

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: P191503

Luminaire Tested: **GLEON-AF-05-LED-E1-T3R-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191503
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-05-LED-E1-T3R-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 34133.8 lumens
Efficiency: N/A
Efficacy: 106.7 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

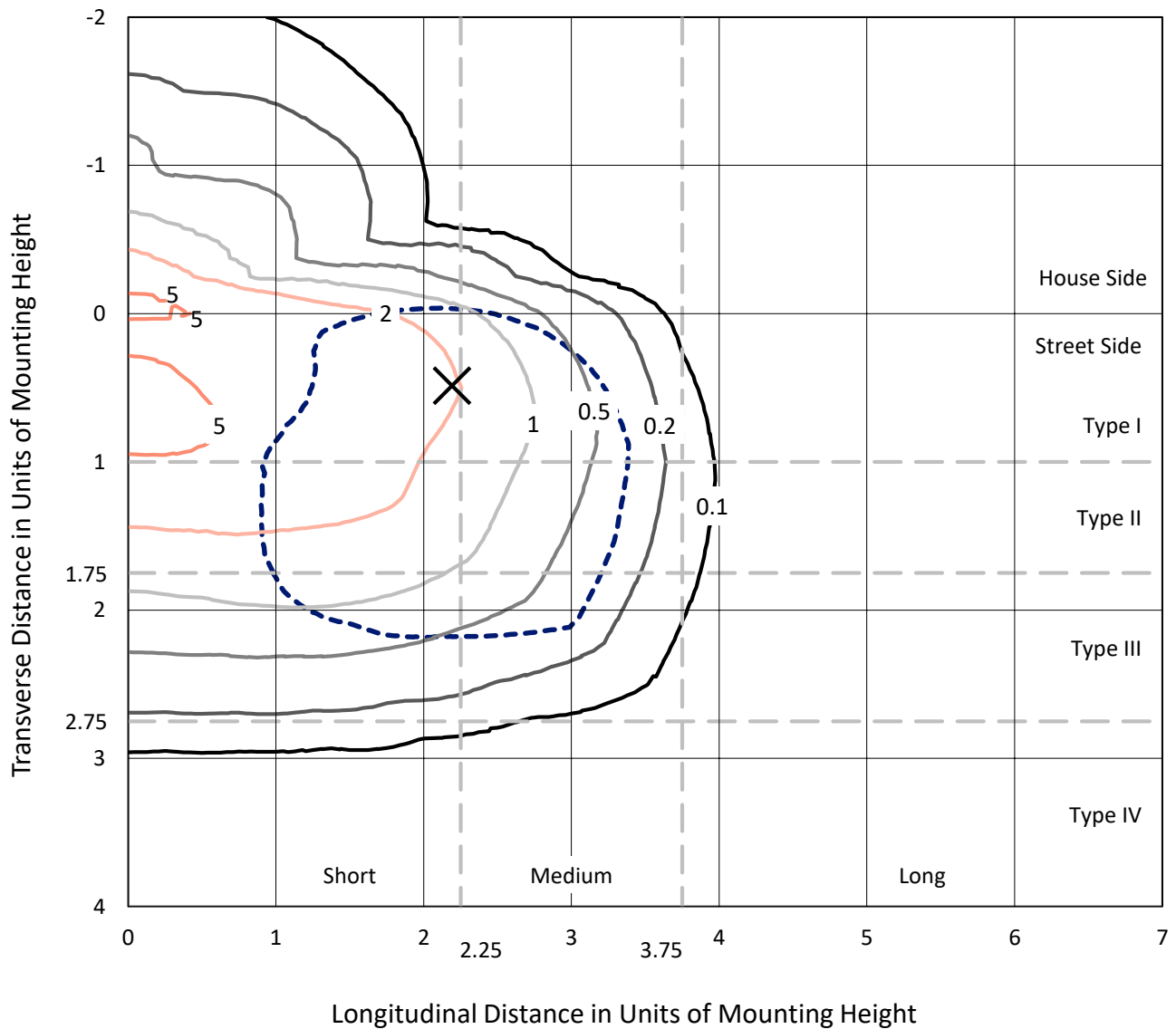
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

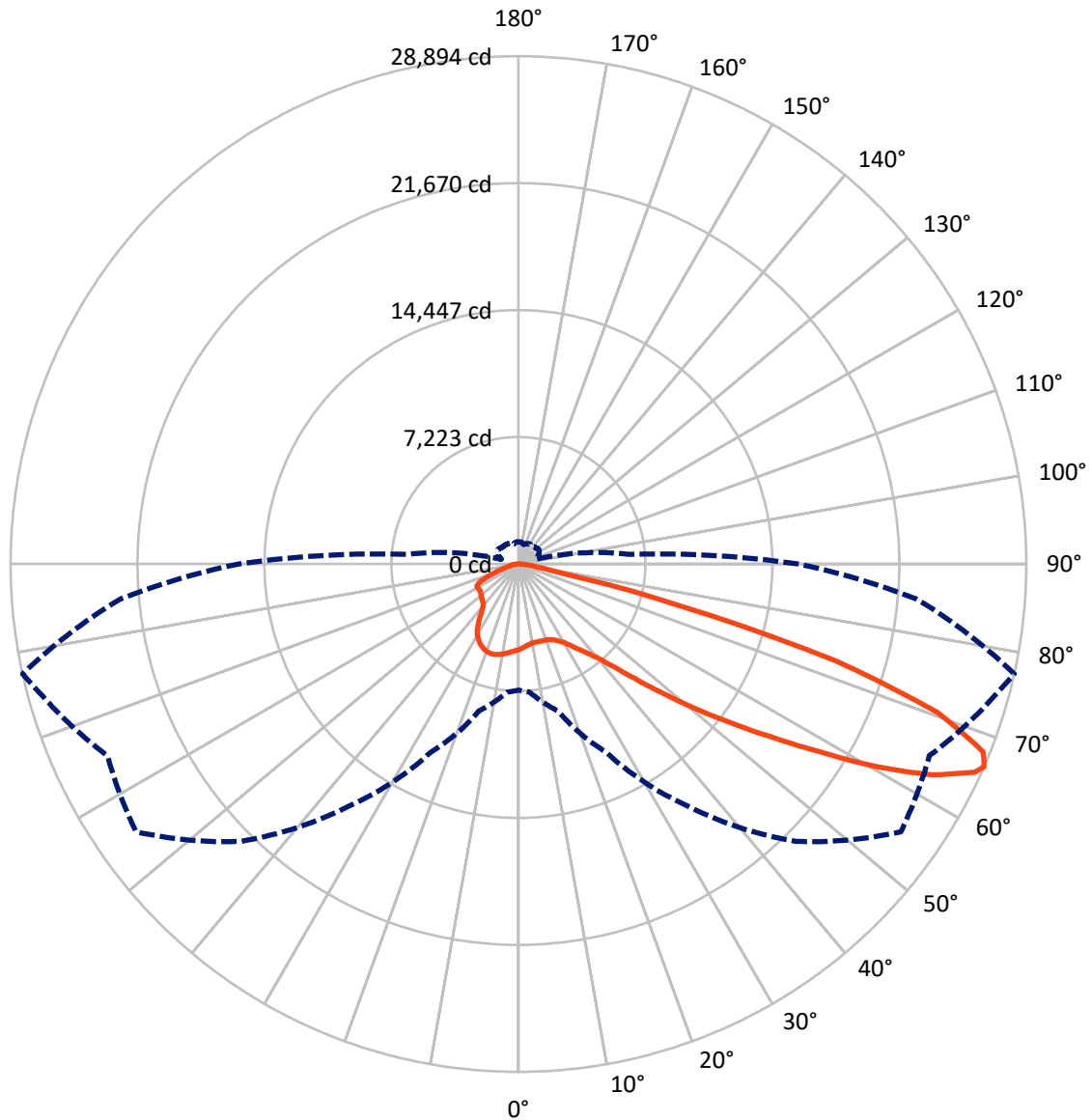
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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	5831.5	0.0	5831.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	28302.3	0.0	28302.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	34133.8	0.0	34133.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.6	1.3
10°-20°	1226.0	3.6
20°-30°	2092.4	6.1
30°-40°	3349.5	9.8
40°-50°	5174.7	15.2
50°-60°	7339.5	21.5
60°-70°	9818.3	28.8
70°-80°	4263.9	12.5
80°-90°	434.8	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°	34133.8	100.0
0°-180°	34133.8	100.0



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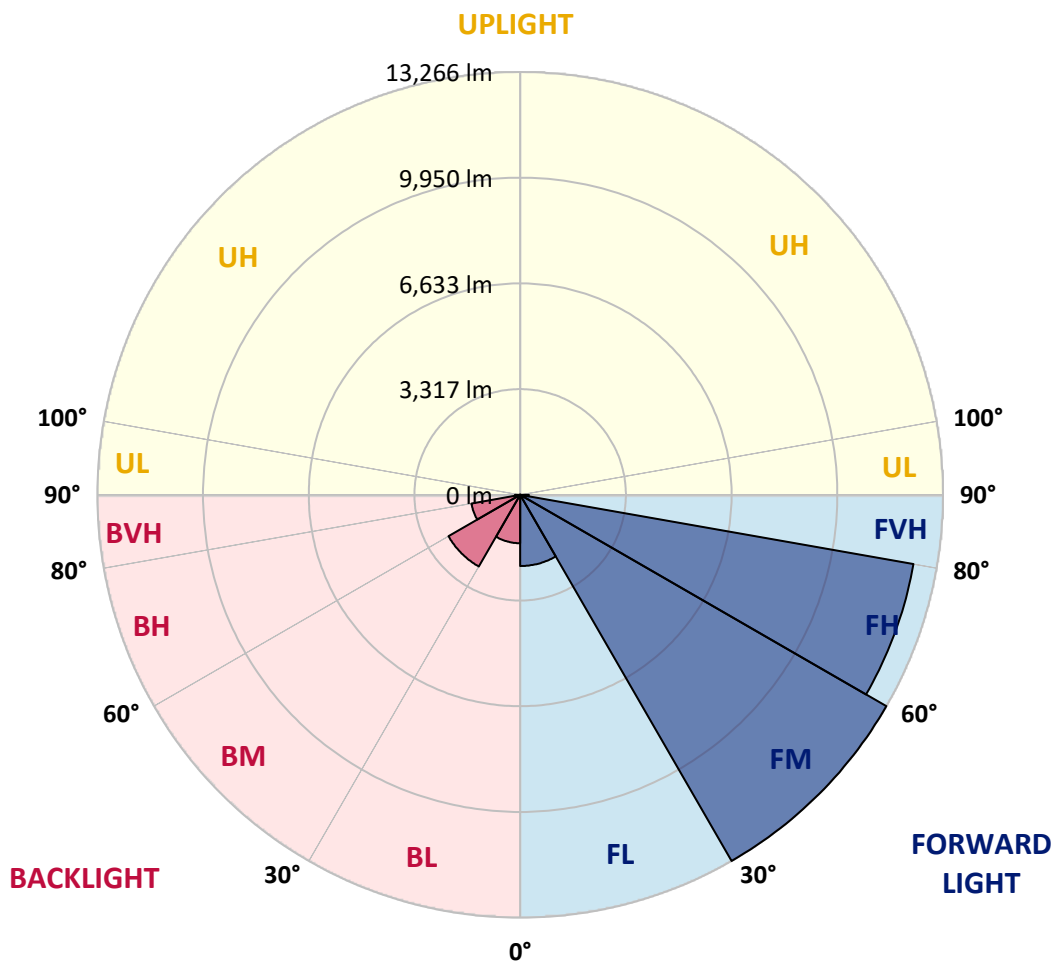
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2234.2	6.5			
FM	(30°-60°)	13266.2	38.9			
FH	(60°-80°)	12529.2	36.7			G5
FVH	(80°-90°)	272.7	0.8			G3/500
BL	(0°-30°)	1518.8	4.4	B3/2500		
BM	(30°-60°)	2597.6	7.6	B3/5000		
BH	(60°-80°)	1553.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	162.1	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°	4864.2	4864.2	4864.2	4864.2	4864.2	4864.2	4864.2	4864.2	4864.2	4864.2	4864.2
