

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: P191558

Luminaire Tested: **GLEON-AF-10-LED-E1-T4W-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-T4W-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39431.7 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

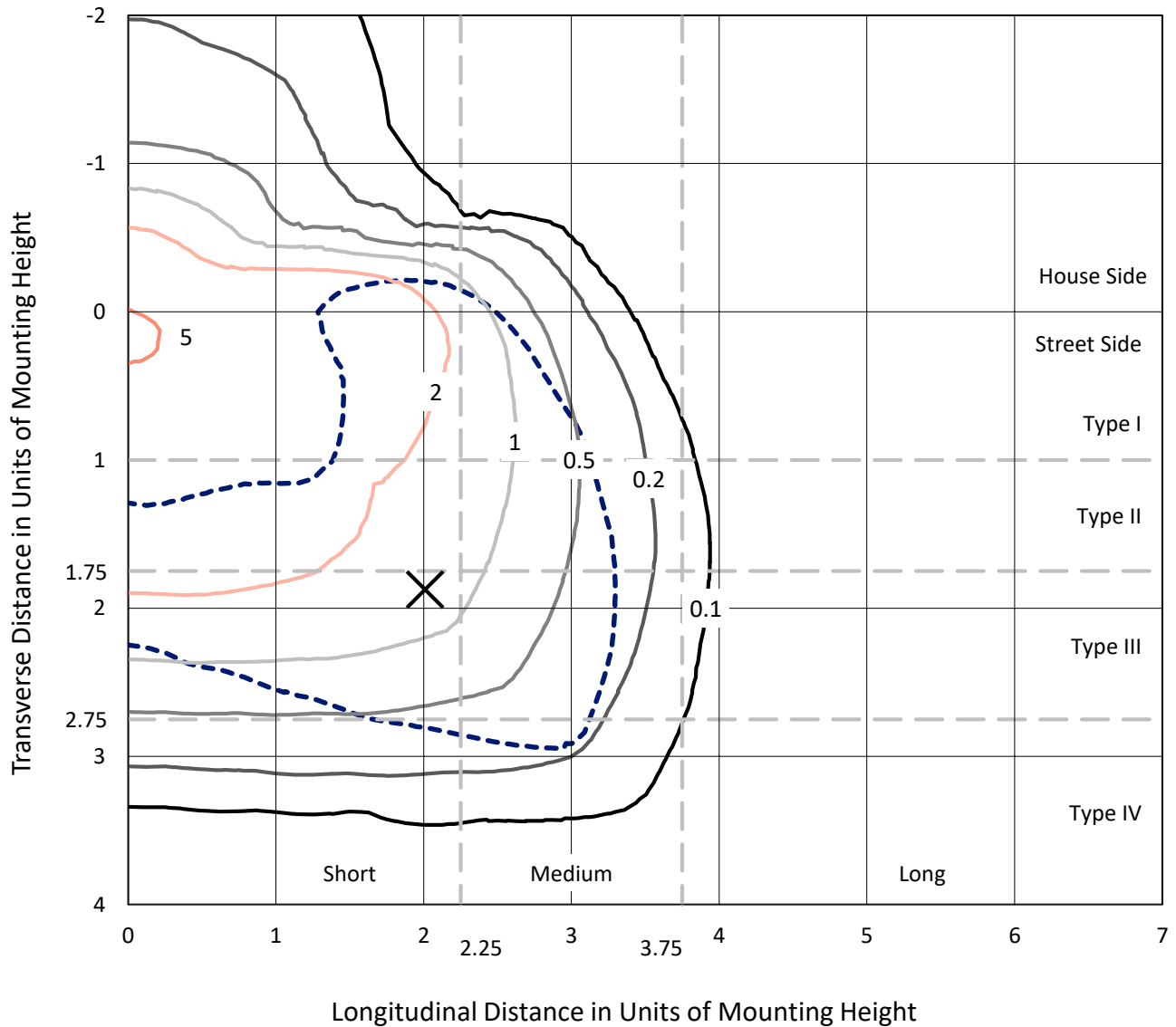
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

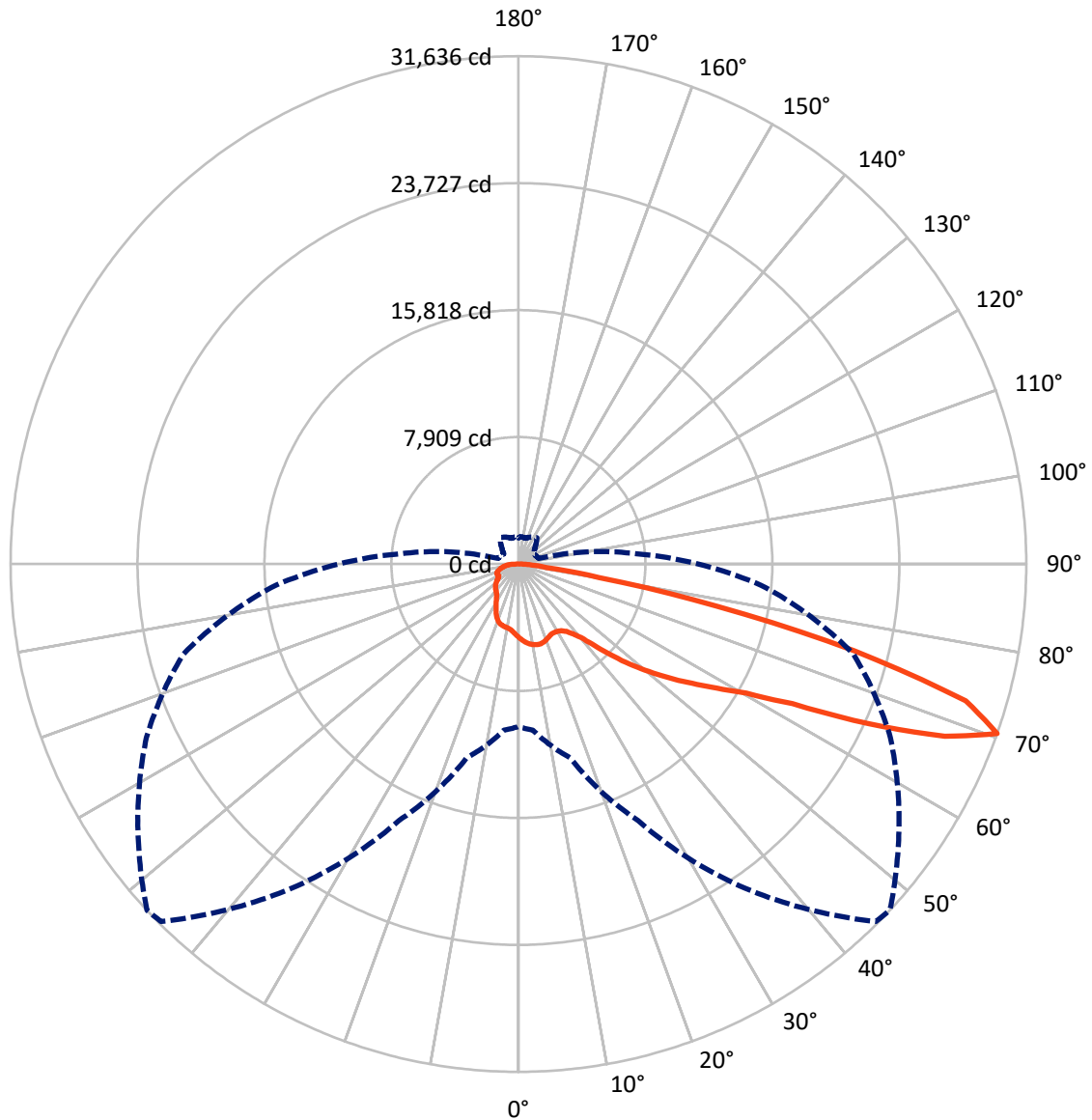
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8226.2	0.0	8226.2
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	31205.5	0.0	31205.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	39431.7	0.0	39431.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.4	1.1
10°-20°	1286.1	3.3
20°-30°	1899.3	4.8
30°-40°	2760.5	7.0
40°-50°	4968.0	12.6
50°-60°	8606.5	21.8
60°-70°	12284.0	31.2
70°-80°	6305.9	16.0
80°-90°	882.9	2.2
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°	39431.7	100.0
0°-180°	39431.7	100.0

Coefficient of Utilization



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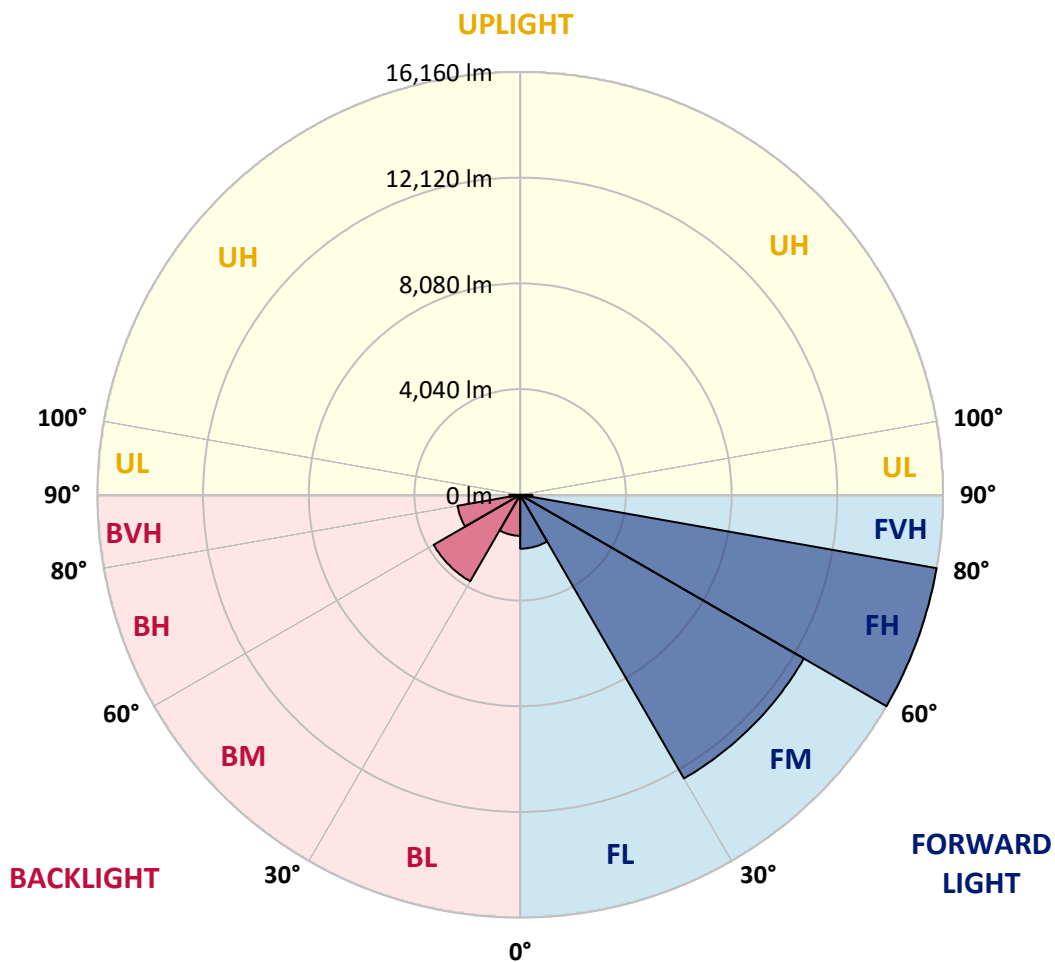
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2057.5	5.2			
FM	(30°-60°)	12516.7	31.7			
FH	(60°-80°)	16160.2	41.0			G5
FVH	(80°-90°)	471.1	1.2			G3/500
BL	(0°-30°)	1566.3	4.0	B3/2500		
BM	(30°-60°)	3818.4	9.7	B3/5000		
BH	(60°-80°)	2429.8	6.2	B3/2500		G3/2500
BVH	(80°-90°)	411.8	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4575.4	4575.4	4575.4	4575.4	4575.4	4575.4	4575.4	4575.4	4575.4	4575.4	4575.4
