

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: P269512

Luminaire Tested: **GLEON-AF-07-LED-E1-T3R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41027.9 lumens
Efficiency: N/A
Efficacy: 91.6 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

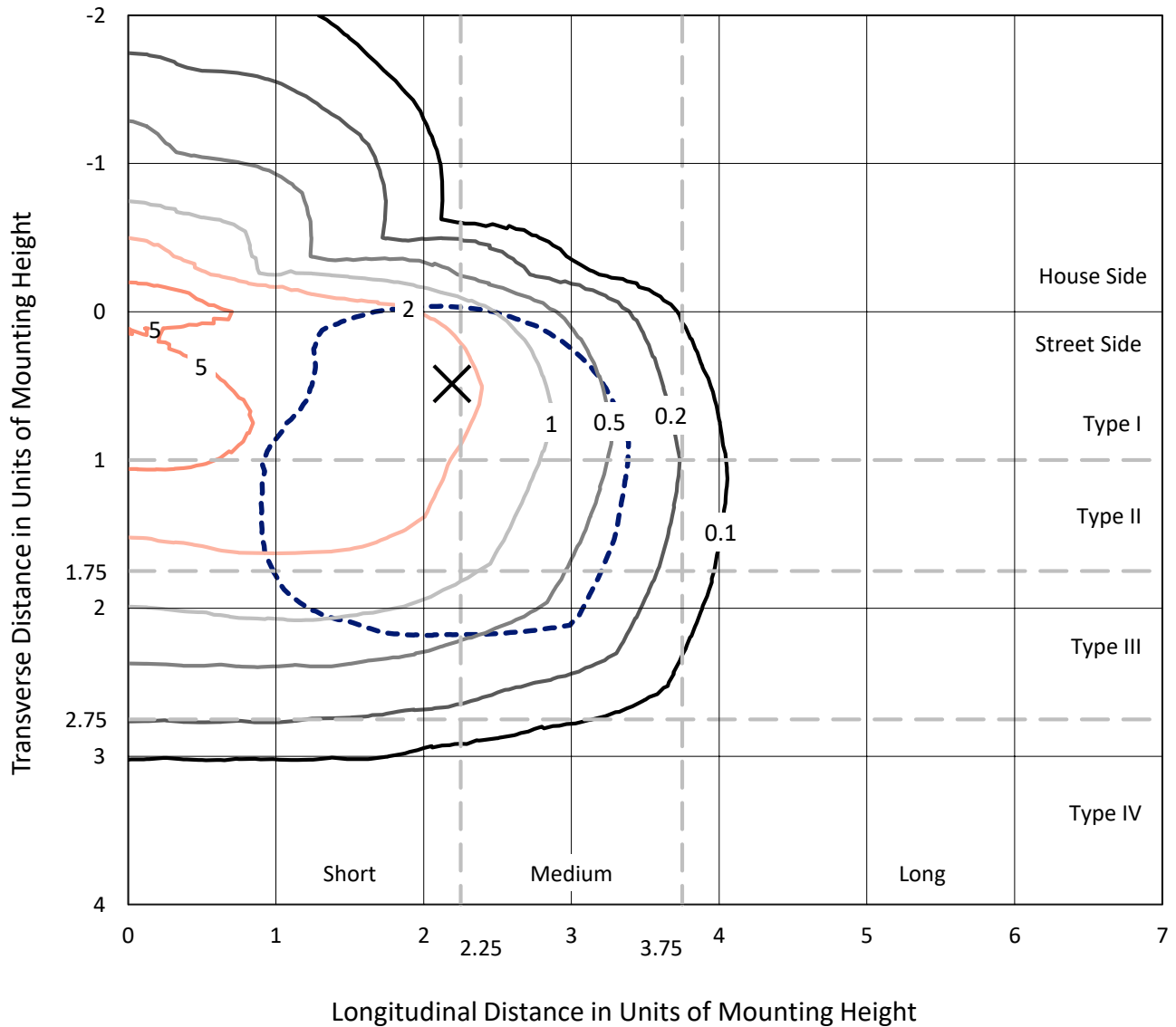
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

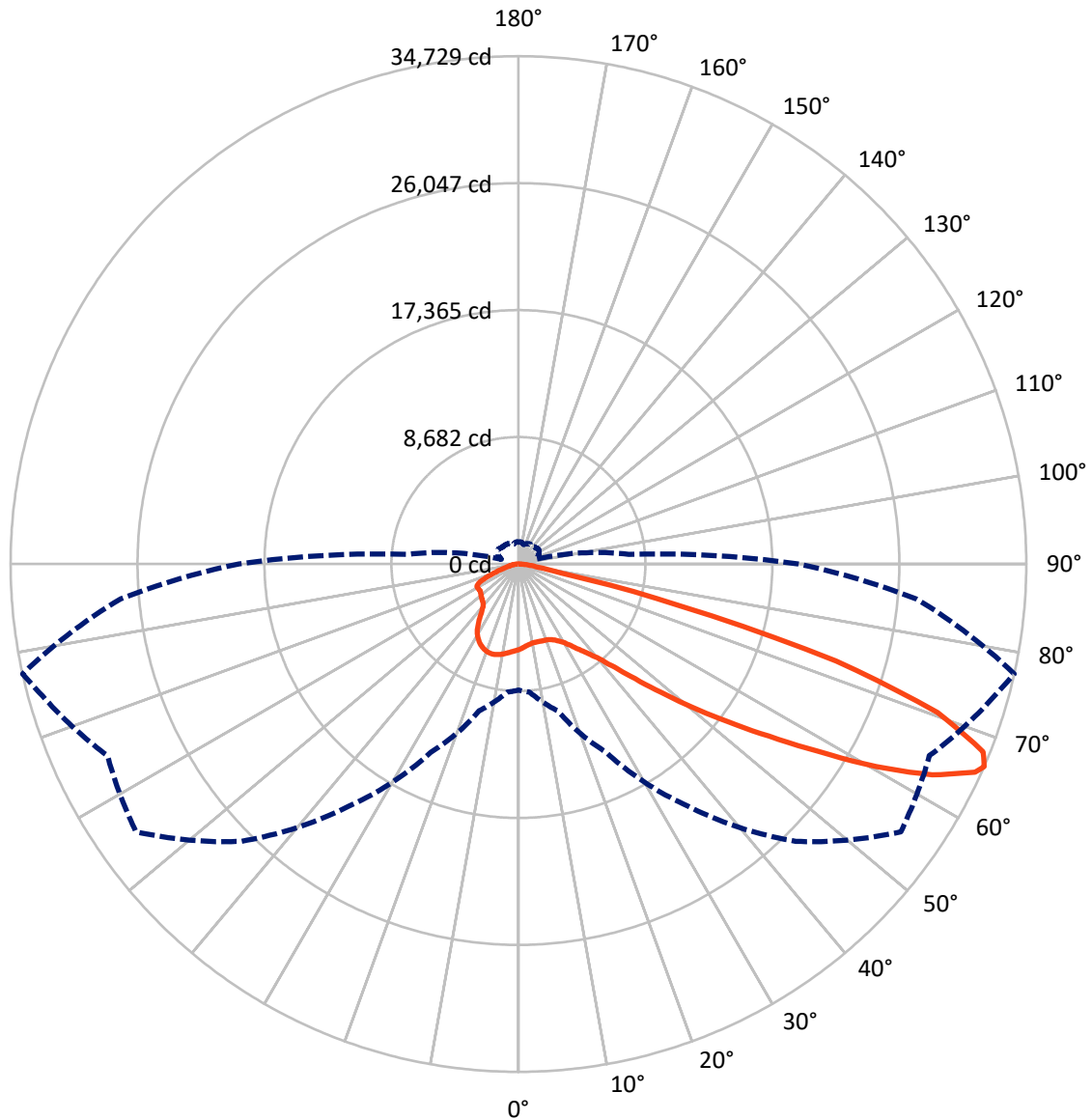
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7009.3	0.0	7009.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	34018.5	0.0	34018.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	41027.9	0.0	41027.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.4	1.3
10°-20°	1473.6	3.6
20°-30°	2515.0	6.1
30°-40°	4026.1	9.8
40°-50°	6219.9	15.2
50°-60°	8821.9	21.5
60°-70°	11801.4	28.8
70°-80°	5125.1	12.5
80°-90°	522.6	1.3
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°	41027.9	100.0
0°-180°	41027.9	100.0



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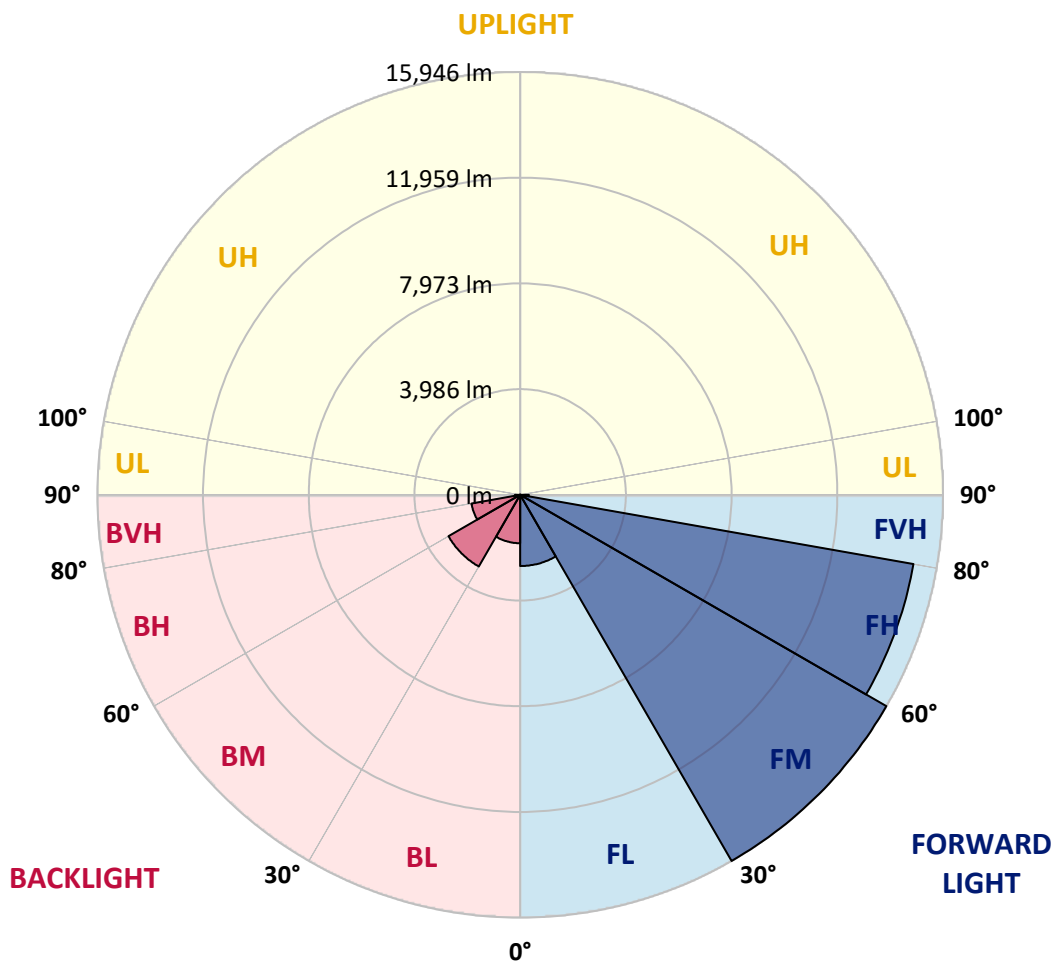
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2685.5	6.5			
FM	(30°-60°)	15945.6	38.9			
FH	(60°-80°)	15059.7	36.7			G5
FVH	(80°-90°)	327.8	0.8			G3/500
BL	(0°-30°)	1825.5	4.4	B3/2500		
BM	(30°-60°)	3122.3	7.6	B3/5000		
BH	(60°-80°)	1866.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	194.8	0.5			G2/225
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7
2.5°	5172.0	5206.9	5236.0	5263.2	5317.4	5406.5	5509.3	5592.7	5713.0	5736.1	5800.1