2.5°	4302.9	4332.0	4356.2	4378.7	4424.0	4498.1	4583.6	4653.0	4752.9	4772.3	4825.6
5°	3907.9	3907.9	3927.2	3961.1	4022.3	4133.6	4249.7	4404.6	4622.3	4674.0	4815.8
7.5°	3715.9	3717.5	3728.9	3757.8	3811.1	3912.7	4040.0	4222.3	4517.5	4603.0	4844.9
10°	3786.9	3770.7	3746.6	3732.0	3740.1	3799.8	3920.8	4123.9	4453.0	4562.7	4909.3
12.5°	4183.7	4153.0	4069.1	3957.8	3851.4	3807.8	3878.8	4077.2	4425.6	4552.9	4994.9
15°	4832.0	4819.1	4662.6	4432.0	4173.9	3957.8	3909.4	4059.5	4428.8	4564.2	5096.4
17.5°	5644.8	5627.0	5420.6	5085.2	4664.2	4243.3	4017.5	4074.0	4440.0	4583.6	5194.9
20°	6465.8	6410.9	6188.3	5788.4	5248.0	4632.0	4196.6	4111.0	4454.5	4604.6	5298.1
22.5°	7078.6	7033.5	6833.5	6444.8	5822.2	5081.9	4436.8	4175.6	4501.4	4665.9	5425.5
25°	7617.3	7620.5	7422.1	7046.4	6402.9	5559.3	4746.5	4348.2	4620.7	4791.7	5599.6
27.5°	8283.3	8244.7	8059.2	7686.7	6977.0	6041.5	5120.7	4585.2	4798.2	4970.7	5828.7
30°	9080.1	9052.7	8838.2	8415.6	7614.0	6559.3	5548.1	4861.0	5027.1	5206.1	6128.7
32.5°	10017.1	10004.3	9781.7	9238.2	8349.5	7168.9	6049.6	5225.5	5369.1	5554.5	6559.3
35°	11117.1	11118.7	10855.9	10202.6	9154.3	7878.6	6619.0	5694.9	5785.2	5978.6	7072.2
37.5°	11794.5	11876.8	11778.4	11112.2	10065.5	8672.1	7357.7	6317.3	6259.3	6454.5	7622.1
40°	11939.6	12039.6	12350.9	12012.2	11084.8	9546.2	8012.5	6915.8	6843.1	7081.9	8330.2
42.5°	11736.4	11875.1	12533.1	12771.8	12167.1	10623.5	8893.0	7804.4	7712.4	8033.4	9210.8
45°	11615.4	11718.7	12479.9	13167.0	13105.6	11841.3	10014.0	8920.4	8886.6	9307.5	10226.8
