

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: P191476

Luminaire Tested: **GLEON-AF-08-LED-E1-T3R-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191476  
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-08-LED-E1-T3R-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32874.6 lumens  
Efficiency: N/A  
Efficacy: 127.9 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): 257  
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

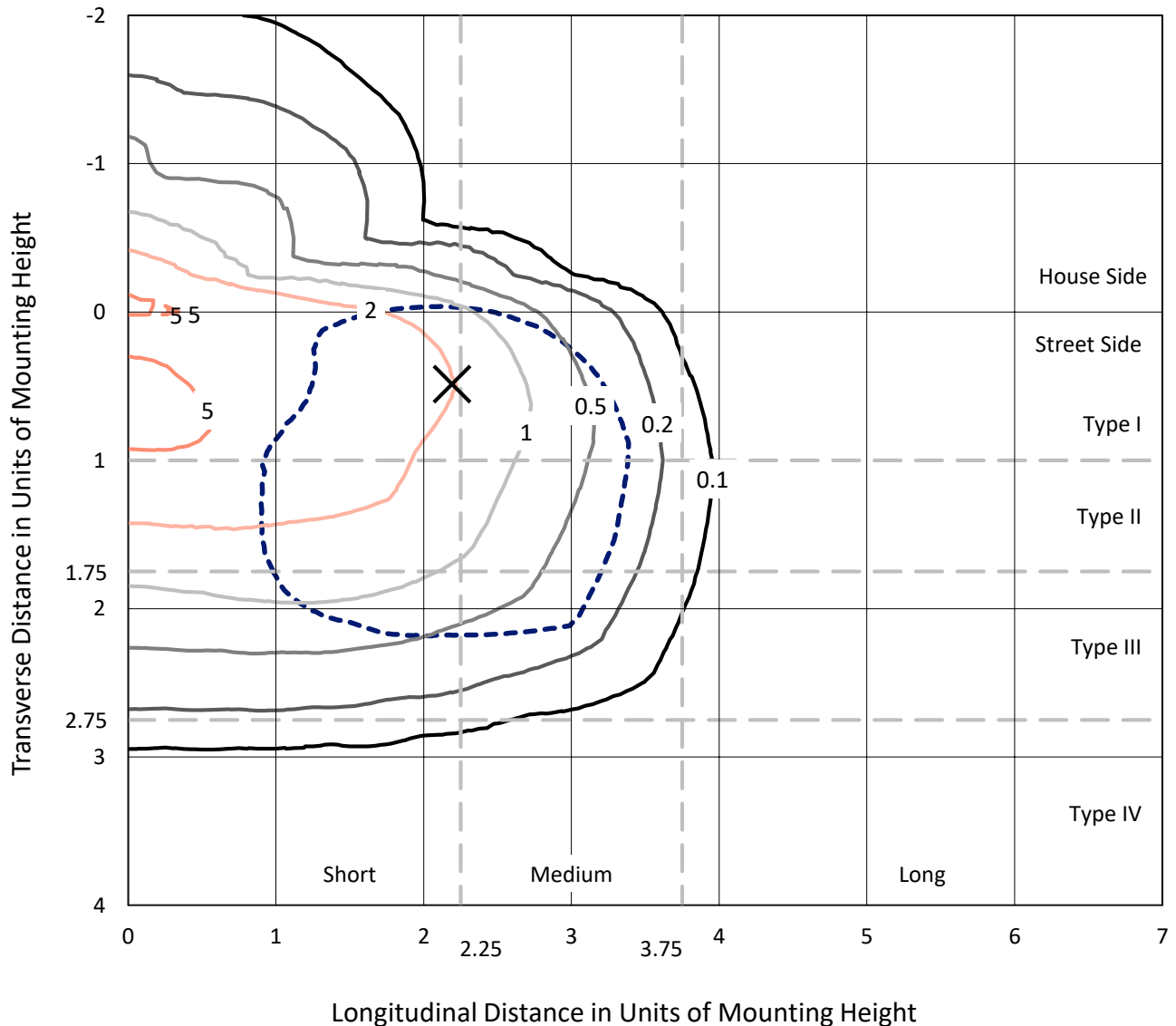


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

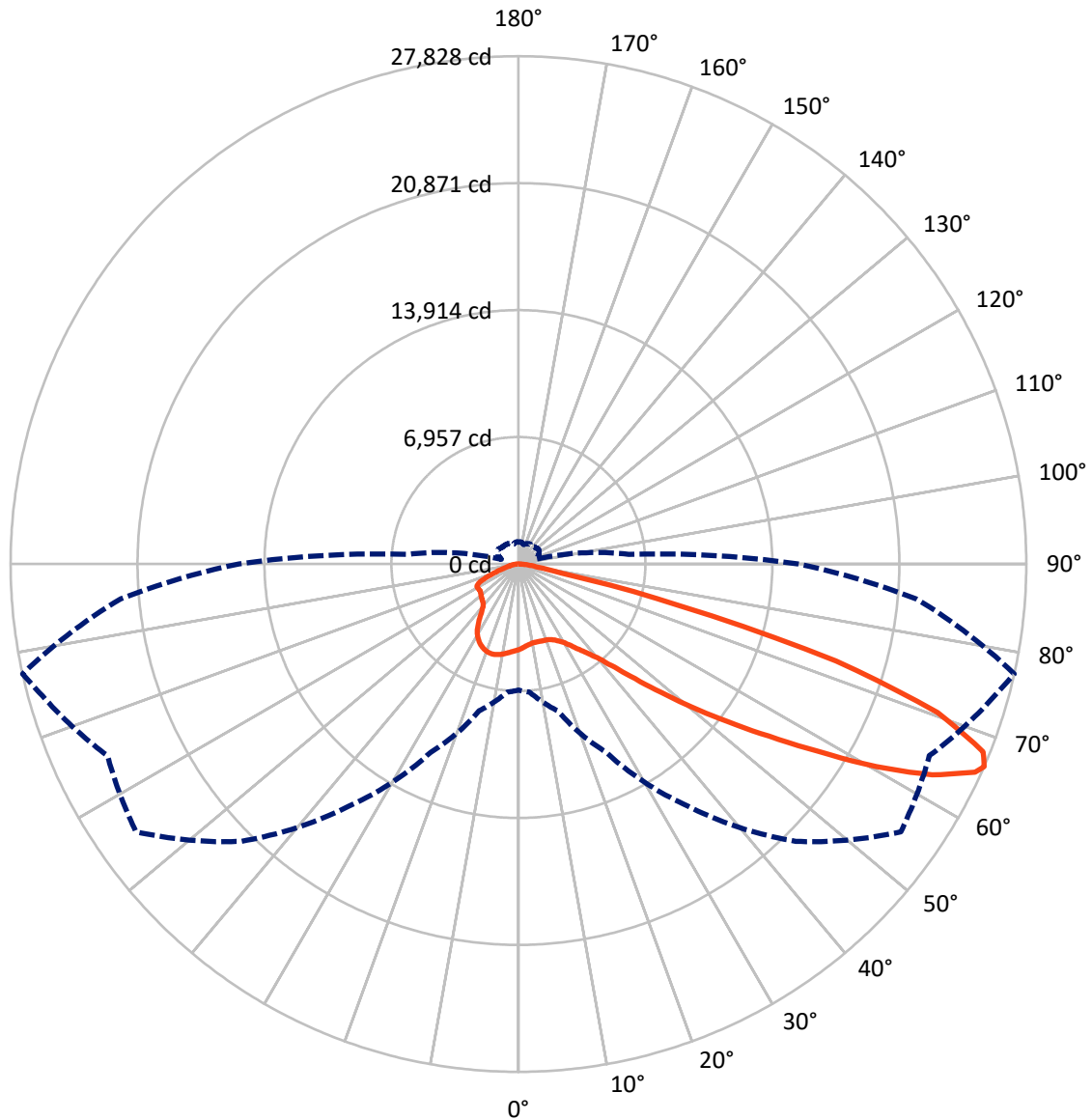


Based on 30 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Short - Full Cutoff

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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
<b>House Side</b>	Lumens	5616.4	0.0	5616.4
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	27258.2	0.0	27258.2
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	32874.6	0.0	32874.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.5	1.3
10°-20°	1180.8	3.6
20°-30°	2015.2	6.1
30°-40°	3226.0	9.8
40°-50°	4983.8	15.2
50°-60°	7068.8	21.5
60°-70°	9456.1	28.8
70°-80°	4106.6	12.5
80°-90°	418.7	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°	32874.6	100.0
0°-180°	32874.6	100.0



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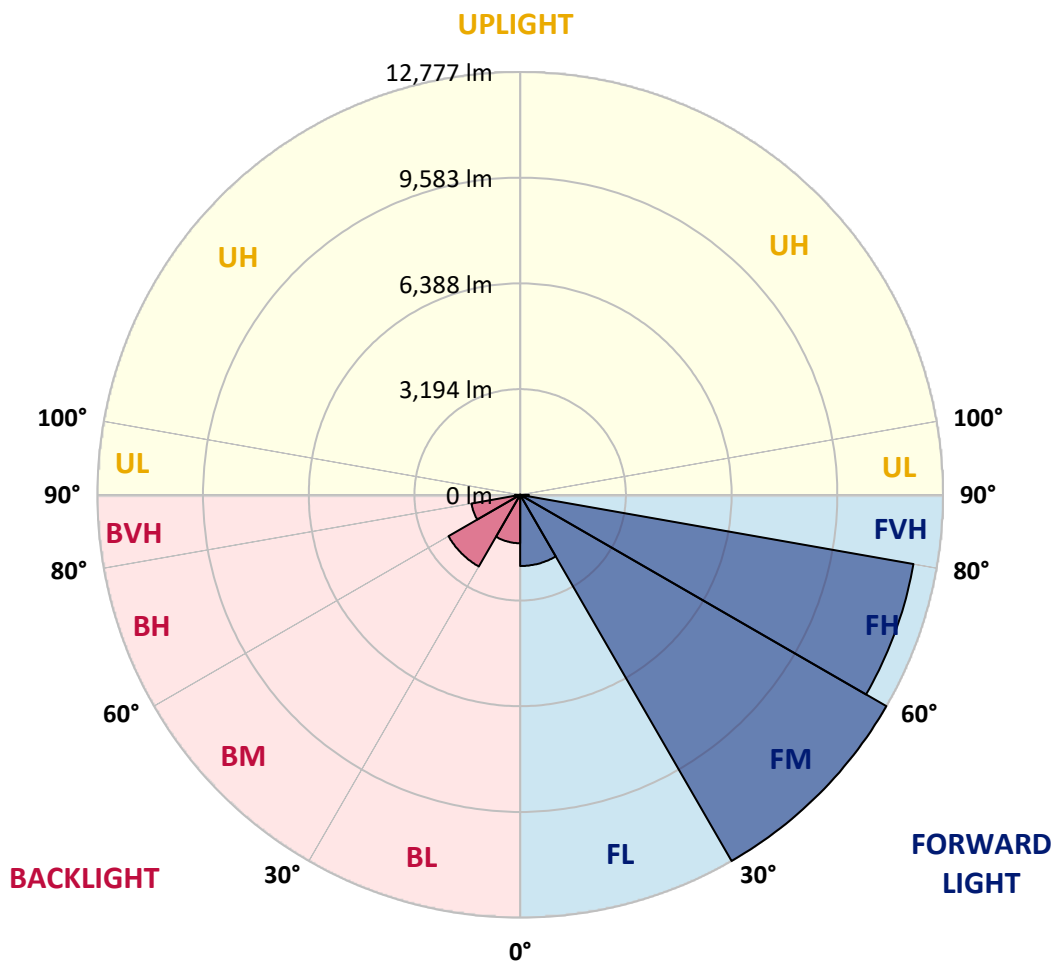
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2151.8	6.5			
FM	(30°-60°)	12776.8	38.9			
FH	(60°-80°)	12067.0	36.7			G5
FVH	(80°-90°)	262.6	0.8			G3/500
BL	(0°-30°)	1462.7	4.4	B3/2500		