5°	4697.1	4697.1	4720.4	4761.0	4834.8	4968.5	5108.1	5294.3	5555.8	5617.9	5788.5
7.5°	4466.5	4468.3	4482.0	4516.8	4580.7	4702.9	4856.1	5075.2	5429.9	5532.7	5823.4
10°	4551.7	4532.3	4503.3	4485.7	4495.5	4567.3	4712.6	4956.8	5352.3	5484.2	5901.0
12.5°	5028.6	4991.8	4890.9	4757.2	4629.2	4577.0	4662.3	4900.7	5319.4	5472.6	6003.7
15°	5807.9	5792.5	5604.3	5327.0	5016.9	4757.2	4699.0	4879.4	5323.3	5486.0	6125.8
17.5°	6784.9	6763.6	6515.4	6112.2	5606.3	5100.3	4828.8	4896.8	5336.8	5509.3	6244.1
20°	7771.6	7705.8	7438.2	6957.5	6308.1	5567.5	5044.2	4941.3	5354.3	5534.5	6368.2
22.5°	8508.2	8453.9	8213.7	7746.4	6998.2	6108.4	5333.0	5018.9	5410.5	5608.2	6521.2
25°	9155.7	9159.7	8921.2	8469.5	7696.0	6682.2	5705.1	5226.2	5554.0	5759.5	6730.6
27.5°	9956.5	9909.9	9687.0	9239.2	8386.1	7261.8	6154.8	5511.3	5767.2	5974.5	7005.9
30°	10914.0	10881.1	10623.3	10115.4	9151.9	7884.1	6668.6	5842.8	6042.4	6257.7	7366.6
32.5°	12040.3	12024.8	11757.2	11103.9	10035.9	8616.8	7271.5	6280.9	6453.5	6676.4	7884.1
35°	13362.5	13364.4	13048.4	12263.3	11003.2	9469.8	7955.7	6845.1	6953.6	7186.3	8500.5
37.5°	14176.6	14275.4	14157.3	13356.5	12098.6	10423.7	8843.6	7593.4	7523.6	7758.1	9161.6
40°	14351.1	14471.2	14845.4	14438.3	13323.7	11474.3	9630.6	8312.5	8225.3	8512.2	10012.6
42.5°	14106.9	14273.6	15064.4	15351.3	14624.4	12769.2	10689.2	9380.6	9270.1	9655.9	11071.2
45°	13961.5	14085.6	15000.4	15826.2	15752.7	14232.8	12036.5	10722.1	10681.4	11187.4	12292.3
47.5°	13709.5	13822.0	14702.0	15936.8	16415.6	15574.4	13655.1	12362.1	12441.6	13104.7	13670.6
