
 CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

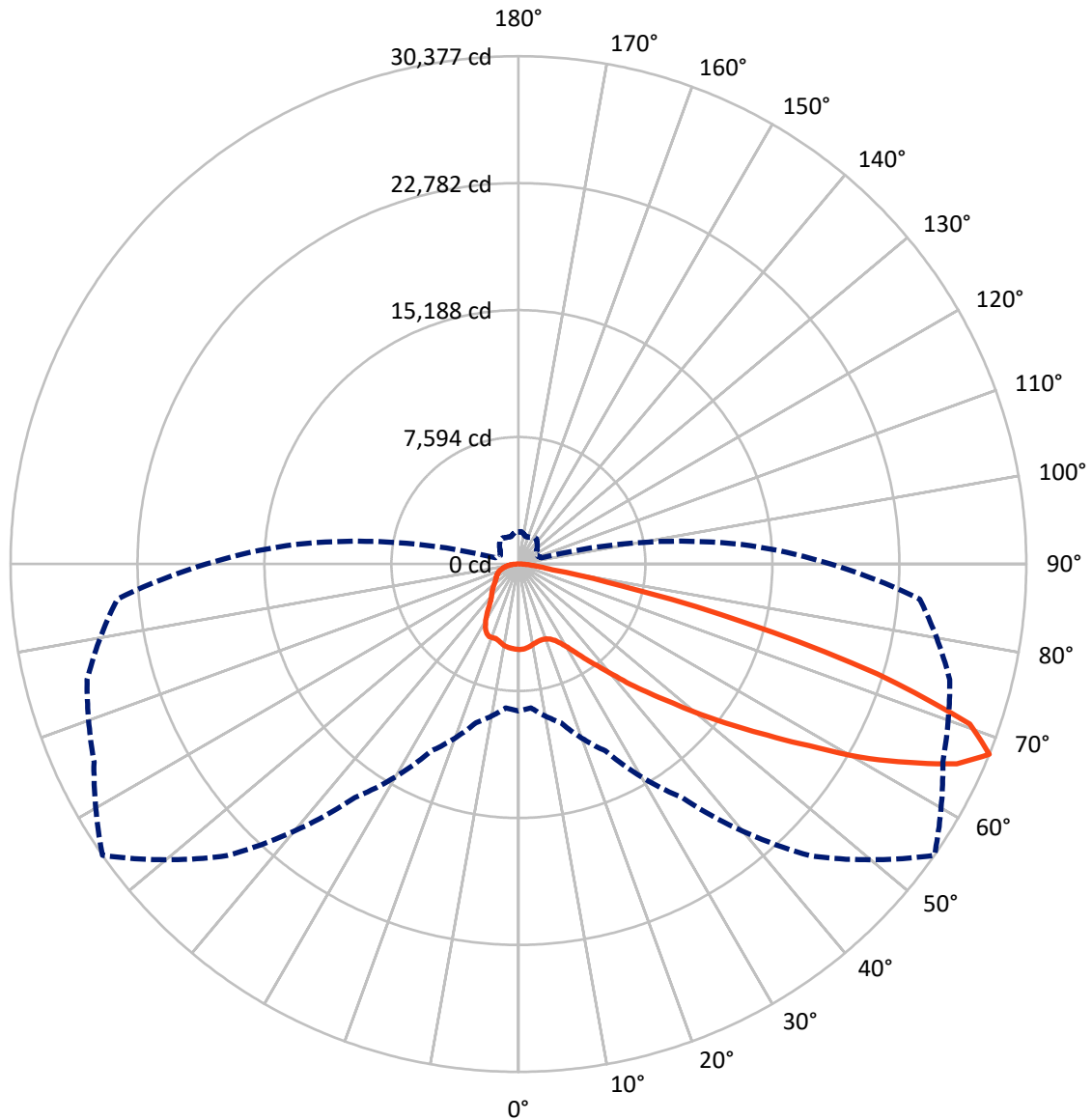


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P269585

CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-7027

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8955.1	0.0	8955.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	32499.7	0.0	32499.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	41454.8	0.0	41454.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.1	1.2
10°-20°	1351.3	3.3
20°-30°	2263.6	5.5
30°-40°	3722.4	9.0
40°-50°	6265.9	15.1
50°-60°	9862.1	23.8
60°-70°	11769.3	28.4
70°-80°	5054.0	12.2
80°-90°	689.1	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°	41454.8	100.0
0°-180°	41454.8	100.0