47.5°	11405.8	11499.3	12231.5	13258.9	13657.3	12957.3	11360.6	10284.8	10351.0	10902.6	11373.6
50°	11518.7	11557.4	11954.1	13025.0	13816.9	13775.0	12865.3	11865.4	12091.3	12779.9	12671.8
52.5°	11502.6	11602.5	11921.9	12641.2	13837.9	14279.8	14347.5	13628.3	14104.0	14894.3	14112.1
55°	9299.4	9483.4	11542.9	12544.4	13912.1	14775.0	15666.8	15486.1	16373.2	17294.1	15737.8
57.5°	8880.1	8996.2	10138.2	12747.6	14305.7	15720.1	17134.5	17531.2	19015.0	20084.3	17718.3
60°	8797.9	8941.4	10123.6	12996.0	15104.0	17260.2	19310.1	20006.9	22229.3	23400.2	20015.0
62.5°	8541.4	8696.3	10028.4	12963.8	16237.8	19390.9	22095.5	22639.0	25277.5	26416.2	21935.9
65°	7728.6	7873.8	9252.7	12442.9	17002.3	21664.9	25392.1	25051.8	27683.9	28540.2	22893.8
66°	7172.1	7314.1	8641.5	11829.9	16824.8	22309.9	26559.7	25798.5	28222.5	28893.5	22706.7
67.5°	6154.5	6265.8	7454.4	10457.4	15881.3	22490.6	27541.9	26359.7	28279.0	28516.1	21637.5
70°	3888.4	3920.8	4844.9	7219.0	12021.9	19505.3	26046.9	24966.2	25946.8	25304.9	18139.3
72.5°	1686.9	1675.7	2325.7	3672.4	6806.1	13087.9	21069.7	20600.4	20353.7	18889.2	12697.7
75°	938.7	951.5	1208.0	1704.7	2766.0	6428.6	13783.0	13189.5	11136.5	9502.7	5757.7
77.5°	753.2	770.9	1001.6	1209.6	1241.9	2241.8	6449.6	5248.0	3159.5	2535.4	1599.9
80°	595.2	627.4	874.1	941.8	837.1	924.1	2083.8	1666.1	1249.9	1146.7	829.0
82.5°	471.0	493.5	749.9	712.9	585.4	622.6	998.3	972.5	812.8	740.3	479.0
85°	338.7	380.6	616.1	537.0	383.8	419.3	662.9	635.5	466.1	380.6	211.2
87.5°	138.7	180.7	435.5	356.4	214.5	195.2	330.6	311.3	221.0	161.3	104.9