50°	13845.1	13891.7	14368.5	15655.8	16607.5	16557.2	15463.9	14261.9	14533.3	15361.0	15231.2
52.5°	13825.8	13945.9	14329.8	15194.3	16632.7	17163.9	17245.3	16380.8	16952.6	17902.5	16962.3
55°	11177.7	11398.7	13874.2	15078.1	16721.9	17759.0	18831.1	18614.0	19680.2	20787.0	18916.4
57.5°	10673.8	10813.3	12185.7	15322.3	17194.9	18895.0	20595.3	21072.0	22855.4	24140.8	21296.8
60°	10574.8	10747.3	12168.4	15620.8	18154.6	20746.4	23210.2	24047.7	26719.0	28126.4	24057.4
62.5°	10266.5	10452.7	12053.8	15582.1	19517.4	23307.2	26558.1	27211.5	30383.0	31751.5	26366.2
65°	9289.6	9464.1	11121.5	14955.9	20436.3	26040.5	30520.5	30111.5	33275.2	34304.7	27517.7
66°	8620.8	8791.4	10386.7	14219.4	20223.0	26815.9	31924.1	31009.0	33922.8	34729.2	27292.8
67.5°	7397.5	7531.3	8960.0	12569.5	19089.0	27033.1	33104.6	31683.7	33990.5	34275.5	26007.5
70°	4673.8	4712.6	5823.4	8677.0	14450.0	23444.9	31307.5	30008.8	31187.4	30415.8	21802.9
72.5°	2027.7	2014.2	2795.3	4414.1	8180.7	15731.4	25325.2	24761.2	24464.5	22704.3	15262.3
75°	1128.2	1143.7	1452.0	2049.0	3324.5	7727.1	16566.8	15853.5	13385.7	11421.9	6920.6
77.5°	905.3	926.6	1203.9	1453.8	1492.7	2694.6	7752.3	6308.1	3797.7	3047.4	1923.0
80°	715.3	754.0	1050.7	1132.1	1006.1	1110.8	2504.7	2002.5	1502.3	1378.3	996.4
82.5°	566.0	593.2	901.4	856.9	703.7	748.3	1200.0	1169.0	977.0	889.9	575.8
85°	407.1	457.4	740.6	645.5	461.4	503.9	796.7	763.7	560.3	457.4	254.0
87.5°	166.7	217.1	523.4	428.4	257.9	234.5	397.4	374.1	265.5	193.9	126.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7