REPORT NUMBER: P269585

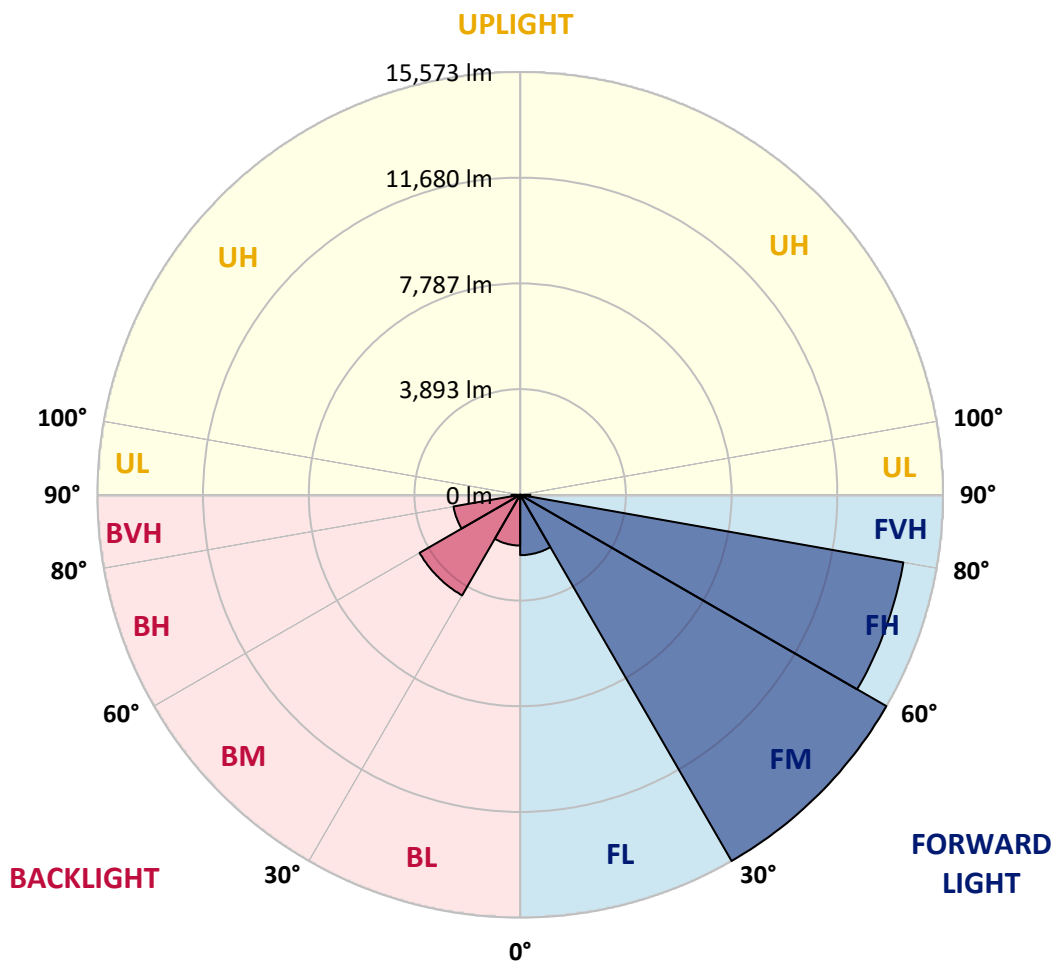
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2222.1	5.4			
FM	(30°-60°)	15573.5	37.6			
FH	(60°-80°)	14331.1	34.6			G5
FVH	(80°-90°)	373.0	0.9			G3/500
BL	(0°-30°)	1870.0	4.5	B3/2500		
BM	(30°-60°)	4276.9	10.3	B3/5000		
BH	(60°-80°)	2492.2	6.0	B3/2500		G3/2500
BVH	(80°-90°)	316.1	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P269585

CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5111.9	5111.9	5111.9	5111.9	5111.9	5111.9	5111.9	5111.9	5111.9	5111.9	5111.9
2.5°	5067.8	5069.8	5073.7	5089.7	5103.8	5099.8	5101.8	5093.7	5091.9	5079.7	5091.9
5°	5003.6	5009.7	5011.7	5037.8	5053.8	5057.7	5051.8	5041.7	5029.7	5017.8	5023.7
7.5°	4857.6	4873.6	4875.6	4911.7	4937.7	4971.7	4973.6	4975.7	4969.7	4961.7	4973.6
10°	4765.5	4769.5	4767.5	4793.4	4813.5	4851.6	4873.6	4911.7	4927.7	4931.6	4939.6
12.5°	4759.4	4755.4	4749.3	4749.3	4743.4	4759.4	4799.5	4853.5	4891.6	4903.6	4913.5
15°	4823.4	4821.6	4801.5	4771.4	4733.3	4721.4	4755.4	4815.5	4865.6	4891.6	4901.6
17.5°	4967.6	4955.7	4923.6	4855.6	4773.5	4741.4	4745.4	4795.5	4853.5	4887.6	4897.6
20°	5232.0	5232.0	5163.8	5035.8	4889.6	4813.5	4777.5	4807.5	4863.6	4909.5	4923.6
22.5°	5688.4	5692.5	5578.4	5368.1	5121.9	4959.6	4869.5	4863.6	4929.5	4981.7	4997.7
25°	6335.2	6319.1	6159.0	5858.7	5484.2	5216.0	5059.8	5023.7	5079.7	5137.9	5157.9
27.5°	7088.0	7030.0	6839.9	6477.4	5992.9	5600.5	5360.1	5302.1	5356.1	5422.2	5442.2
30°	7833.0	7772.9	7546.7	7150.1	6611.5	6115.0	5770.6	5676.5	5752.6	5846.7	5858.7
32.5°	8577.7	8577.7	8325.5	7863.0	7276.4	6729.7	6317.2	6205.1	6331.3	6445.3	6471.4
35°	9468.9	9472.7	9228.6	8671.9	8041.2	7462.5	7007.9	6925.9	7116.2	7196.2	7258.2
37.5°	10564.1	10586.0	10271.7	9599.0	8908.1	8299.5	7758.8	7646.7	7837.0	8055.2	8255.5
40°	11747.5	11775.4	11429.0	10600.1	9909.4	9272.6	8687.9	8485.7	8802.0	9218.5	9476.8
42.5°	12876.8	13020.8	12686.5	11833.6	11090.7	10431.8	9839.2	9544.9	9941.4	10570.0	10794.4
45°	14508.5	14612.6	14030.0	13257.1	12558.3	11821.4	11036.5	10726.2	11280.8	12073.8	12119.8
47.5°	15595.8	15517.7	15221.4	14740.8	14298.3	13609.5	12428.2	12087.9	12824.7	13757.7	13499.4
50°	16174.4	16198.4	16158.4	16186.5	16202.5	15769.9	14134.1	13667.6	14546.7	15673.8	15079.2
52.5°	16715.1	16554.9	16687.0	17343.8	18136.7	17976.5	15990.3	15503.7	16392.7	17800.4	16749.1
55°	16703.1	16458.7	16889.3	18048.6	19768.6	19952.8	18074.6	17514.0	18344.9	20080.9	18519.2
57.5°	16112.4	16124.3	16787.2	18304.9	20905.8	21810.8	20493.5	19652.4	20415.3	22391.5	20135.0
60°	15299.5	15409.5	16364.7	18262.8	21816.9	23334.6	23460.8	21957.0	22443.7	24492.0	21472.5
62.5°	13988.0	14104.1	15421.7	17826.3	21678.7	24802.4	26143.8	24572.1	24564.1	25765.4	21864.9
65°	11919.6	11885.6	13269.1	16194.5	20519.4	25887.5	28808.9	26832.6	26161.9	25785.4	21076.0
67.5°	8790.0	8637.8	9825.2	12334.1	17055.5	24672.2	30376.6	28010.1	26706.5	24089.5	18665.3
70°	4561.2	4409.1	5370.2	7202.3	11216.7	19256.0	28640.8	27401.3	25503.2	20193.0	14622.7
72.5°	1950.2	1924.2	2314.7	3159.6	5426.2	11106.6	22457.6	23717.1	21883.0	15045.2	10053.6
75°	1311.4	1303.5	1449.7	1722.1	2440.8	4507.2	14054.1	16835.2	16010.3	9328.7	5654.4
77.5°	1029.2	1019.1	1105.3	1237.4	1581.8	1778.0	6237.1	9038.2	8365.6	4060.6	2474.8
80°	804.9	796.8	851.0	923.1	1137.3	1121.3	2052.4	3596.2	2783.2	1555.8	1203.4
82.5°	634.7	634.7	678.8	680.7	806.9	764.8	1071.1	1583.8	1389.6	907.0	736.8
85°	580.7	580.7	626.7	508.6	526.5	482.6	664.7	939.1	881.0	372.4	320.3
87.5°	292.3	284.4	526.5	450.5	286.3	256.2	324.4	454.5	488.6	206.3	160.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269585

