

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: P193234

Luminaire Tested: **GLEON-AF-06-LED-E1-T3R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193234
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-06-LED-E1-T3R-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35204.4 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 333
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

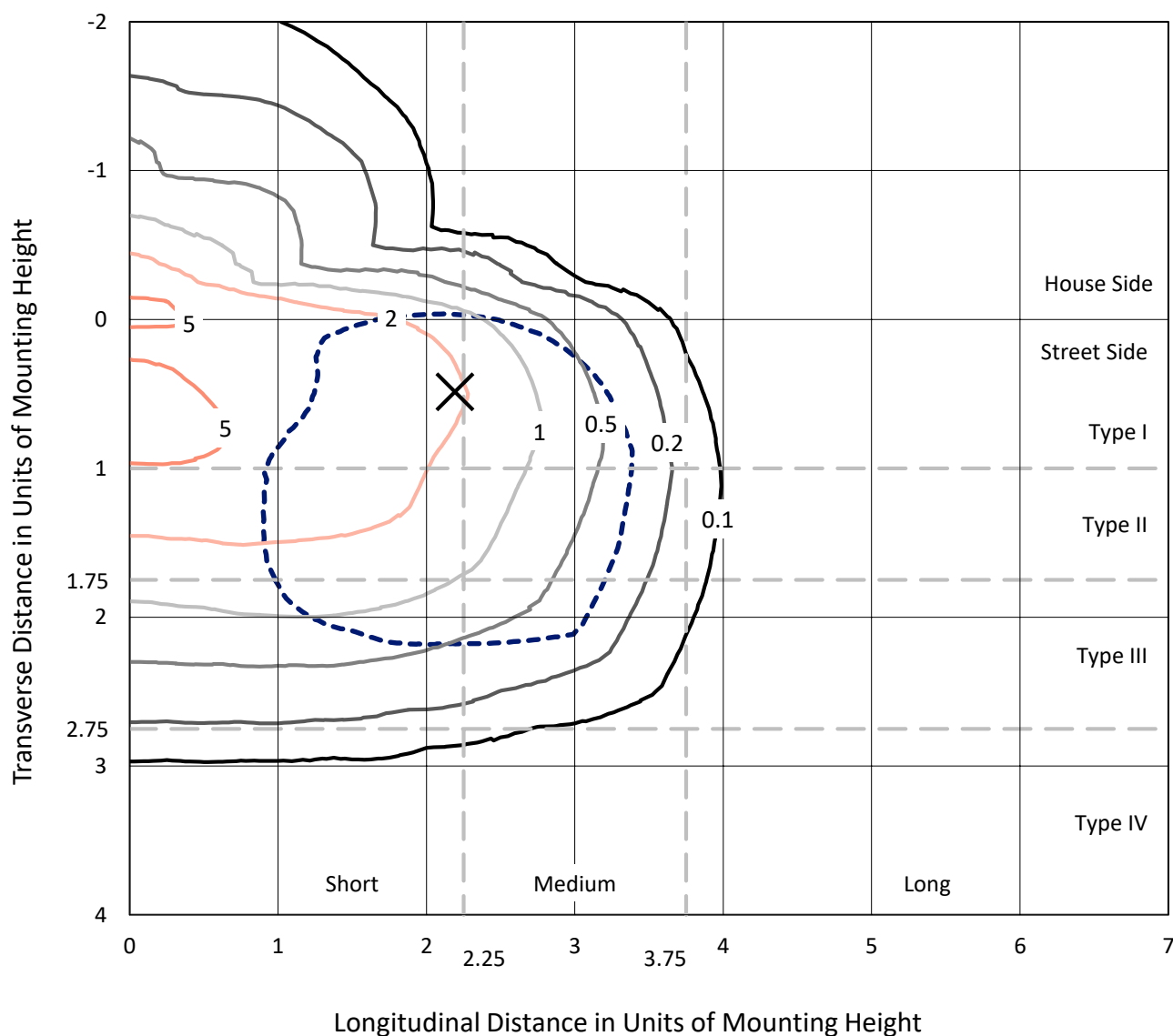


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

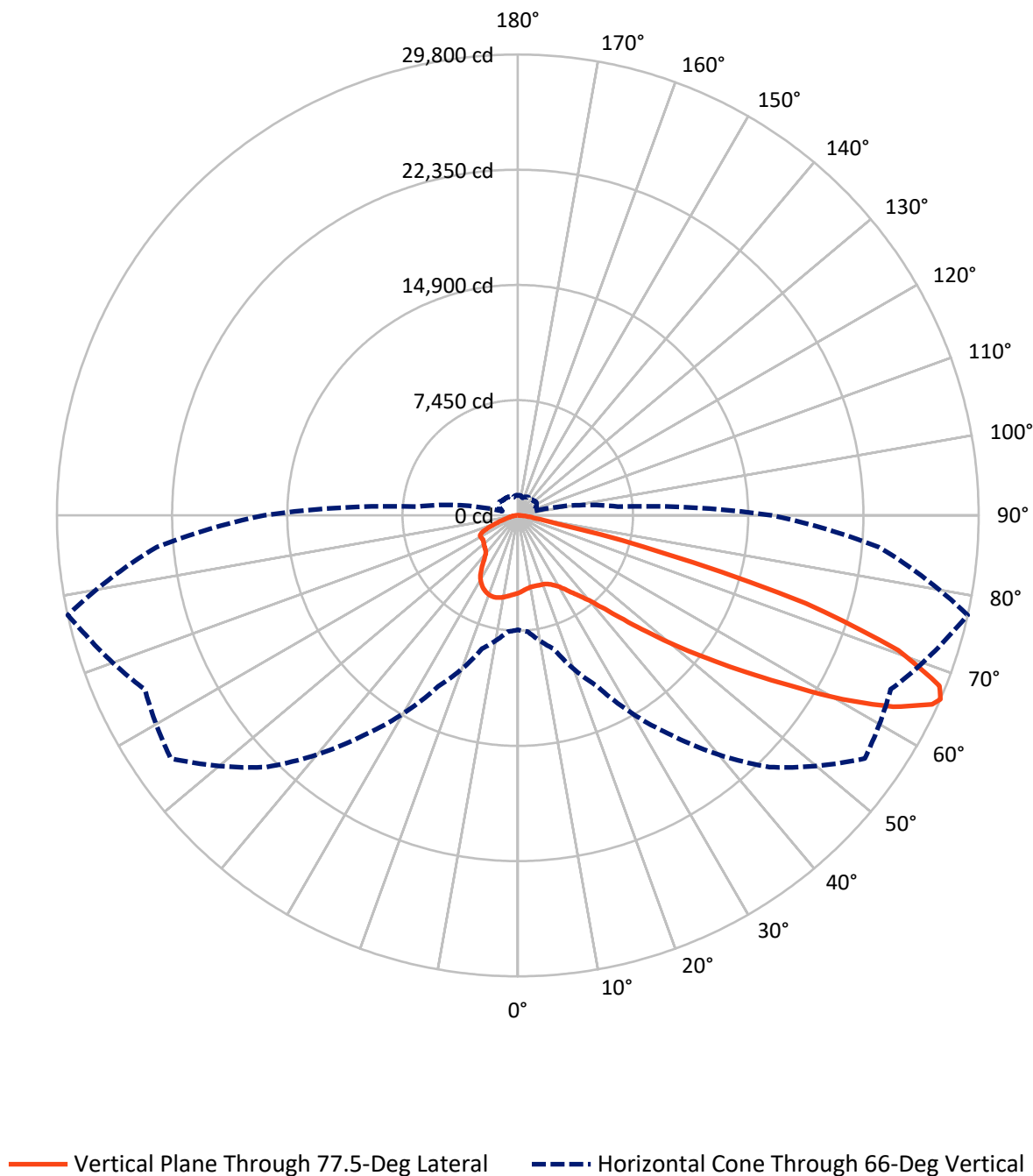


Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6014.4	0.0	6014.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	29190.0	0.0	29190.0
	% Fixture	82.9	0.0	82.9
Total	Lumens	35204.4	0.0	35204.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.2	1.3
10°-20°	1264.5	3.6
20°-30°	2158.0	6.1
30°-40°	3454.6	9.8
40°-50°	5337.0	15.2
50°-60°	7569.7	21.5
60°-70°	10126.3	28.8
70°-80°	4397.7	12.5
80°-90°	448.4	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°	35204.4	100.0
0°-180°	35204.4	100.0

Coefficient of Utilization



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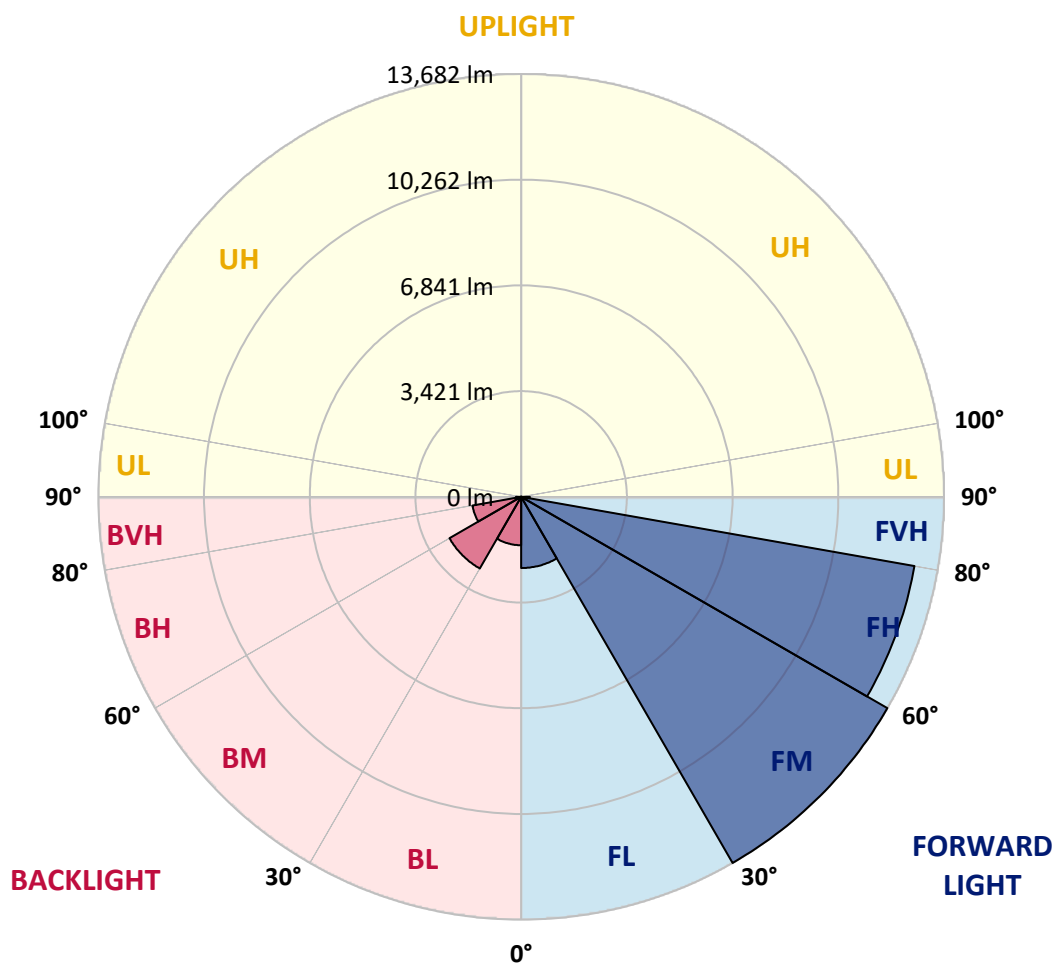
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2304.3	6.5			
FM	(30°-60°)	13682.3	38.9			
FH	(60°-80°)	12922.2	36.7			G5
FVH	(80°-90°)	281.2	0.8			G3/500
BL	(0°-30°)	1566.4	4.4	B3/2500		
BM	(30°-60°)	2679.1	7.6	B3/5000		
BH	(60°-80°)	1601.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	167.2	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°	5016.7	5016.7	5016.7	5016.7	5016.7	5016.7	5016.7	5016.7	5016.7	5016.7	5016.7