BM	(30°-60°)	2501.8	7.6	B3/5000		
BH	(60°-80°)	1495.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	156.1	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°	4684.8	4684.8	4684.8	4684.8	4684.8	4684.8	4684.8	4684.8	4684.8	4684.8	4684.8
2.5°	4144.3	4172.2	4195.5	4217.2	4260.7	4332.2	4414.5	4481.3	4577.6	4596.2	4647.5
5°	3763.6	3763.6	3782.4	3814.9	3873.9	3981.1	4092.9	4242.1	4451.8	4501.5	4638.2
7.5°	3578.8	3580.4	3591.3	3619.2	3670.4	3768.3	3891.0	4066.5	4350.8	4433.2	4666.2
10°	3647.1	3631.7	3608.4	3594.3	3602.1	3659.6	3776.1	3971.8	4288.7	4394.3	4728.3
12.5°	4029.3	3999.7	3919.0	3811.8	3709.3	3667.4	3735.7	3926.8	4262.3	4385.0	4810.6
15°	4653.7	4641.3	4490.7	4268.5	4020.0	3811.8	3765.2	3909.7	4265.4	4395.8	4908.4
17.5°	5436.6	5419.5	5220.6	4897.6	4492.2	4086.8	3869.3	3923.6	4276.2	4414.5	5003.3
20°	6227.2	6174.4	5960.0	5574.9	5054.5	4461.1	4041.7	3959.4	4290.3	4434.7	5102.6
22.5°	6817.5	6774.0	6581.4	6207.1	5607.4	4894.5	4273.2	4021.5	4335.3	4493.7	5225.3
25°	7336.3	7339.4	7148.4	6786.5	6166.7	5354.2	4571.4	4187.8	4450.2	4614.8	5393.1
27.5°	7977.8	7940.6	7761.8	7403.1	6719.7	5818.7	4931.7	4416.1	4621.1	4787.3	5613.6
30°	8745.1	8718.7	8512.2	8105.1	7333.1	6317.3	5343.4	4681.6	4841.6	5014.1	5902.5
32.5°	9647.7	9635.2	9420.9	8897.3	8041.5	6904.5	5826.4	5032.7	5171.0	5349.6	6317.3
35°	10706.9	10708.6	10455.4	9826.3	8816.6	7587.9	6374.8	5484.8	5571.7	5758.1	6811.2
37.5°	11359.4	11438.5	11343.8	10702.3	9694.2	8352.2	7086.2	6084.3	6028.4	6216.4	7340.9
40°	11499.2	11595.5	11895.3	11569.1	10675.9	9194.1	7716.8	6660.6	6590.7	6820.6	8022.8