2.5°	5840.9	5887.4	5947.5	5984.2	6003.7	6017.2	6038.5	6036.6	6042.4	6044.3	6052.2
5°	5879.6	5957.2	6044.3	6067.6	6067.6	6046.3	6025.0	5990.1	5976.6	5972.7	5976.6
7.5°	5980.5	6065.7	6141.4	6114.3	6056.1	5970.8	5860.3	5763.3	5711.0	5693.5	5689.7
10°	6108.4	6211.2	6242.1	6139.3	5968.8	5763.3	5544.2	5385.2	5294.3	5269.0	5261.3
12.5°	6263.4	6360.4	6317.7	6100.6	5784.6	5453.2	5150.7	4896.8	4706.8	4646.8	4642.8
15°	6434.0	6509.7	6360.4	5980.5	5509.3	5020.8	4482.0	4043.8	3807.2	3731.6	3725.9
17.5°	6593.0	6631.7	6335.1	5771.2	5104.2	4313.3	3597.9	3260.7	3179.2	3198.7	3202.5
20°	6728.8	6728.8	6249.9	5470.6	4466.5	3380.9	2929.2	2923.4	2981.5	3039.7	3051.4
22.5°	6878.1	6788.9	6100.6	5046.0	3563.0	2766.3	2700.5	2754.7	2820.6	2884.5	2894.2
25°	7062.1	6837.3	5893.2	4402.5	2801.3	2512.4	2537.5	2582.2	2615.1	2655.7	2661.6
27.5°	7267.6	6899.3	5619.8	3516.5	2431.0	2353.4	2372.9	2388.4	2384.5	2399.9	2403.9
30°	7513.9	6971.0	5245.7	2748.9	2277.8	2217.6	2182.8	2169.2	2169.2	2194.4	2204.1
32.5°	7843.5	7077.7	4708.7	2355.4	2204.1	2120.8	2008.3	1957.9	1977.3	2062.6	2082.0
35°	8205.8	7192.0	3981.7	2221.6	2188.6	2076.3	1901.7	1808.6	1810.7	1890.0	1915.2
37.5°	8601.4	7337.4	3185.0	2196.4	2223.6	2078.0	1845.5	1717.6	1665.2	1665.2	1674.9
40°	9107.2	7486.7	2578.2	2213.9	2297.1	2101.3	1816.5	1645.9	1498.6	1502.3	1510.1
42.5°	9766.5	7614.7	2252.6	2250.7	2386.3	2132.3	1814.4	1550.8	1422.8	1510.1	1589.6
45°	10499.2	7678.6	2109.1	2283.6	2458.1	2151.8	1783.5	1535.4	1432.5	1692.3	1843.5
