

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: P193217

Luminaire Tested: **GLEON-AF-09-LED-E1-T3R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193217
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-09-LED-E1-T3R-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 34671.2 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 290
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



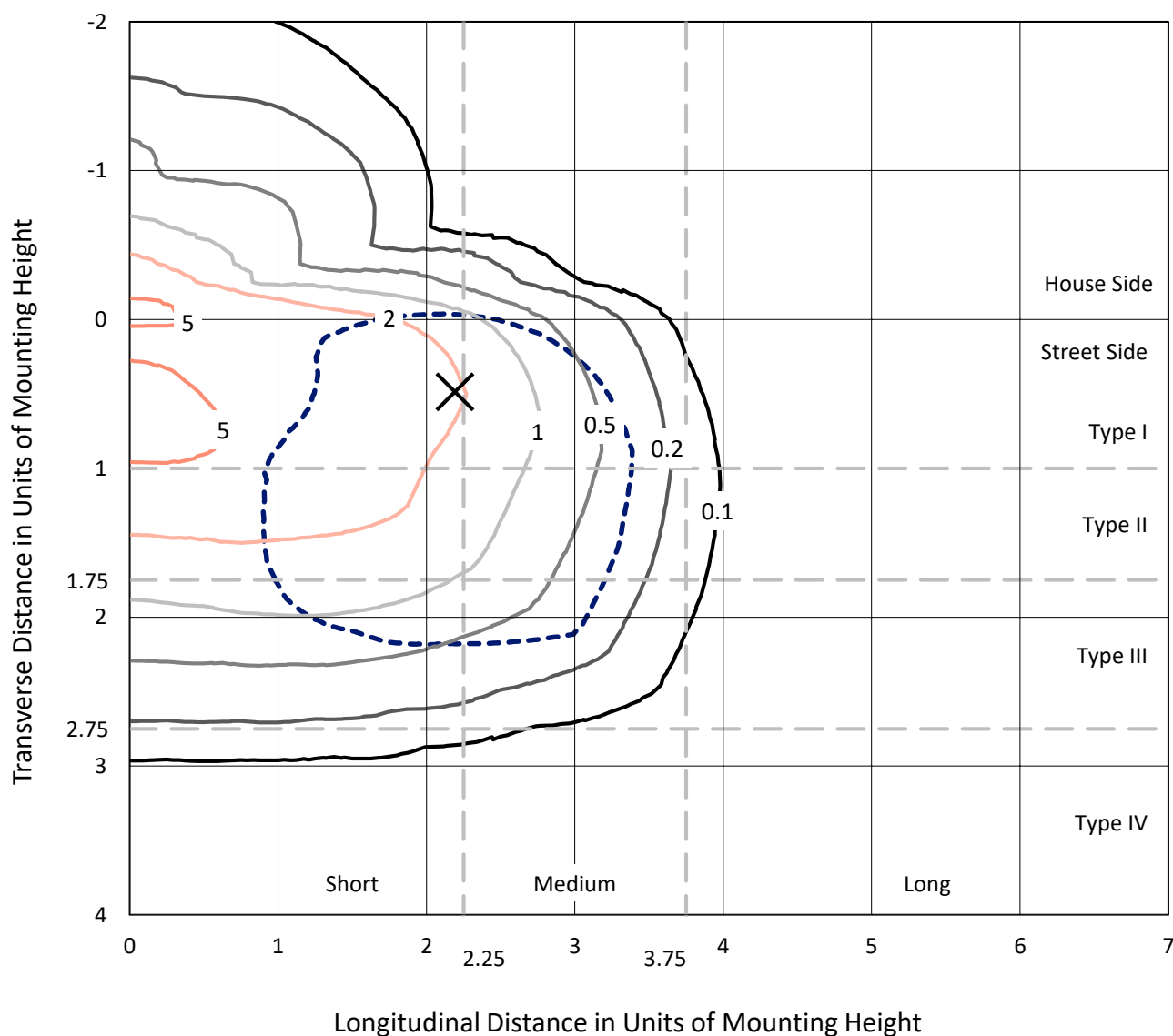
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

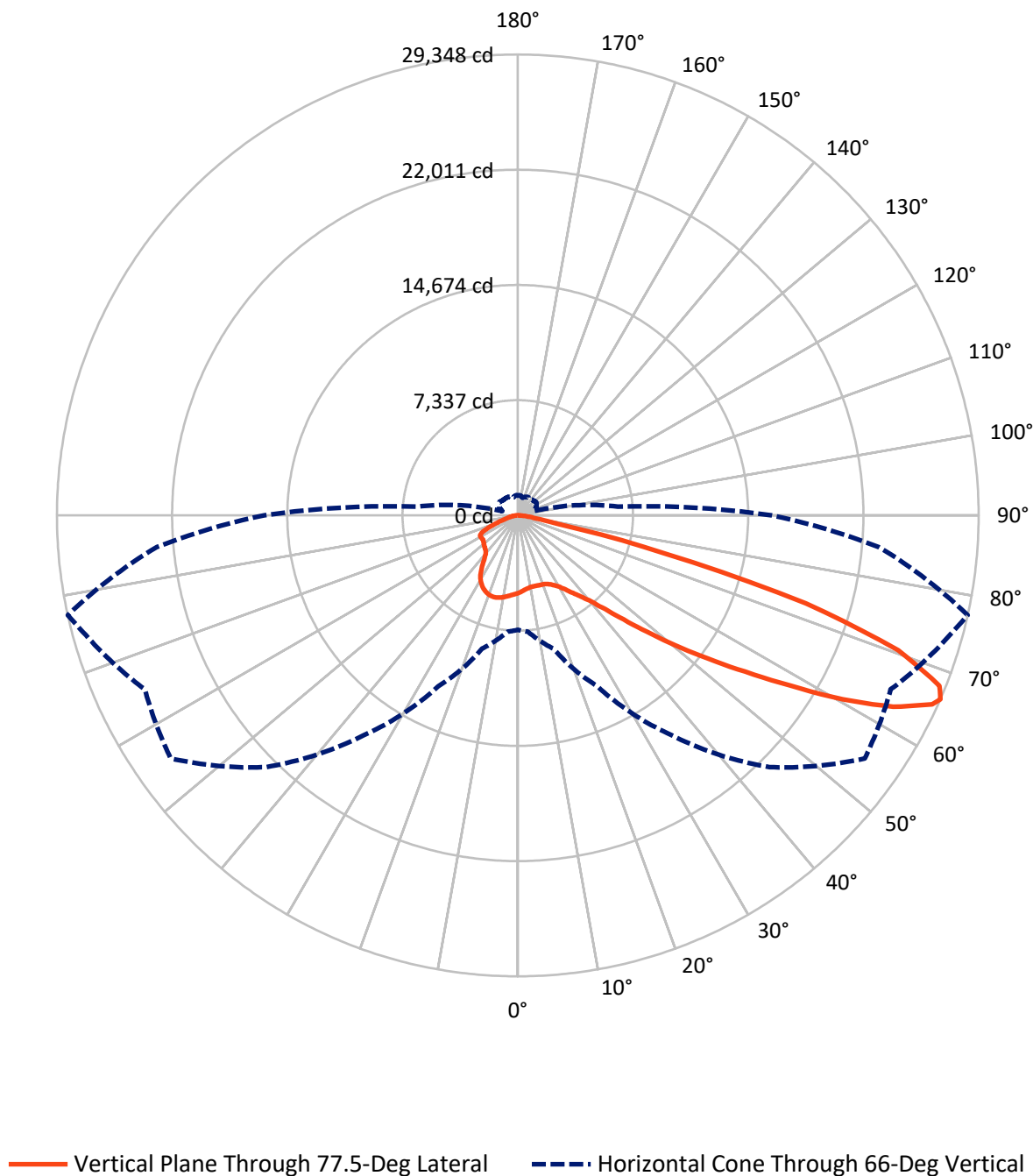


Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5923.4	0.0	5923.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	28747.9	0.0	28747.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	34671.2	0.0	34671.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.4	1.3
10°-20°	1245.3	3.6
20°-30°	2125.3	6.1
30°-40°	3402.3	9.8
40°-50°	5256.2	15.2
50°-60°	7455.1	21.5
60°-70°	9972.9	28.8
70°-80°	4331.0	12.5
80°-90°	441.6	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°	34671.2	100.0
0°-180°	34671.2	100.0

Coefficient of Utilization



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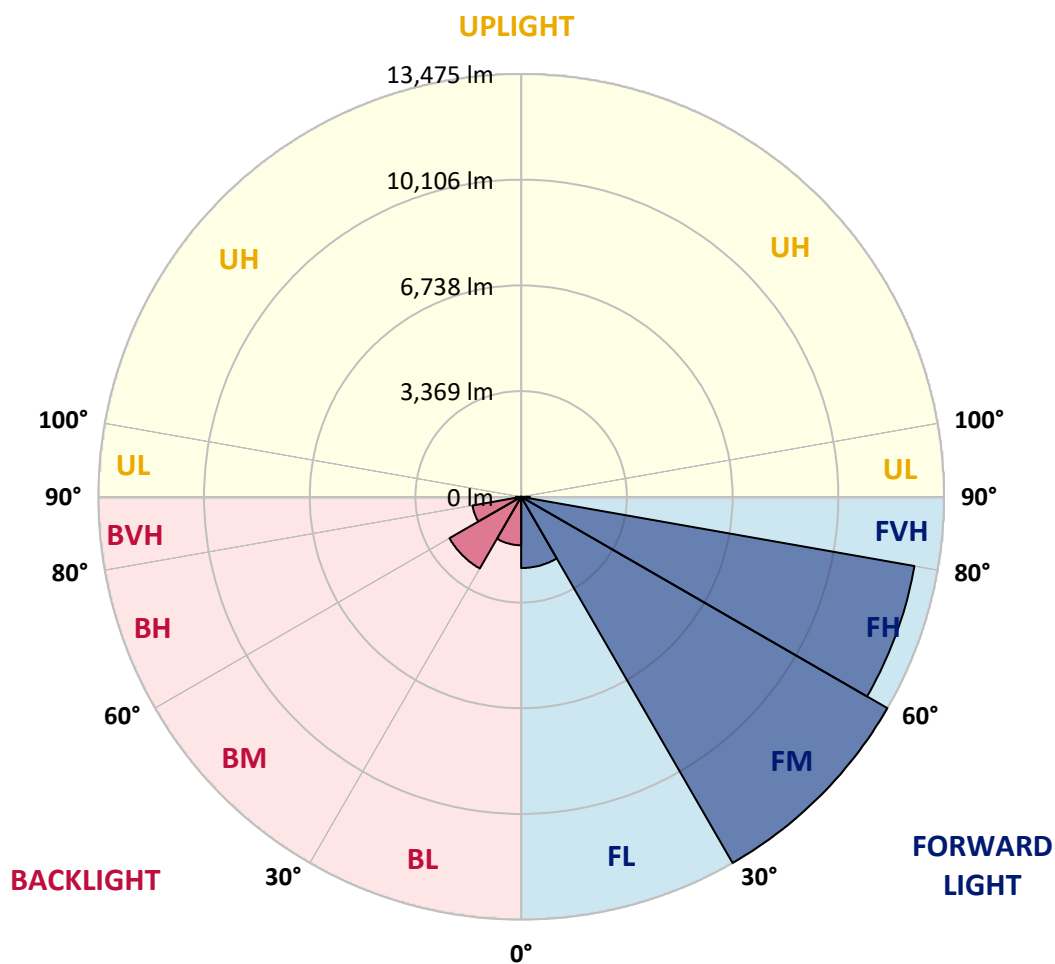
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2269.4	6.5			
FM	(30°-60°)	13475.1	38.9			
FH	(60°-80°)	12726.5	36.7			G5
FVH	(80°-90°)	277.0	0.8			G3/500
BL	(0°-30°)	1542.7	4.4	B3/2500		
BM	(30°-60°)	2638.5	7.6	B3/5000		
BH	(60°-80°)	1577.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	164.7	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°	4940.8	4940.8	4940.8	4940.8	4940.8	4940.8	4940.8	4940.8	4940.8	4940.8	4940.8
