

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: P191765

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191765  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
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-AFL-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34898 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

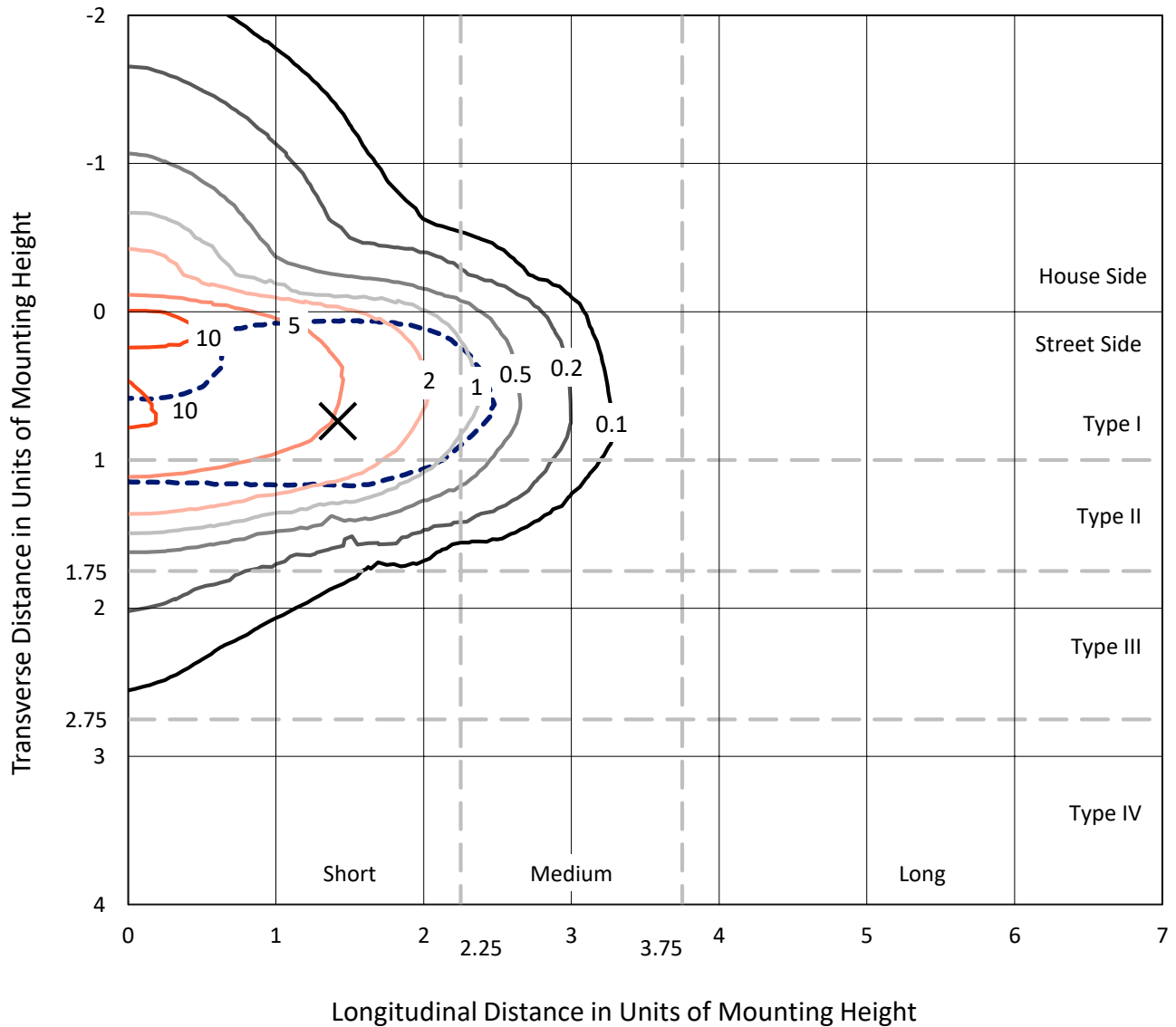


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### Iso-Footcandle Lines of Horizontal Illumination

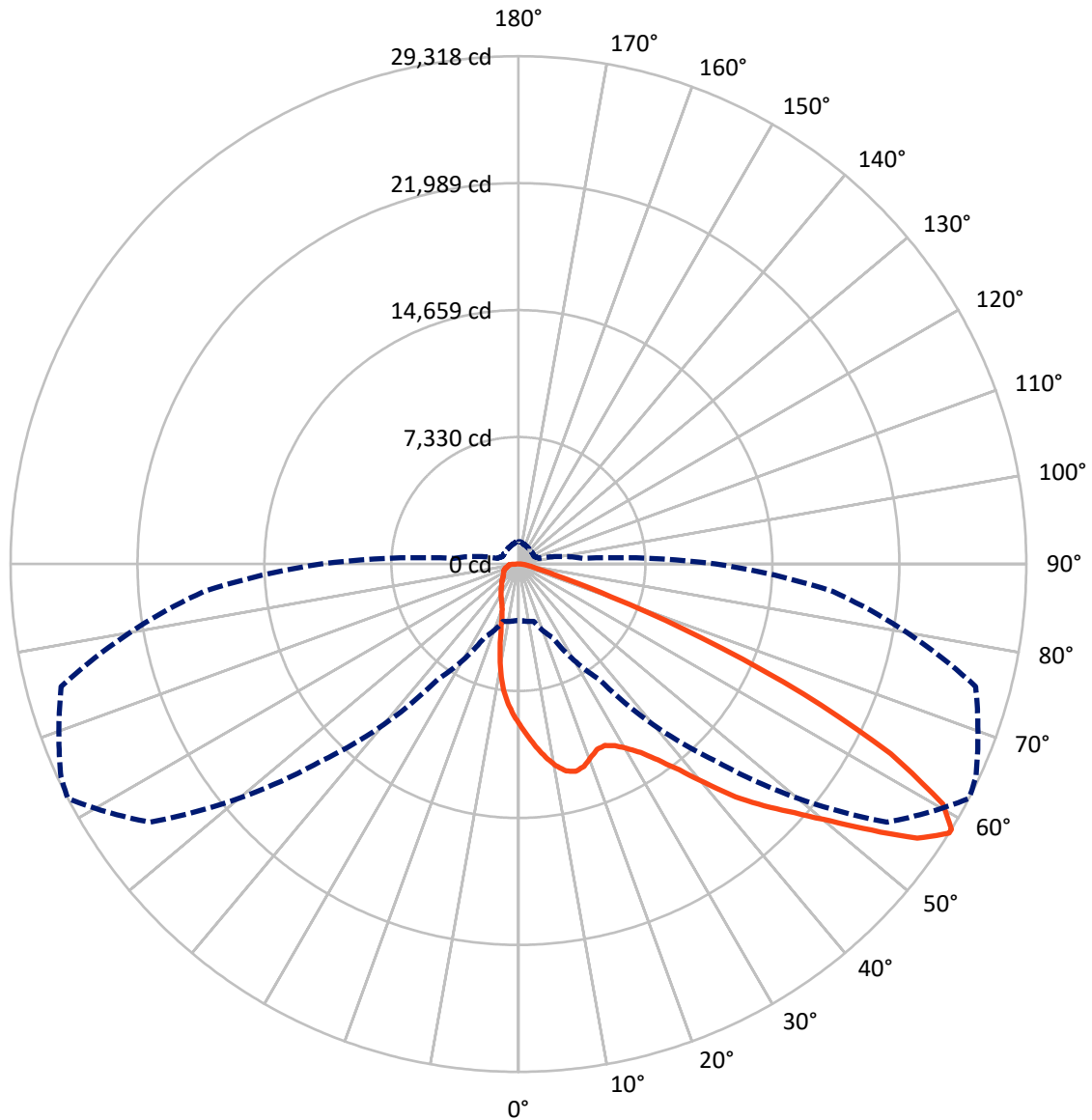
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.6 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral      - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5322.1	0.0	5322.1
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	29575.9	0.0	29575.9
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	34898.0	0.0	34898.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	829.1	2.4
10°-20°	2119.2	6.1
20°-30°	3425.8	9.8
30°-40°	5438.4	15.6
40°-50°	7957.5	22.8
50°-60°	8322.9	23.8
60°-70°	4917.2	14.1
70°-80°	1385.2	4.0
80°-90°	502.9	1.4
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°	34898.0	100.0
0°-180°	34898.0	100.0