42.5°	11303.4	11437.0	12070.8	12300.7	11718.2	10231.7	8565.0	7516.4	7428.0	7737.0	8870.9
45°	11186.9	11286.3	12019.5	12681.2	12622.2	11404.4	9644.5	8591.4	8558.7	8964.1	9849.6
47.5°	10985.0	11075.1	11780.3	12769.8	13153.4	12479.3	10941.5	9905.4	9969.2	10500.4	10954.0
50°	11093.7	11131.0	11513.1	12544.5	13307.2	13266.9	12390.8	11427.7	11645.2	12308.5	12204.3
52.5°	11078.3	11174.5	11482.1	12174.9	13327.4	13753.0	13818.2	13125.5	13583.7	14344.8	13591.4
55°	8956.3	9133.4	11117.0	12081.7	13398.8	14229.9	15088.8	14914.9	15769.2	16656.1	15157.2
57.5°	8552.5	8664.4	9764.1	12277.4	13777.8	15140.1	16502.3	16884.5	18313.5	19343.4	17064.7
60°	8473.3	8611.5	9750.2	12516.6	14546.8	16623.6	18597.8	19268.8	21409.2	22536.9	19276.6
62.5°	8226.4	8375.4	9658.5	12485.5	15638.8	18675.4	21280.3	21803.8	24345.0	25441.7	21126.6
65°	7443.5	7583.2	8911.3	11983.8	16375.0	20865.6	24455.3	24127.5	26662.6	27487.4	22049.2
66°	6907.6	7044.2	8322.6	11393.5	16204.2	21487.0	25579.9	24846.8	27181.3	27827.5	21869.1
67.5°	5927.4	6034.6	7179.4	10071.7	15295.5	21660.9	26525.8	25387.3	27235.8	27464.1	20839.2
70°	3745.0	3776.1	4666.2	6952.6	11578.4	18785.8	25085.9	24045.3	24989.7	24371.4	17470.1
72.5°	1624.8	1613.9	2239.9	3536.9	6555.0	12605.1	20292.5	19840.4	19602.8	18192.4	12229.2
75°	904.0	916.5	1163.4	1641.8	2664.0	6191.5	13274.6	12703.0	10725.6	9152.1	5545.3
77.5°	725.4	742.5	964.6	1164.9	1196.0	2159.1	6211.7	5054.5	3043.0	2441.8	1540.9
80°	573.2	604.3	841.9	907.2	806.2	890.1	2006.9	1604.6	1203.8	1104.4	798.4
82.5°	453.6	475.3	722.3	686.6	563.9	599.6	961.5	936.6	782.9	713.0	461.4
85°	326.2	366.6	593.4	517.2	369.7	403.9	638.4	612.0	448.9	366.6	203.5