2.5°	4370.7	4400.2	4424.8	4447.7	4493.7	4568.9	4655.7	4726.2	4827.7	4847.4	4901.5
5°	3969.4	3969.4	3989.0	4023.5	4085.6	4198.8	4316.7	4473.9	4695.1	4747.6	4891.6
7.5°	3774.5	3776.1	3787.5	3817.0	3871.0	3974.3	4103.7	4288.9	4588.6	4675.4	4921.1
10°	3846.5	3830.1	3805.5	3790.7	3799.0	3859.6	3982.5	4188.9	4523.2	4634.4	4986.7
12.5°	4249.5	4218.4	4133.2	4020.2	3912.0	3867.8	3939.9	4141.4	4495.3	4624.6	5073.6
15°	4908.0	4895.0	4736.1	4501.8	4239.7	4020.2	3971.0	4123.3	4498.5	4636.1	5176.7
17.5°	5733.7	5715.7	5506.0	5165.2	4737.7	4310.1	4080.8	4138.0	4510.0	4655.7	5276.6
20°	6567.6	6511.9	6285.8	5879.5	5330.8	4704.9	4262.6	4175.8	4524.8	4677.1	5381.4
22.5°	7190.1	7144.3	6941.0	6546.3	5913.8	5162.0	4506.7	4241.3	4572.2	4739.3	5510.9
25°	7737.2	7740.5	7539.0	7157.3	6503.6	5646.8	4821.2	4416.6	4693.4	4867.1	5687.8
27.5°	8413.8	8374.5	8186.1	7807.6	7086.9	6136.6	5201.3	4657.4	4873.6	5049.0	5920.4
30°	9223.1	9195.3	8977.4	8548.1	7733.9	6662.5	5635.4	4937.5	5106.2	5288.1	6225.1
32.5°	10174.9	10161.7	9935.7	9383.6	8480.9	7281.8	6144.8	5307.9	5453.5	5641.9	6662.5
35°	11292.2	11293.8	11026.8	10363.2	9298.4	8002.5	6723.2	5784.5	5876.2	6072.8	7183.5
37.5°	11980.2	12063.8	11963.8	11287.2	10224.1	8808.6	7473.5	6416.8	6357.9	6556.1	7742.1
40°	12127.6	12229.2	12545.3	12201.3	11259.3	9696.5	8138.6	7024.6	6950.8	7193.3	8461.4
42.5°	11921.2	12062.1	12730.5	12972.9	12358.7	10790.9	9033.0	7927.3	7833.9	8159.9	9355.8
45°	11798.4	11903.1	12676.4	13374.3	13312.0	12027.7	10171.6	9060.9	9026.5	9454.1	10387.9