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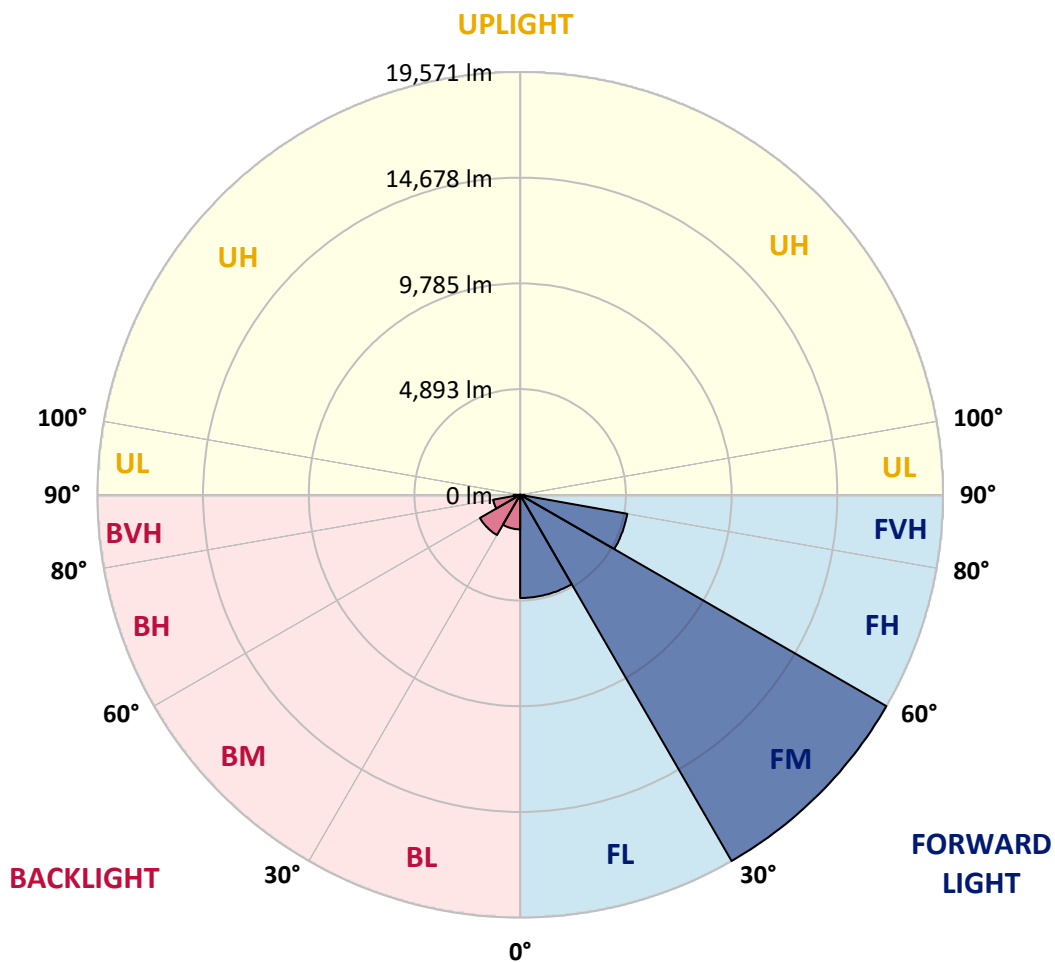
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4774.5	13.7			
FM	(30°-60°)	19570.6	56.1			
FH	(60°-80°)	5032.4	14.4			G3/7500
FVH	(80°-90°)	198.4	0.6			G2/225
BL	(0°-30°)	1599.6	4.6	B3/2500		
BM	(30°-60°)	2148.1	6.2	B2/2500		
BH	(60°-80°)	1269.9	3.6	B3/2500		G3/2500
BVH	(80°-90°)	304.5	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	9269.9	9269.9	9269.9	9269.9	9269.9	9269.9	9269.9	9269.9	9269.9	9269.9	9269.9
2.5°	10592.8	10507.4	10453.1	10405.5	10343.0	10209.9	10030.8	9917.4	9859.9	9664.3	9432.6
5°	11631.4	11555.8	11499.9	11435.8	11324.1	11115.4	10826.2	10596.1	10482.7	10091.6	9628.2
7.5°	11388.2	11419.4	11516.4	11685.6	11830.2	11802.3	11544.3	11251.8	11102.2	10558.3	9855.0
10°	9922.3	9976.6	10144.2	10540.2	11181.1	11838.4	12038.9	11836.8	11685.6	11020.1	10088.3
12.5°	9628.2	9626.5	9639.7	9744.9	10126.1	11051.3	12055.4	12259.1	12168.8	11460.5	10326.6
15°	9748.1	9751.4	9741.6	9785.9	9904.3	10270.7	11552.5	12421.8	12485.9	11904.2	10573.1
17.5°	10063.7	10055.4	10017.7	10017.7	10060.4	10203.3	10960.9	12270.6	12566.4	12296.9	10790.0
20°	10592.8	10555.0	10454.8	10362.7	10316.7	10394.0	10717.7	11922.3	12426.8	12640.4	10969.1
