

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: P192295

Luminaire Tested: **GLEON-AF-07-LED-E1-T3R-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192295
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-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 43048 lumens
Efficiency: N/A
Efficacy: 110.1 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

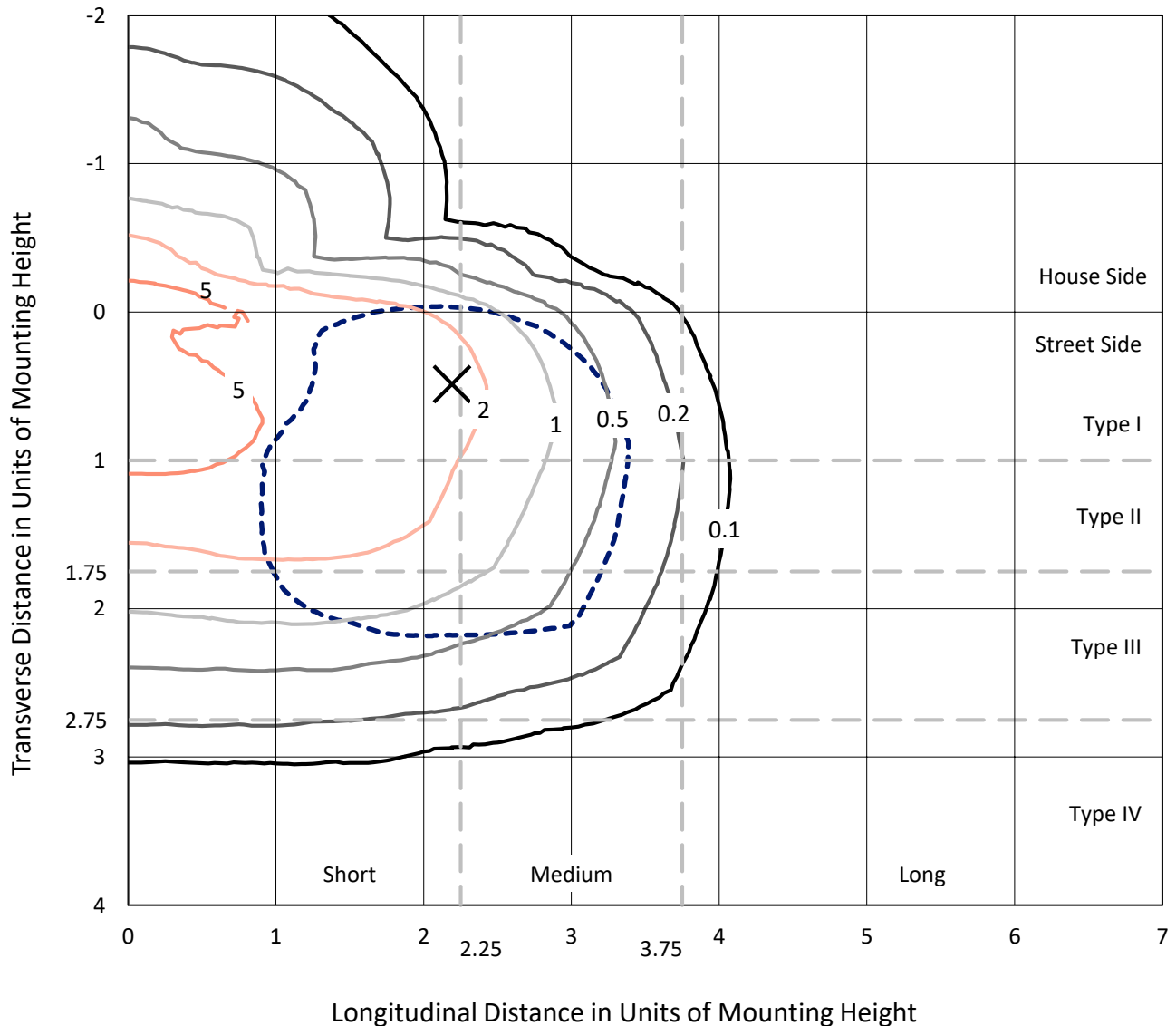
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

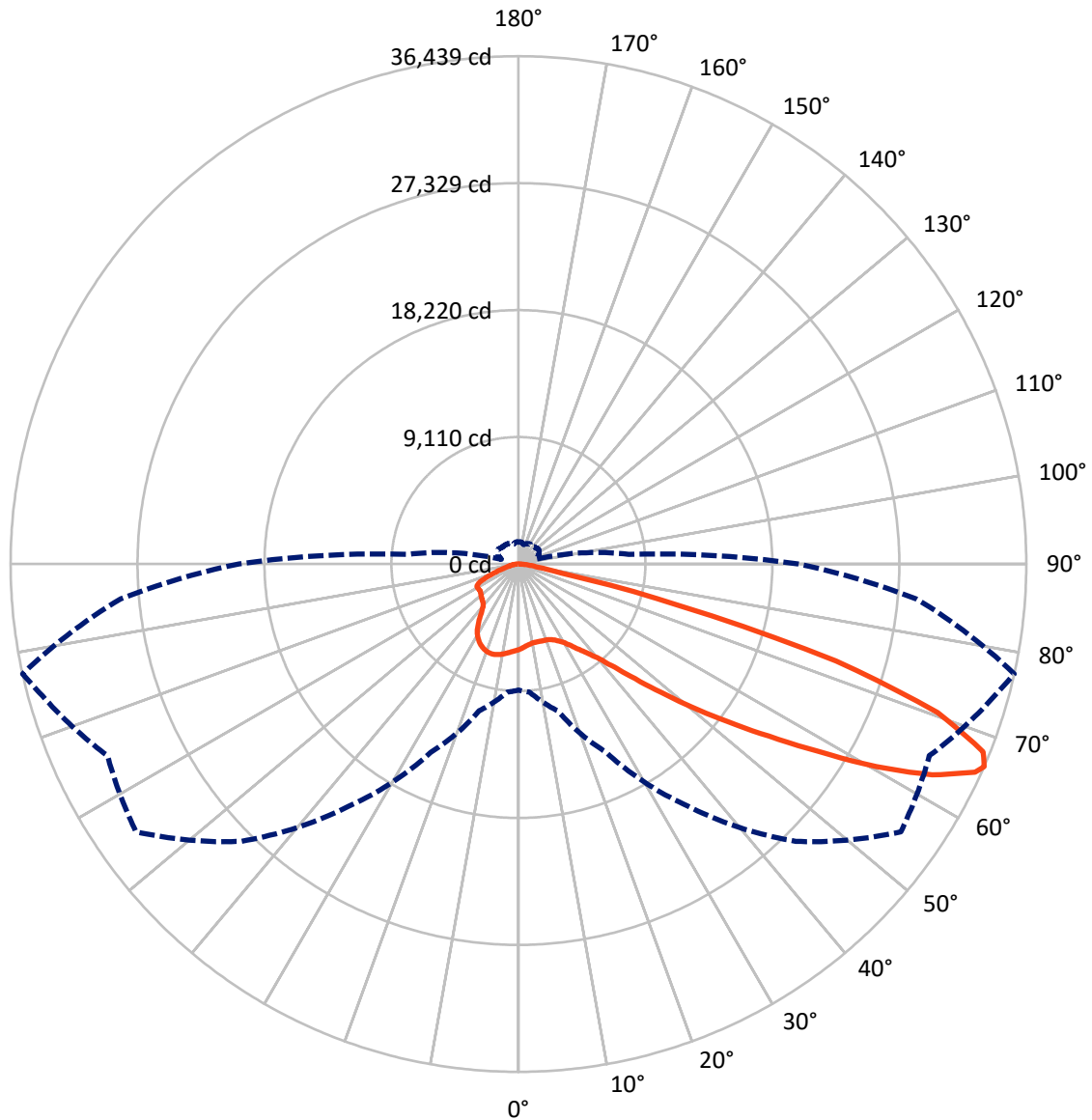
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 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	7354.5	0.0	7354.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	35693.5	0.0	35693.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	43048.0	0.0	43048.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.1	1.3
10°-20°	1546.2	3.6
20°-30°	2638.8	6.1
30°-40°	4224.3	9.8
40°-50°	6526.1	15.2
50°-60°	9256.3	21.5
60°-70°	12382.4	28.8
70°-80°	5377.4	12.5
80°-90°	548.3	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°	43048.0	100.0
0°-180°	43048.0	100.0



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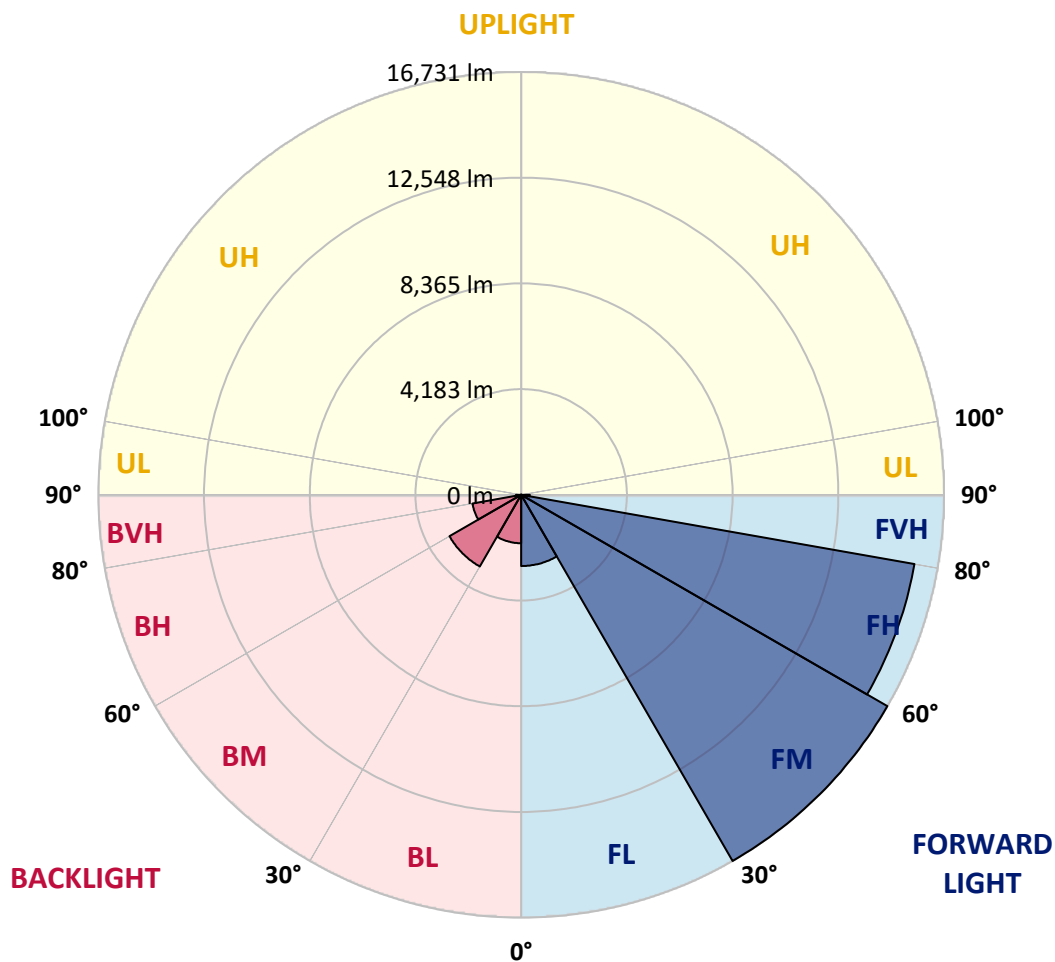
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2817.7	6.5			
FM	(30°-60°)	16730.7	38.9			
FH	(60°-80°)	15801.2	36.7			G5
FVH	(80°-90°)	343.9	0.8			G3/500
BL	(0°-30°)	1915.4	4.4	B3/2500		
BM	(30°-60°)	3276.0	7.6	B3/5000		
BH	(60°-80°)	1958.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	204.4	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°	6134.5	6134.5	6134.5	6134.5	6134.5	6134.5	6134.5	6134.5	6134.5	6134.5	6134.5