2.5°	4843.9	4834.3	4830.5	4822.8	4813.2	4765.2	4755.6	4721.1	4673.1	4623.2	4571.5
5°	5162.3	5160.4	5139.3	5100.9	5039.6	4934.0	4909.1	4824.6	4711.5	4602.2	4492.8
7.5°	5442.4	5425.1	5384.8	5308.1	5200.7	5056.9	5022.3	4905.3	4749.9	4600.2	4452.5
10°	5647.7	5638.1	5549.8	5444.3	5304.3	5145.0	5104.7	4974.3	4803.6	4613.7	4429.5
12.5°	5764.7	5745.5	5643.8	5517.2	5350.3	5195.0	5154.6	5022.3	4830.5	4613.7	4396.8
15°	5757.1	5743.6	5641.9	5503.8	5335.0	5198.7	5162.3	5030.0	4824.6	4594.5	4354.7
17.5°	5603.5	5609.4	5523.0	5386.8	5248.7	5145.0	5112.4	4989.6	4786.3	4556.1	4304.8
20°	5335.0	5361.8	5304.3	5183.4	5106.7	5035.7	5014.6	4911.0	4726.9	4500.5	4251.1
22.5°	5066.4	5091.3	5068.3	4966.6	4955.2	4912.9	4901.5	4826.6	4675.1	4466.0	4218.4
25°	4868.8	4891.9	4888.0	4799.8	4834.3	4832.3	4822.8	4786.3	4663.5	4466.0	4224.3
27.5°	4815.1	4822.8	4815.1	4734.5	4782.5	4820.9	4813.2	4807.5	4698.1	4521.5	4297.1
30°	4999.3	4987.7	4928.3	4765.2	4809.3	4863.1	4855.3	4859.2	4801.6	4667.4	4460.2
32.5°	5733.9	5682.2	5494.2	5035.7	4918.7	4947.5	4951.3	5014.6	5024.2	4891.9	4713.5
35°	6833.2	6775.7	6532.1	5760.8	5258.3	5158.5	5158.5	5254.4	5312.0	5214.1	5106.7
37.5°	7997.6	7934.3	7803.9	6766.1	5971.9	5524.9	5515.3	5582.4	5664.9	5687.9	5714.8
40°	9321.3	9254.2	9290.6	7894.1	6967.5	6159.9	6023.6	5975.7	6198.3	6346.0	6560.8
42.5°	10769.7	10739.0	10752.4	9150.6	8101.3	7109.5	6915.7	6668.2	6936.8	7199.6	7650.4
45°	12110.6	12137.5	12124.1	10495.4	9363.6	8268.2	8062.9	7583.3	7846.1	8296.9	9031.6