87.5°	133.6	174.0	419.4	343.3	206.6	187.9	318.4	299.8	212.8	155.3	101.0
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°	4684.8	4684.8	4684.8	4684.8	4684.8	4684.8	4684.8	4684.8	4684.8	4684.8	4684.8
2.5°	4680.1	4717.4	4765.5	4795.1	4810.6	4821.5	4838.6	4837.0	4841.6	4843.3	4849.4
5°	4711.2	4773.3	4843.3	4861.9	4861.9	4844.8	4827.7	4799.7	4788.8	4785.8	4788.8
7.5°	4791.9	4860.3	4920.9	4899.1	4852.6	4784.2	4695.7	4618.0	4576.1	4562.1	4559.0
10°	4894.5	4976.8	5001.6	4919.4	4782.6	4618.0	4442.5	4315.1	4242.1	4221.9	4215.7
12.5°	5018.7	5096.4	5062.3	4888.3	4635.1	4369.4	4127.1	3923.6	3771.4	3723.2	3720.2
15°	5155.5	5216.0	5096.4	4791.9	4414.5	4023.1	3591.3	3240.2	3050.7	2990.1	2985.5
17.5°	5282.8	5313.9	5076.2	4624.2	4089.9	3456.1	2883.0	2612.6	2547.5	2563.0	2566.1
20°	5391.6	5391.6	5007.9	4383.4	3578.8	2709.0	2347.1	2342.4	2389.0	2435.5	2445.0
22.5°	5511.1	5439.6	4888.3	4043.3	2855.0	2216.5	2163.7	2207.2	2260.1	2311.4	2319.1
25°	5658.7	5478.5	4722.0	3527.5	2244.6	2013.1	2033.3	2069.0	2095.4	2128.0	2132.6
27.5°	5823.4	5528.2	4503.0	2817.7	1947.8	1885.7	1901.3	1913.6	1910.6	1923.0	1926.1
30°	6020.7	5585.7	4203.3	2202.6	1825.1	1777.0	1749.0	1738.2	1738.2	1758.4	1766.1
32.5°	6284.7	5671.1	3772.9	1887.2	1766.1	1699.3	1609.2	1568.8	1584.3	1652.7	1668.2
35°	6575.1	5762.8	3190.5	1780.1	1753.6	1663.6	1523.8	1449.2	1450.7	1514.5	1534.6
37.5°	6892.0	5879.3	2552.1	1759.9	1781.7	1665.2	1478.8	1376.3	1334.3	1334.3	1342.0
40°	7297.4	5998.9	2066.0	1773.9	1840.7	1683.8	1455.5	1318.8	1200.7	1203.8	1210.0
42.5°	7825.6	6101.4	1805.0	1803.4	1912.1	1708.6	1453.9	1242.7	1140.1	1210.0	1273.7