2.5°	5426.7	5463.3	5493.8	5522.3	5579.3	5672.8	5780.6	5868.1	5994.2	6018.6	6085.7
5°	4928.4	4928.4	4952.8	4995.5	5072.8	5213.1	5359.6	5554.9	5829.4	5894.5	6073.5
7.5°	4686.3	4688.4	4702.6	4739.2	4806.3	4934.5	5095.2	5325.0	5697.2	5805.0	6110.1
10°	4775.8	4755.5	4725.0	4706.7	4716.8	4792.1	4944.7	5200.9	5615.9	5754.2	6191.5
12.5°	5276.2	5237.6	5131.8	4991.4	4857.2	4802.3	4891.8	5142.0	5581.3	5742.0	6299.3
15°	6093.9	6077.6	5880.3	5589.4	5264.0	4991.4	4930.4	5119.6	5585.4	5756.2	6427.4
17.5°	7119.0	7096.6	6836.3	6413.2	5882.3	5351.5	5066.7	5137.9	5599.6	5780.6	6551.5
20°	8154.3	8085.2	7804.5	7300.0	6618.6	5841.6	5292.5	5184.7	5617.9	5807.1	6681.7
22.5°	8927.2	8870.3	8618.1	8127.9	7342.7	6409.1	5595.5	5266.0	5676.9	5884.4	6842.4
25°	9606.6	9610.7	9360.5	8886.5	8075.0	7011.2	5986.1	5483.7	5827.4	6043.0	7062.0
27.5°	10446.6	10397.8	10163.9	9694.0	8799.1	7619.4	6458.0	5782.7	6051.2	6268.8	7350.9
30°	11451.4	11416.8	11146.3	10613.4	9602.5	8272.3	6997.0	6130.5	6340.0	6565.8	7729.2
32.5°	12633.2	12616.9	12336.2	11650.8	10530.0	9041.1	7629.5	6590.2	6771.2	7005.1	8272.3
35°	14020.4	14022.4	13690.9	12867.1	11545.0	9936.1	8347.5	7182.1	7296.0	7540.0	8919.1
37.5°	14874.6	14978.4	14854.3	14014.3	12694.2	10936.8	9279.1	7967.2	7894.0	8140.1	9612.7
40°	15057.7	15183.8	15576.4	15149.2	13979.7	12039.2	10104.9	8721.8	8630.3	8931.3	10505.6
42.5°	14801.4	14976.3	15806.2	16107.2	15344.5	13398.0	11215.5	9842.5	9726.6	10131.4	11616.2
45°	14648.9	14779.0	15739.1	16605.6	16528.3	14933.6	12629.1	11250.1	11207.3	11738.2	12897.6