47.5°	13284.7	13173.5	13346.0	11964.8	10777.4	9565.0	9311.7	8669.1	8935.8	9492.1	10735.2
50°	14710.0	14694.7	14441.5	13925.4	12486.6	10867.5	10535.7	9791.4	10205.7	10978.8	12881.8
52.5°	16208.2	15930.1	15698.0	15450.5	14299.5	12202.7	11796.1	10909.8	11698.2	12670.8	15498.5
55°	16515.2	16390.5	16678.3	17094.5	16047.1	13589.7	13115.9	12312.0	13378.7	14604.6	18516.0
57.5°	17171.3	17169.4	17764.1	18506.5	17846.6	15061.1	14583.4	14006.0	15268.3	16820.3	21719.7
60°	17614.4	17739.1	18844.1	20284.8	19613.3	16760.7	16321.5	15960.8	17416.9	19296.8	24704.7
62.5°	17846.6	18015.4	19523.2	21006.1	22111.1	19590.3	19151.1	18631.2	20259.8	22013.3	26450.4
65°	16881.7	17213.5	19417.7	21629.6	24298.0	24177.1	23979.6	23066.4	23814.6	24160.0	25819.3
67.5°	14211.2	14550.8	17117.5	21048.3	25859.6	28600.9	28643.1	27083.4	26001.6	24344.1	21708.2
70°	10125.2	10391.7	12515.4	17647.0	24670.2	31491.8	31635.8	28934.7	25566.1	21589.3	15166.6
72.5°	4807.5	4970.5	6980.9	11485.3	19576.9	28854.2	29132.3	26571.2	21738.9	15983.8	8273.9
75°	1766.8	1816.7	2359.6	4886.1	11354.9	21278.5	21606.6	19047.4	14410.7	7957.4	3151.9
77.5°	1059.0	1091.6	1323.7	2062.3	4466.0	12162.5	12647.8	10359.2	6298.0	2962.0	1550.1
80°	740.5	763.5	949.6	1283.4	2110.2	4634.8	5066.4	4228.1	2509.2	1874.3	1128.0
82.5°	500.7	512.2	667.6	867.1	1402.4	1655.5	1786.0	1880.0	1692.0	1394.7	715.6
85°	328.1	339.5	452.8	571.6	892.0	855.6	874.7	1106.9	1235.4	947.7	397.1
87.5°	188.0	195.7	272.4	305.0	437.4	362.5	366.4	583.2	790.3	638.8	241.7