47.5°	11585.5	11680.4	12424.1	13467.7	13872.3	13161.3	11539.5	10446.9	10514.0	11074.2	11552.6
50°	11700.0	11739.4	12142.3	13230.1	14034.5	13991.8	13068.0	12052.3	12281.7	12981.1	12871.4
52.5°	11683.6	11785.2	12109.6	12840.2	14055.7	14504.6	14573.4	13842.8	14326.1	15128.8	14334.3
55°	9445.9	9632.7	11724.6	12742.0	14131.1	15007.6	15913.5	15730.0	16631.0	17566.4	15985.6
57.5°	9019.9	9137.9	10297.6	12948.4	14530.8	15967.5	17404.2	17807.3	19314.5	20400.6	17997.3
60°	8936.5	9082.1	10283.1	13200.6	15341.7	17532.1	19614.2	20321.9	22579.3	23768.7	20330.1
62.5°	8675.9	8833.2	10186.4	13167.8	16493.4	19696.0	22443.4	22995.5	25675.5	26832.1	22281.1
65°	7850.3	7997.7	9398.4	12638.7	17269.9	22006.0	25791.8	25446.2	28119.7	28989.6	23254.3
66°	7285.1	7429.2	8777.5	12016.3	17089.7	22661.3	26977.9	26204.6	28666.9	29348.3	23064.2
67.5°	6251.4	6364.5	7571.7	10622.0	16131.4	22844.7	27975.7	26774.7	28724.3	28965.0	21978.1
70°	3949.7	3982.5	4921.1	7332.6	12211.2	19812.4	26456.9	25359.4	26355.4	25703.4	18424.8
72.5°	1713.5	1702.0	2362.3	3730.2	6913.2	13294.0	21401.4	20924.8	20674.1	19186.6	12897.5
75°	953.4	966.5	1227.0	1731.5	2809.5	6529.9	14000.1	13397.3	11311.8	9652.3	5848.4
77.5°	765.1	783.1	1017.3	1228.6	1261.4	2277.1	6551.1	5330.8	3209.3	2575.2	1625.1
80°	604.5	637.3	888.0	956.7	850.2	938.6	2116.6	1692.3	1269.6	1164.8	842.1
82.5°	478.3	501.3	761.7	724.1	594.7	632.4	1014.0	987.8	825.7	751.9	486.5
85°	344.0	386.7	625.8	545.5	389.9	425.9	673.2	645.5	473.4	386.7	214.5
87.5°	140.8	183.4	442.3	362.0	217.9	198.2	335.9	316.2	224.4	163.8	106.5