45°	8412.7	6152.6	1690.0	1829.8	1969.6	1724.2	1429.1	1230.2	1147.9	1356.0	1477.2
47.5°	9088.4	6123.2	1626.3	1839.2	1983.6	1724.2	1401.1	1259.8	1202.3	1570.4	1711.7
50°	9829.3	6037.8	1564.2	1820.4	1978.9	1721.1	1427.5	1289.2	1222.4	1607.7	1705.6
52.5°	10700.8	5966.3	1498.9	1780.1	1946.3	1704.0	1458.5	1276.8	1158.8	1461.7	1530.0
55°	11694.9	5986.4	1425.9	1722.6	1895.0	1671.4	1447.7	1227.1	1092.0	1287.7	1329.6
57.5°	12965.5	6227.2	1338.9	1649.6	1825.1	1617.0	1408.8	1203.8	1071.7	1168.1	1193.0
60°	14383.6	6646.6	1230.2	1576.6	1738.2	1530.0	1379.3	1214.7	1081.1	1158.8	1171.2
62.5°	15424.4	6890.5	1137.0	1469.5	1620.1	1433.7	1342.0	1228.7	1105.9	1191.4	1188.3
65°	15707.1	6489.7	1020.5	1312.5	1460.2	1332.7	1295.5	1244.2	1116.9	1217.8	1203.8
66°	15311.0	6057.9	969.2	1239.5	1379.3	1283.0	1272.1	1242.7	1112.2	1220.9	1197.6
67.5°	14349.4	5172.6	880.8	1132.4	1250.5	1208.5	1234.9	1228.7	1099.8	1217.8	1185.2
70°	11702.7	3529.1	753.4	942.9	1040.8	1064.0	1163.4	1179.0	1059.4	1163.4	1092.0
72.5°	8176.7	2149.7	666.4	731.6	841.9	907.2	1065.6	1110.6	1004.9	1015.9	947.6
75°	3951.7	1141.7	604.3	566.9	654.0	758.0	947.6	1017.4	919.5	849.7	824.8
77.5°	1231.7	697.4	512.6	456.6	512.6	612.0	792.2	891.6	818.6	711.5	702.1
80°	661.7	512.6	394.6	366.6	405.4	480.0	622.9	744.0	703.7	638.4	570.1
82.5°	436.5	332.5	292.1	284.3	309.1	366.6	462.9	616.6	616.6	546.8	397.6
85°	225.3	203.5	200.4	200.4	215.9	243.9	315.3	475.3	506.4	288.9	239.2
87.5°	111.8	116.5	108.7	113.3	121.1	119.6	150.7	239.2	285.8	175.5	146.0
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)