47.5°	11342.4	7641.8	2029.7	2295.3	2475.5	2151.8	1748.6	1572.2	1500.3	1959.9	2136.3
50°	12267.2	7535.2	1952.1	2272.0	2469.7	2147.8	1781.5	1609.0	1525.6	2006.5	2128.5
52.5°	13354.7	7446.1	1870.7	2221.6	2428.9	2126.6	1820.2	1593.6	1446.1	1824.2	1909.4
55°	14595.3	7471.2	1779.6	2149.9	2365.1	2085.9	1806.8	1531.5	1362.8	1607.1	1659.3
57.5°	16181.1	7771.6	1671.0	2058.7	2277.8	2018.0	1758.3	1502.3	1337.5	1457.8	1488.9
60°	17951.0	8295.0	1535.4	1967.6	2169.2	1909.4	1721.4	1515.9	1349.3	1446.1	1461.6
62.5°	19249.8	8599.5	1419.1	1833.9	2021.9	1789.2	1674.9	1533.3	1380.2	1486.9	1483.0
65°	19602.6	8099.3	1273.6	1638.1	1822.2	1663.3	1616.8	1552.8	1393.8	1519.8	1502.3
66°	19108.2	7560.3	1209.7	1547.1	1721.4	1601.3	1587.7	1550.8	1388.1	1523.6	1494.6
67.5°	17908.3	6455.4	1099.2	1413.3	1560.5	1508.2	1541.1	1533.3	1372.5	1519.8	1479.1
70°	14605.1	4404.4	940.2	1176.7	1298.8	1328.0	1452.0	1471.3	1322.0	1452.0	1362.8
72.5°	10204.6	2683.0	831.7	913.0	1050.7	1132.1	1329.9	1386.1	1254.3	1267.8	1182.4
75°	4931.6	1424.8	754.0	707.5	816.1	946.0	1182.4	1269.8	1147.7	1060.4	1029.4
77.5°	1537.3	870.4	639.8	570.0	639.8	763.7	988.7	1112.7	1021.6	887.9	876.2
80°	825.8	639.8	492.5	457.4	505.9	599.0	777.4	928.6	878.2	796.7	711.5
82.5°	544.7	414.8	364.4	354.7	385.8	457.4	577.7	769.6	769.6	682.4	496.3
85°	281.1	254.0	250.1	250.1	269.4	304.3	393.5	593.2	632.0	360.6	298.5
87.5°	139.5	145.3	135.7	141.6	151.3	149.3	188.0	298.5	356.6	219.0	182.3
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)