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°	4940.8	4940.8	4940.8	4940.8	4940.8	4940.8	4940.8	4940.8	4940.8	4940.8	4940.8
2.5°	4935.9	4975.2	5026.0	5057.2	5073.6	5084.9	5103.0	5101.4	5106.2	5107.9	5114.4
5°	4968.7	5034.2	5107.9	5127.5	5127.5	5109.5	5091.5	5062.1	5050.6	5047.3	5050.6
7.5°	5053.9	5125.9	5189.9	5166.9	5117.7	5045.7	4952.2	4870.3	4826.1	4811.4	4808.2
10°	5162.0	5248.9	5275.0	5188.1	5044.1	4870.3	4685.2	4550.9	4473.9	4452.7	4446.1
12.5°	5293.1	5374.9	5339.0	5155.4	4888.4	4608.2	4352.7	4138.0	3977.6	3926.8	3923.5
15°	5437.2	5501.1	5374.9	5053.9	4655.7	4243.0	3787.5	3417.3	3217.4	3153.5	3148.7
17.5°	5571.5	5604.2	5353.6	4876.9	4313.3	3645.0	3040.4	2755.4	2686.6	2703.1	2706.4
20°	5686.2	5686.2	5281.6	4623.0	3774.5	2857.0	2475.3	2470.5	2519.5	2568.6	2578.5
22.5°	5812.4	5736.9	5155.4	4264.3	3010.9	2337.7	2282.0	2327.9	2383.6	2437.7	2445.9
25°	5968.0	5777.9	4980.1	3720.4	2367.2	2123.1	2144.4	2182.1	2210.0	2244.3	2249.2
27.5°	6141.6	5830.4	4749.2	2971.8	2054.3	1988.7	2005.1	2018.2	2015.0	2028.1	2031.3
30°	6349.7	5890.9	4432.9	2323.0	1924.9	1874.2	1844.7	1833.2	1833.2	1854.4	1862.7
32.5°	6628.2	5981.1	3979.2	1990.3	1862.7	1792.2	1697.2	1654.6	1671.0	1743.0	1759.4
35°	6934.4	6077.8	3364.8	1877.4	1849.5	1754.4	1607.1	1528.4	1530.0	1597.3	1618.5
37.5°	7268.7	6200.6	2691.6	1856.1	1879.0	1756.2	1559.5	1451.4	1407.3	1407.3	1415.5
40°	7696.2	6326.7	2178.8	1870.8	1941.3	1775.8	1535.0	1390.9	1266.4	1269.6	1276.1
42.5°	8253.2	6434.9	1903.7	1901.9	2016.6	1802.0	1533.4	1310.6	1202.4	1276.1	1343.4