22.5°	11233.7	11204.1	11041.4	10844.2	10684.8	10683.2	10842.6	11618.2	12185.2	12964.1	11120.3
25°	12061.9	12014.3	11772.7	11457.2	11177.8	11071.0	11115.4	11603.5	12053.7	13315.8	11255.1
27.5°	13034.8	12947.7	12661.7	12206.5	11795.7	11580.4	11516.4	11871.3	12173.7	13751.3	11442.4
30°	14214.7	14114.4	13748.0	13154.7	12574.7	12221.3	12084.9	12346.2	12571.4	14282.1	11743.1
32.5°	15557.3	15412.7	14988.7	14334.6	13572.1	13033.1	12811.3	12974.0	13153.1	14921.3	12119.5
35°	17412.6	17240.0	16627.1	15724.9	14863.8	14122.7	13767.7	13886.0	14060.2	15874.4	12663.4
37.5°	18677.9	18600.7	18193.1	17345.2	16408.5	15555.6	15006.8	15075.8	15174.4	17065.8	13360.2
40°	18666.4	18697.6	18705.9	18714.1	18076.5	17259.7	16669.8	16597.5	16577.8	18373.9	14152.2
42.5°	17731.4	17859.6	18273.7	19113.4	19501.2	19126.5	18585.9	18377.2	18273.7	19915.3	14992.0
45°	16300.0	16369.1	17144.7	18784.7	20230.9	20975.3	20566.1	19908.8	19721.4	21331.9	15688.7
47.5°	15562.2	15637.8	16125.9	17913.8	20222.6	22469.1	22705.7	21453.5	21118.2	22564.4	16290.2
50°	13805.5	13963.3	14577.9	16398.6	19484.8	23156.0	24942.2	23294.0	22600.5	23764.0	16893.3
52.5°	10579.7	10822.9	11511.4	13907.4	17613.1	22815.8	26731.8	25525.6	24546.2	25006.3	17410.9