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°	4864.2	4864.2	4864.2	4864.2	4864.2	4864.2	4864.2	4864.2	4864.2	4864.2	4864.2
2.5°	4859.4	4898.1	4948.1	4978.7	4994.9	5006.1	5023.9	5022.3	5027.1	5028.7	5035.2
5°	4891.6	4956.2	5028.7	5048.1	5048.1	5030.4	5012.6	4983.6	4972.3	4969.1	4972.3
7.5°	4975.5	5046.5	5109.3	5086.8	5038.4	4967.4	4875.5	4794.9	4751.3	4736.8	4733.6
10°	5081.9	5167.4	5193.2	5107.8	4965.8	4794.9	4612.6	4480.4	4404.6	4383.7	4377.2
12.5°	5211.0	5291.6	5256.1	5075.5	4812.6	4536.8	4285.2	4074.0	3915.9	3865.9	3862.7
15°	5352.9	5415.8	5291.6	4975.5	4583.6	4177.2	3728.9	3364.3	3167.6	3104.7	3099.8
17.5°	5485.2	5517.4	5270.7	4801.3	4246.6	3588.5	2993.4	2712.8	2645.0	2661.1	2664.4
20°	5598.1	5598.1	5199.7	4551.3	3715.9	2812.7	2437.0	2432.1	2480.5	2528.8	2538.6
22.5°	5722.3	5648.0	5075.5	4198.2	2964.3	2301.4	2246.6	2291.8	2346.6	2399.8	2407.9
25°	5875.4	5688.4	4902.9	3662.7	2330.5	2090.2	2111.2	2148.3	2175.7	2209.6	2214.4
27.5°	6046.5	5740.0	4675.5	2925.6	2022.5	1957.9	1974.1	1987.0	1983.7	1996.7	1999.9
30°	6251.3	5799.6	4364.2	2287.0	1895.0	1845.1	1816.0	1804.7	1804.7	1825.7	1833.7
32.5°	6525.4	5888.4	3917.5	1959.6	1833.7	1764.4	1670.9	1628.9	1645.1	1716.0	1732.2
35°	6827.1	5983.5	3312.7	1848.3	1820.9	1727.4	1582.2	1504.8	1506.4	1572.5	1593.5
37.5°	7156.1	6104.5	2649.9	1827.3	1849.9	1728.9	1535.3	1429.0	1385.4	1385.4	1393.5
40°	7577.0	6228.6	2145.0	1841.8	1911.2	1748.3	1511.2	1369.3	1246.7	1249.9	1256.4
42.5°	8125.3	6335.1	1874.0	1872.5	1985.3	1774.1	1509.6	1290.2	1183.8	1256.4	1322.5