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5111.9	5111.9	5111.9	5111.9	5111.9	5111.9	5111.9	5111.9	5111.9	5111.9
2.5°	5087.8	5085.8	5089.7	5091.9	5107.9	5129.9	5139.8	5153.8	5161.9	5157.9
5°	5027.8	5031.8	5047.8	5059.8	5087.8	5123.8	5143.9	5159.9	5173.9	5167.9
7.5°	4977.7	4987.7	5011.7	5021.7	5037.8	5047.8	5045.8	5051.8	5063.7	5049.7
10°	4949.7	4961.7	4979.7	4965.7	4927.7	4873.6	4823.4	4797.5	4805.6	4795.5
12.5°	4921.6	4937.7	4923.6	4857.6	4751.4	4681.3	4643.2	4647.3	4665.3	4669.3
15°	4905.6	4911.7	4851.6	4727.4	4619.3	4609.3	4629.2	4625.3	4627.3	4627.3
17.5°	4905.6	4889.6	4777.5	4653.3	4607.2	4589.3	4527.2	4449.0	4415.0	4403.0
20°	4931.6	4889.6	4753.4	4671.4	4571.3	4417.1	4252.8	4108.7	4044.6	4026.7
22.5°	5009.7	4937.7	4821.6	4679.4	4395.0	4136.8	3876.5	3704.3	3588.1	3568.1
25°	5167.9	5087.8	4955.7	4573.2	4114.6	3746.3	3449.9	3257.8	3141.6	3125.6
27.5°	5444.2	5392.2	5027.8	4339.0	3742.2	3347.9	3073.6	2925.3	2839.3	2833.3
30°	5860.7	5834.6	4991.7	3992.5	3283.8	2961.4	2829.2	2743.2	2679.0	2677.0
32.5°	6525.5	6315.3	4873.6	3570.0	2865.2	2687.1	2633.0	2580.9	2530.9	2530.9
35°	7380.5	6703.6	4649.3	3117.6	2611.0	2534.8	2466.8	2384.7	2318.6	2314.7
37.5°	8385.6	6943.9	4246.8	2753.1	2490.8	2432.8	2332.7	2210.5	2094.4	2074.4
40°	9400.8	7016.0	3680.1	2528.9	2414.7	2330.7	2208.6	2064.3	1952.2	1946.2
42.5°	10331.8	6877.9	3079.5	2374.7	2338.6	2226.5	2098.4	1970.3	1882.2	1880.2
45°	11112.8	6519.4	2574.9	2228.5	2258.6	2132.4	2018.3	1914.2	1846.0	1832.2
47.5°	11847.6	6012.9	2220.5	2074.4	2178.5	2080.4	1984.3	1886.1	1820.1	1810.1
50°	12700.4	5466.2	1972.3	1924.2	2108.4	2062.4	2012.4	1910.2	1800.1	1788.0
52.5°	13733.6	4993.7	1778.0	1792.1	2054.3	2086.4	2084.3	1978.2	1786.0	1770.0
55°	14887.0	4469.1	1632.0	1684.0	2032.3	2130.4	2102.5	2042.3	1798.0	1774.1
57.5°	16022.3	3856.5	1529.8	1601.9	2000.3	2126.4	2016.2	1930.2	1826.1	1792.1
60°	16873.3	3033.4	1451.7	1529.8	1930.2	2060.4	1922.3	1808.1	1820.1	1794.1
62.5°	16929.3	2344.7	1357.6	1467.7	1824.1	1994.2	1860.1	1754.0	1846.0	1822.1
65°	15934.1	1772.0	1267.5	1393.6	1710.0	1952.2	1800.1	1723.9	1900.2	1874.1
67.5°	13415.3	1425.6	1191.3	1317.5	1595.7	1864.2	1745.9	1695.9	1948.2	1902.3
70°	9685.0	1215.3	1117.3	1225.4	1493.7	1764.0	1697.9	1645.9	1818.1	1745.9
72.5°	5962.8	1053.3	1033.2	1103.3	1415.5	1659.9	1625.8	1551.7	1637.9	1579.8
75°	2977.4	913.0	939.1	983.1	1305.4	1541.8	1505.6	1431.5	1443.7	1431.5
77.5°	1425.6	780.8	829.0	863.0	1163.3	1407.6	1369.6	1293.5	1279.5	1281.4
80°	903.1	652.8	698.8	722.9	1039.2	1251.3	1213.4	1137.3	1297.5	1203.4
82.5°	564.7	530.5	542.7	586.7	905.0	1089.3	1039.2	971.1	1169.4	925.1
85°	312.3	370.5	386.5	424.4	696.7	911.1	860.9	774.9	694.7	682.8
87.5°	186.2	220.3	226.3	254.3	468.6	658.7	582.7	552.6	458.6	456.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)