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°	4575.4	4575.4	4575.4	4575.4	4575.4	4575.4	4575.4	4575.4	4575.4	4575.4	4575.4
2.5°	4558.1	4533.1	4477.5	4443.0	4410.4	4402.7	4389.2	4387.3	4385.4	4385.4	4379.7
5°	4456.4	4414.1	4327.8	4279.9	4239.6	4235.7	4233.8	4243.4	4247.3	4251.1	4245.3
7.5°	4391.1	4333.6	4226.1	4157.1	4109.1	4097.6	4116.8	4161.0	4189.7	4201.3	4195.4
10°	4350.8	4279.9	4155.2	4080.3	4040.0	4034.3	4059.3	4111.0	4170.6	4193.6	4191.6
12.5°	4304.8	4224.3	4091.9	4013.2	3990.2	4001.7	4034.3	4082.3	4143.7	4180.1	4182.0
15°	4258.7	4164.7	4028.6	3959.5	3949.9	3965.3	3996.0	4032.4	4080.3	4116.8	4120.7
17.5°	4203.1	4105.3	3969.0	3898.2	3890.5	3898.2	3900.0	3919.2	3949.9	3984.5	3994.0
20°	4143.7	4043.9	3901.9	3831.0	3796.5	3765.8	3731.2	3735.1	3744.6	3779.2	3786.9
22.5°	4101.4	4001.7	3850.2	3752.3	3660.2	3568.2	3499.1	3489.5	3493.4	3522.1	3531.7
25°	4105.3	3999.8	3836.8	3667.9	3466.5	3318.8	3226.7	3211.3	3209.4	3230.5	3244.0
27.5°	4180.1	4074.6	3886.6	3581.6	3255.4	3036.7	2938.9	2927.4	2912.0	2917.9	2933.2
30°	4347.0	4249.1	4007.5	3493.4	3027.2	2760.5	2658.9	2647.3	2626.2	2616.6	2628.2
32.5°	4619.4	4538.8	4184.0	3409.0	2798.9	2524.5	2421.0	2396.1	2382.7	2371.1	2380.7
35°	5072.2	5037.6	4420.0	3316.8	2597.5	2342.4	2248.3	2210.0	2190.8	2211.9	2227.3
37.5°	5781.9	5801.2	4728.8	3173.0	2442.1	2221.4	2142.8	2098.7	2069.9	2087.2	2104.4
40°	6787.2	6800.6	5070.3	2969.6	2307.8	2150.4	2066.1	2025.7	1985.5	1954.9	1952.9
42.5°	8107.0	7970.8	5406.0	2749.0	2152.4	2106.4	2012.3	1962.5	1901.1	1816.7	1799.5