45°	8872.5	6488.9	1782.3	1929.8	2077.2	1818.4	1507.1	1297.5	1210.6	1430.2	1557.9
47.5°	9585.1	6457.8	1715.2	1939.7	2092.0	1818.4	1477.6	1328.6	1268.0	1656.3	1805.3
50°	10366.5	6367.7	1649.7	1920.0	2087.1	1815.2	1505.5	1359.7	1289.3	1695.4	1798.7
52.5°	11285.6	6292.3	1580.9	1877.4	2052.7	1797.1	1538.3	1346.6	1222.1	1541.5	1613.6
55°	12334.1	6313.6	1503.9	1816.8	1998.6	1762.7	1526.8	1294.1	1151.7	1358.1	1402.4
57.5°	13674.2	6567.6	1412.1	1739.7	1924.9	1705.3	1485.8	1269.6	1130.4	1231.9	1258.1
60°	15169.8	7009.8	1297.5	1662.8	1833.2	1613.6	1454.7	1281.1	1140.2	1222.1	1235.1
62.5°	16267.4	7267.1	1199.1	1549.8	1708.6	1512.0	1415.5	1295.9	1166.5	1256.5	1253.2
65°	16565.5	6844.4	1076.3	1384.4	1539.9	1405.6	1366.3	1312.2	1177.9	1284.4	1269.6
66°	16147.8	6388.9	1022.2	1307.3	1454.7	1353.1	1341.7	1310.6	1172.9	1287.6	1263.0
67.5°	15133.7	5455.2	928.8	1194.2	1318.8	1274.5	1302.4	1295.9	1159.9	1284.4	1249.9
70°	12342.3	3722.0	794.6	994.4	1097.6	1122.2	1227.0	1243.4	1117.2	1227.0	1151.7
72.5°	8623.5	2267.2	702.7	771.6	888.0	956.7	1123.8	1171.4	1060.0	1071.4	999.2
75°	4167.5	1204.0	637.3	597.9	689.7	799.4	999.2	1073.0	969.7	896.2	869.9
77.5°	1299.1	735.6	540.7	481.7	540.7	645.5	835.5	940.2	863.3	750.3	740.4
80°	697.8	540.7	416.1	386.7	427.5	506.2	656.8	784.7	742.1	673.2	601.3
82.5°	460.3	350.6	308.0	299.8	326.0	386.7	488.2	650.4	650.4	576.7	419.3
85°	237.5	214.5	211.3	211.3	227.7	257.2	332.5	501.3	534.1	304.8	252.3
87.5°	118.0	122.9	114.7	119.6	127.9	126.2	158.9	252.3	301.4	185.0	153.9
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)