47.5°	14384.4	14502.4	15425.9	16721.5	17223.9	16341.2	14327.5	12970.8	13054.2	13749.8	14343.8
50°	14526.8	14575.6	15076.0	16426.6	17425.3	17372.4	16225.2	14964.1	15248.9	16117.4	15981.1
52.5°	14506.5	14632.6	15035.3	15942.5	17451.7	18009.0	18094.5	17187.3	17787.3	18784.0	17797.5
55°	11728.0	11959.9	14557.3	15820.5	17545.3	18633.5	19758.3	19530.5	20649.2	21810.6	19847.8
57.5°	11199.2	11345.7	12785.7	16076.7	18041.6	19825.4	21609.2	22109.6	23980.9	25329.4	22345.5
60°	11095.5	11276.5	12767.4	16390.0	19048.4	21767.9	24353.1	25231.8	28034.6	29511.3	25241.9
62.5°	10772.1	10967.3	12647.4	16349.3	20478.3	24454.8	27865.8	28551.3	31878.9	33314.9	27664.4
65°	9746.9	9930.0	11669.1	15692.3	21442.4	27322.7	32023.3	31594.1	34913.6	35993.7	28872.6
66°	9045.2	9224.2	10898.2	14919.4	21218.7	28136.3	33495.9	32535.9	35593.0	36439.1	28636.7
67.5°	7761.7	7902.1	9401.1	13188.5	20028.8	28364.1	34734.6	33243.7	35664.2	35963.2	27288.1
70°	4904.0	4944.7	6110.1	9104.2	15161.4	24599.2	32849.1	31486.3	32723.0	31913.5	22876.4
72.5°	2127.6	2113.3	2933.0	4631.4	8583.5	16505.9	26572.2	25980.3	25669.1	23822.2	16013.7
75°	1183.8	1200.1	1523.5	2149.9	3488.3	8107.5	17382.6	16634.1	14044.8	11984.3	7261.4
77.5°	949.9	972.3	1263.1	1525.5	1566.2	2827.3	8134.0	6618.6	3984.6	3197.4	2017.7
80°	750.5	791.2	1102.4	1187.9	1055.6	1165.5	2627.9	2101.1	1576.4	1446.2	1045.5
82.5°	593.9	622.4	945.8	899.0	738.3	785.1	1259.0	1226.5	1025.1	933.6	604.1
85°	427.1	480.0	777.0	677.3	484.1	528.8	836.0	801.4	587.8	480.0	266.5
87.5°	174.9	227.8	549.2	449.5	270.5	246.1	417.0	392.6	278.7	203.4	132.2