45°	9672.4	9194.7	5661.1	2495.8	1977.9	2052.7	1952.9	1883.9	1787.9	1695.8	1686.2
47.5°	11475.7	10508.8	5785.8	2233.0	1814.8	1974.0	1880.0	1770.6	1649.8	1603.8	1598.0
50°	13678.0	12068.5	5845.2	1977.9	1672.8	1870.4	1774.5	1645.9	1544.2	1534.7	1528.9
52.5°	16185.2	13944.6	5864.5	1768.8	1555.8	1736.2	1688.2	1563.5	1482.9	1490.5	1490.5
55°	18809.6	15882.1	5603.5	1617.2	1448.4	1598.0	1630.6	1530.8	1463.7	1494.4	1505.9
57.5°	21219.1	17599.1	4782.5	1500.2	1346.7	1492.5	1609.5	1561.5	1515.5	1640.2	1647.9
60°	23068.4	18613.9	3572.0	1394.7	1271.8	1456.1	1665.2	1678.6	1690.1	1987.4	2027.7
62.5°	23455.9	18276.2	2455.5	1312.1	1237.4	1486.8	1766.8	1768.8	1755.3	1962.5	1987.4
65°	21677.6	16141.1	1786.0	1266.1	1208.6	1542.4	1853.2	1812.9	1724.6	1881.9	1835.9
67.5°	17215.4	12160.5	1486.8	1231.6	1166.4	1538.5	1945.2	1853.2	1707.3	1843.6	1768.8
70°	11174.5	7353.1	1323.7	1202.8	1116.4	1465.6	1998.9	1849.3	1657.5	1715.0	1626.8
72.5°	5452.0	3288.1	1214.3	1160.6	1064.7	1364.0	1997.0	1814.8	1605.6	1601.8	1553.9
75°	2133.3	1505.9	1114.6	1097.3	976.4	1248.8	1943.3	1764.9	1544.2	1482.9	1465.6
77.5°	1248.8	1074.3	988.0	1003.3	870.9	1133.7	1864.6	1678.6	1459.9	1387.0	1367.8
80°	909.3	803.8	842.2	867.1	744.3	1018.7	1759.2	1573.1	1365.8	1402.4	1375.5
82.5°	583.2	517.9	682.9	707.9	619.6	901.6	1644.1	1461.8	1233.5	1120.3	1093.4
85°	297.4	328.1	508.4	539.1	477.7	740.5	1504.0	1314.1	1083.9	932.3	947.7
87.5°	166.9	224.4	324.2	362.5	337.7	569.8	1220.1	1083.9	884.3	719.3	633.1
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)