45°	8735.0	6388.3	1754.8	1899.9	2045.1	1790.3	1483.8	1277.4	1191.8	1408.0	1533.8
47.5°	9436.5	6357.7	1688.6	1909.5	2059.5	1790.3	1454.7	1307.9	1248.3	1630.6	1777.3
50°	10205.9	6268.9	1624.1	1890.2	2054.7	1787.0	1482.2	1338.6	1269.3	1669.3	1770.8
52.5°	11110.7	6194.8	1556.3	1848.3	2020.8	1769.3	1514.5	1325.7	1203.2	1517.6	1588.6
55°	12142.8	6215.8	1480.5	1788.6	1967.6	1735.3	1503.1	1274.1	1133.8	1337.0	1380.6
57.5°	13462.1	6465.8	1390.3	1712.8	1895.0	1679.0	1462.8	1249.9	1112.9	1212.8	1238.6
60°	14934.6	6901.2	1277.4	1637.0	1804.7	1588.6	1432.1	1261.2	1122.5	1203.2	1216.1
62.5°	16015.2	7154.4	1180.6	1525.7	1682.1	1488.6	1393.5	1275.7	1148.4	1237.1	1233.8
65°	16308.7	6738.3	1059.6	1362.8	1516.0	1383.7	1345.1	1291.9	1159.6	1264.5	1249.9
66°	15897.5	6289.9	1006.4	1287.0	1432.1	1332.2	1320.9	1290.2	1154.8	1267.6	1243.5
67.5°	14899.2	5370.7	914.4	1175.8	1298.3	1254.8	1282.2	1275.7	1141.8	1264.5	1230.6
70°	12150.9	3664.3	782.3	979.0	1080.5	1104.8	1208.0	1224.2	1100.0	1208.0	1133.8
72.5°	8489.8	2232.1	691.9	759.6	874.1	941.8	1106.4	1153.2	1043.5	1054.8	983.8
75°	4103.0	1185.4	627.4	588.7	679.0	787.1	983.8	1056.4	954.8	882.2	856.4
77.5°	1279.0	724.1	532.2	474.1	532.2	635.5	822.6	925.8	850.0	738.7	729.0
80°	687.0	532.2	409.7	380.6	420.9	498.4	646.7	772.5	730.6	662.9	591.9
82.5°	453.2	345.1	303.2	295.1	320.9	380.6	480.6	640.3	640.3	567.7	412.9
85°	233.8	211.2	208.1	208.1	224.2	253.2	327.4	493.5	525.8	300.0	248.4
87.5°	116.1	120.9	112.9	117.7	125.8	124.2	156.4	248.4	296.8	182.3	151.6
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)