2.5°	4437.9	4467.8	4492.8	4516.1	4562.6	4639.2	4727.3	4798.8	4902.0	4922.0	4976.9
5°	4030.3	4030.3	4050.3	4085.3	4148.5	4263.3	4383.1	4542.8	4767.3	4820.5	4966.9
7.5°	3832.5	3834.1	3845.8	3875.8	3930.6	4035.4	4166.8	4354.7	4659.2	4747.4	4996.9
10°	3905.7	3889.0	3864.1	3849.1	3857.4	3918.9	4043.6	4253.4	4592.6	4705.8	5063.4
12.5°	4314.8	4283.3	4196.7	4081.9	3972.2	3927.4	4000.4	4205.1	4564.3	4695.8	5151.6
15°	4983.6	4970.2	4808.8	4571.0	4304.9	4081.9	4032.1	4186.9	4567.7	4707.4	5256.4
17.5°	5821.9	5803.7	5590.7	5244.7	4810.5	4376.4	4143.5	4201.8	4579.3	4727.3	5357.7
20°	6668.5	6612.1	6382.5	5969.9	5412.7	4777.3	4328.2	4240.1	4594.3	4749.0	5464.3
22.5°	7300.6	7254.0	7047.8	6646.9	6004.9	5241.3	4576.0	4306.6	4642.5	4812.3	5595.7
25°	7856.2	7859.6	7654.9	7267.4	6603.6	5733.7	4895.4	4484.5	4765.7	4941.9	5775.3
27.5°	8543.2	8503.3	8312.0	7927.8	7195.9	6231.0	5281.3	4729.1	4948.6	5126.6	6011.6
30°	9364.9	9336.6	9115.4	8679.5	7852.9	6765.0	5722.1	5013.5	5184.8	5369.4	6320.8
32.5°	10331.3	10318.0	10088.5	9528.0	8611.4	7393.8	6239.4	5389.4	5537.5	5728.7	6765.0
35°	11465.7	11467.5	11196.4	10522.6	9441.4	8125.7	6826.5	5873.4	5966.6	6166.1	7294.0
37.5°	12164.4	12249.3	12147.8	11460.8	10381.3	8944.1	7588.4	6515.5	6455.6	6656.9	7861.2
40°	12314.1	12417.2	12738.3	12389.0	11432.6	9845.7	8263.8	7132.7	7057.8	7304.0	8591.4
42.5°	12104.5	12247.5	12926.3	13172.4	12548.7	10956.7	9172.0	8049.1	7954.4	8285.3	9499.6
45°	11979.7	12086.3	12871.4	13580.0	13516.8	12212.7	10328.1	9200.2	9165.3	9599.4	10547.6