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°	6134.5	6134.5	6134.5	6134.5	6134.5	6134.5	6134.5	6134.5	6134.5	6134.5	6134.5
2.5°	6128.4	6177.3	6240.3	6279.0	6299.3	6313.5	6335.9	6333.9	6340.0	6342.0	6350.1
5°	6169.1	6250.5	6342.0	6366.4	6366.4	6344.0	6321.7	6285.1	6270.8	6266.8	6270.8
7.5°	6274.9	6364.4	6443.7	6415.2	6354.2	6264.7	6148.8	6047.1	5992.2	5973.9	5969.8
10°	6409.1	6516.9	6549.5	6441.7	6262.7	6047.1	5817.2	5650.5	5554.9	5528.4	5520.3
12.5°	6571.9	6673.6	6628.8	6401.0	6069.5	5721.6	5404.3	5137.9	4938.6	4875.5	4871.4
15°	6750.8	6830.2	6673.6	6274.9	5780.6	5268.1	4702.6	4242.9	3994.8	3915.5	3909.3
17.5°	6917.6	6958.3	6647.1	6055.2	5355.5	4525.7	3775.1	3421.2	3335.8	3356.1	3360.2
20°	7060.0	7060.0	6557.6	5739.9	4686.3	3547.3	3073.4	3067.3	3128.3	3189.3	3201.5
22.5°	7216.6	7123.1	6401.0	5294.5	3738.5	2902.5	2833.4	2890.3	2959.5	3026.6	3036.8
25°	7409.9	7173.9	6183.4	4619.2	2939.1	2636.1	2662.5	2709.3	2743.9	2786.6	2792.7
27.5°	7625.5	7239.0	5896.6	3689.7	2550.6	2469.3	2489.6	2505.9	2501.8	2518.1	2522.2
30°	7883.8	7314.3	5504.0	2884.2	2390.0	2326.9	2290.3	2276.0	2276.0	2302.5	2312.7
32.5°	8229.6	7426.1	4940.6	2471.3	2312.7	2225.2	2107.2	2054.3	2074.7	2164.2	2184.5
35°	8609.9	7546.1	4177.8	2331.0	2296.4	2178.4	1995.4	1897.7	1899.8	1983.2	2009.6
37.5°	9024.9	7698.7	3341.9	2304.5	2333.0	2180.4	1936.4	1802.1	1747.2	1747.2	1757.4
40°	9555.7	7855.3	2705.2	2322.8	2410.3	2204.9	1905.9	1726.9	1572.3	1576.4	1584.5
42.5°	10247.3	7989.6	2363.5	2361.5	2503.9	2237.4	1903.8	1627.2	1493.0	1584.5	1667.9