55°	6673.5	6854.3	7432.7	9822.1	14089.8	21045.9	27410.5	27939.7	27068.7	26182.9	17859.6
57.5°	3628.4	3709.0	3925.9	5422.9	9164.8	17133.2	26421.2	29313.5	28951.9	27182.1	18198.1
58°	3247.2	3301.4	3436.2	4699.9	8127.8	16063.4	25982.5	29318.4	29137.6	27328.3	18224.4
60°	2409.1	2381.2	2261.2	2681.9	4524.0	11097.3	23330.2	28145.1	28675.9	27507.5	18096.2
62.5°	2116.6	2049.2	1804.4	1776.4	2200.4	5112.4	17851.3	24109.1	25362.9	26485.3	17317.3
65°	1988.4	1916.1	1600.6	1498.7	1587.4	2162.6	10515.6	18081.4	19654.1	23386.0	15325.6
67.5°	1893.1	1799.4	1470.8	1331.1	1337.7	1429.7	4215.1	11388.2	13158.0	17756.0	11920.6
70°	1801.1	1699.2	1360.7	1199.6	1161.8	1130.6	1676.2	5700.7	7306.2	11215.6	7600.3
72.5°	1702.5	1602.2	1263.7	1096.1	1022.1	918.6	1094.4	2331.9	3257.1	5306.3	3447.7
75°	1559.5	1469.1	1166.8	1004.1	898.9	760.9	826.6	1217.7	1460.9	2113.3	1661.4
77.5°	1383.7	1309.7	1058.3	928.5	797.0	617.9	636.0	844.7	936.7	1209.5	987.6
80°	994.2	1020.5	941.6	834.8	709.9	501.2	488.1	616.2	665.5	777.3	642.5
82.5°	698.4	713.2	778.9	682.0	586.7	394.4	359.9	433.8	463.4	511.1	346.7
85°	481.5	465.1	534.1	474.9	424.0	262.9	246.5	294.2	312.2	317.2	179.1