47.5°	11763.5	11860.0	12615.2	13674.8	14085.6	13363.7	11717.0	10607.4	10675.6	11244.5	11730.3
50°	11880.0	11919.8	12329.1	13433.5	14250.2	14207.1	13268.9	12237.6	12470.5	13180.7	13069.3
52.5°	11863.4	11966.5	12295.8	13037.7	14271.9	14727.7	14797.5	14055.6	14546.3	15361.5	14554.8
55°	9591.1	9780.8	11904.9	12937.9	14348.5	15238.4	16158.3	15971.9	16886.8	17836.6	16231.4
57.5°	9158.6	9278.4	10456.1	13147.5	14754.3	16213.1	17671.9	18081.1	19611.4	20714.3	18274.0
60°	9073.8	9221.8	10441.2	13403.6	15577.6	17801.6	19915.8	20634.3	22926.5	24134.2	20642.7
62.5°	8809.3	8969.0	10343.0	13370.4	16747.0	19999.1	22788.5	23349.0	26070.4	27244.8	22623.9
65°	7971.0	8120.7	9542.9	12833.0	17535.4	22344.4	26188.5	25837.5	28552.1	29435.4	23611.9
66°	7397.1	7543.5	8912.5	12201.0	17352.5	23009.8	27392.8	26607.7	29107.8	29799.7	23418.9
67.5°	6347.5	6462.2	7688.2	10785.4	16379.5	23196.1	28405.8	27186.6	29166.0	29410.5	22316.1
70°	4010.5	4043.6	4996.9	7445.4	12399.0	20117.2	26863.8	25749.3	26760.7	26098.6	18708.3
72.5°	1740.0	1728.3	2398.6	3787.6	7019.6	13498.4	21730.6	21246.5	20992.1	19481.7	13096.0
75°	968.1	981.3	1245.9	1758.2	2852.8	6630.3	14215.4	13603.3	11485.8	9800.8	5938.3
77.5°	776.9	795.1	1032.9	1247.5	1280.8	2312.2	6651.9	5412.7	3258.5	2614.9	1650.1
80°	613.8	647.1	901.6	971.5	863.2	953.2	2149.1	1718.3	1289.1	1182.6	855.0
82.5°	485.6	509.0	773.4	735.2	603.7	642.1	1029.7	1003.0	838.3	763.5	494.1
85°	349.3	392.6	635.5	554.0	395.8	432.4	683.6	655.3	480.7	392.6	217.9
87.5°	143.0	186.3	449.2	367.6	221.2	201.2	341.0	321.0	228.0	166.3	108.1