45°	11016.1	8056.7	2213.0	2396.1	2579.1	2257.7	1871.3	1610.9	1503.1	1775.7	1934.3
47.5°	11900.9	8018.0	2129.6	2408.3	2597.4	2257.7	1834.7	1649.6	1574.3	2056.4	2241.5
50°	12871.2	7906.2	2048.2	2383.8	2591.3	2253.7	1869.2	1688.2	1600.8	2105.2	2233.3
52.5°	14012.2	7812.6	1962.8	2331.0	2548.6	2231.3	1909.9	1671.9	1517.4	1914.0	2003.5
55°	15314.0	7839.0	1867.2	2255.7	2481.5	2188.6	1895.7	1606.9	1429.9	1686.2	1741.1
57.5°	16977.8	8154.3	1753.3	2160.1	2390.0	2117.4	1844.8	1576.4	1403.5	1529.6	1562.1
60°	18834.8	8703.5	1610.9	2064.5	2276.0	2003.5	1806.2	1590.6	1415.7	1517.4	1533.6
62.5°	20197.6	9022.8	1488.9	1924.2	2121.5	1877.4	1757.4	1608.9	1448.2	1560.1	1556.0
65°	20567.8	8498.1	1336.3	1718.7	1912.0	1745.2	1696.4	1629.2	1462.4	1594.7	1576.4
66°	20049.1	7932.6	1269.2	1623.1	1806.2	1680.1	1665.8	1627.2	1456.3	1598.7	1568.2
67.5°	18790.1	6773.2	1153.3	1482.8	1637.4	1582.5	1617.0	1608.9	1440.1	1594.7	1551.9
70°	15324.2	4621.2	986.5	1234.6	1362.8	1393.3	1523.5	1543.8	1387.2	1523.5	1429.9
72.5°	10707.0	2815.1	872.6	958.0	1102.4	1187.9	1395.3	1454.3	1316.0	1330.2	1240.7
75°	5174.5	1495.0	791.2	742.4	856.3	992.6	1240.7	1332.3	1204.1	1112.6	1080.1
77.5°	1613.0	913.3	671.2	598.0	671.2	801.4	1037.3	1167.5	1071.9	931.6	919.4
80°	866.5	671.2	516.6	480.0	530.9	628.5	815.6	974.3	921.4	836.0	746.5
82.5°	571.6	435.3	382.4	372.2	404.8	480.0	606.1	807.5	807.5	716.0	520.7
85°	294.9	266.5	262.4	262.4	282.7	319.3	412.9	622.4	663.1	378.3	313.2
87.5°	146.4	152.6	142.4	148.5	158.7	156.6	197.3	313.2	374.3	229.8	191.2
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)