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°	5016.7	5016.7	5016.7	5016.7	5016.7	5016.7	5016.7	5016.7	5016.7	5016.7	5016.7
2.5°	5011.8	5051.7	5103.3	5134.8	5151.6	5163.1	5181.5	5179.8	5184.8	5186.4	5193.1
5°	5045.0	5111.5	5186.4	5206.4	5206.4	5188.1	5169.8	5139.9	5128.2	5125.0	5128.2
7.5°	5131.6	5204.8	5269.7	5246.3	5196.5	5123.2	5028.4	4945.3	4900.4	4885.4	4882.0
10°	5241.3	5329.5	5356.1	5267.9	5121.6	4945.3	4757.2	4620.9	4542.8	4521.1	4514.5
12.5°	5374.5	5457.6	5421.0	5234.7	4963.5	4679.1	4419.6	4201.8	4038.8	3987.2	3983.8
15°	5520.8	5585.7	5457.6	5131.6	4727.3	4308.2	3845.8	3469.8	3267.0	3202.1	3197.0
17.5°	5657.2	5690.4	5435.9	4951.9	4379.7	3701.0	3087.2	2797.8	2727.9	2744.6	2748.0
20°	5773.7	5773.7	5362.8	4694.1	3832.5	2901.0	2513.4	2508.4	2558.3	2608.2	2618.2
22.5°	5901.7	5825.1	5234.7	4329.8	3057.3	2373.6	2317.1	2363.8	2420.2	2475.2	2483.5
25°	6059.7	5866.7	5056.7	3777.5	2403.6	2155.8	2177.4	2215.7	2243.9	2278.8	2283.8
27.5°	6236.1	5920.0	4822.1	3017.4	2085.9	2019.3	2036.0	2049.2	2046.0	2059.3	2062.6
30°	6447.3	5981.6	4501.2	2358.7	1954.5	1903.0	1873.0	1861.3	1861.3	1883.0	1891.3
32.5°	6730.1	6073.0	4040.4	2021.1	1891.3	1819.7	1723.2	1680.1	1696.7	1769.9	1786.5
35°	7041.1	6171.2	3416.6	1906.2	1877.9	1781.5	1631.8	1551.9	1553.5	1621.9	1643.5
37.5°	7380.5	6295.9	2733.0	1884.6	1907.8	1783.1	1583.6	1473.8	1428.9	1428.9	1437.2
40°	7814.7	6424.0	2212.3	1899.6	1971.1	1803.1	1558.6	1412.1	1285.8	1289.1	1295.9
42.5°	8380.1	6533.8	1932.9	1931.1	2047.6	1829.8	1557.0	1330.7	1221.0	1295.9	1364.0
45°	9009.0	6588.7	1809.8	1959.4	2109.1	1846.4	1530.2	1317.4	1229.2	1452.2	1581.8
47.5°	9732.5	6557.0	1741.6	1969.5	2124.1	1846.4	1500.3	1349.1	1287.5	1681.7	1833.1
50°	10525.9	6465.6	1675.1	1949.5	2119.2	1843.1	1528.6	1380.6	1309.2	1721.6	1826.4
52.5°	11459.1	6389.1	1605.1	1906.2	2084.2	1824.7	1562.0	1367.3	1240.8	1565.2	1638.5
55°	12523.8	6410.7	1527.0	1844.8	2029.4	1789.7	1550.3	1314.1	1169.4	1379.0	1423.8
57.5°	13884.3	6668.5	1433.8	1766.5	1954.5	1731.5	1508.7	1289.1	1147.8	1250.9	1277.5
60°	15403.1	7117.7	1317.4	1688.4	1861.3	1638.5	1477.0	1300.7	1157.7	1240.8	1254.2
62.5°	16517.5	7378.9	1217.5	1573.6	1734.9	1535.3	1437.2	1315.7	1184.4	1275.8	1272.6
65°	16820.3	6949.7	1092.8	1405.6	1563.6	1427.2	1387.3	1332.4	1196.0	1304.1	1289.1
66°	16396.1	6487.3	1038.0	1327.4	1477.0	1373.9	1362.4	1330.7	1191.0	1307.4	1282.4
67.5°	15366.4	5539.1	943.1	1212.7	1339.1	1294.0	1322.4	1315.7	1177.7	1304.1	1269.1
70°	12532.0	3779.3	806.8	1009.7	1114.5	1139.5	1245.9	1262.5	1134.4	1245.9	1169.4
72.5°	8756.1	2302.1	713.6	783.5	901.6	971.5	1141.1	1189.3	1076.2	1087.9	1014.7
75°	4231.7	1222.6	647.1	607.2	700.3	811.7	1014.7	1089.6	984.8	909.9	883.3
77.5°	1319.1	746.9	548.9	489.1	548.9	655.3	848.3	954.8	876.6	761.9	751.8
80°	708.6	548.9	422.5	392.6	434.2	513.9	667.0	796.7	753.6	683.6	610.4
82.5°	467.4	355.9	312.7	304.4	331.0	392.6	495.7	660.4	660.4	585.5	425.8
85°	241.3	217.9	214.5	214.5	231.2	261.1	337.7	509.0	542.3	309.4	256.2
87.5°	119.7	124.8	116.5	121.4	129.7	128.1	161.3	256.2	306.0	187.9	156.3
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)