87.5°	289.2	289.2	308.9	254.7	228.4	136.4	133.1	167.6	179.1	170.9	98.6
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°	9269.9	9269.9	9269.9	9269.9	9269.9	9269.9	9269.9	9269.9	9269.9	9269.9	9269.9
2.5°	9294.6	9177.9	8929.8	8730.9	8479.5	8218.2	8072.0	7915.9	7809.0	7731.8	7855.0
5°	9365.3	9127.0	8614.3	8127.8	7590.5	7031.7	6607.8	6213.4	5938.9	5768.0	5929.1
7.5°	9477.0	9110.5	8293.8	7462.3	6497.7	5567.6	4736.0	4215.1	3911.1	3761.5	3855.2
10°	9605.2	9084.2	7917.5	6560.1	5179.7	4008.0	3386.9	3176.5	3107.5	3079.6	3092.7
12.5°	9712.0	9028.4	7455.7	5469.0	3889.7	3165.0	2985.9	2981.0	2995.8	2999.1	3004.0
15°	9787.6	8946.2	6770.5	4331.8	3110.8	2884.0	2874.2	2903.7	2931.7	2943.2	2949.8
17.5°	9838.5	8776.9	5996.5	3424.7	2787.1	2747.6	2770.6	2808.4	2838.0	2846.2	2852.8
20°	9833.6	8528.8	5074.6	2856.1	2611.2	2611.2	2650.7	2680.2	2681.9	2672.0	2677.0
22.5°	9782.7	8188.6	4180.6	2553.7	2455.1	2483.0	2522.5	2494.6	2379.5	2303.9	2308.9
25°	9697.2	7782.7	3414.8	2361.4	2310.5	2359.8	2348.3	2138.0	1973.6	1899.7	1899.7
27.5°	9621.6	7302.9	2826.5	2193.8	2165.9	2226.7	2022.9	1832.3	1763.3	1728.8	1717.3
30°	9567.4	6785.2	2433.8	2032.8	2029.5	1985.1	1755.1	1702.5	1691.0	1663.0	1653.2
32.5°	9580.5	6261.0	2182.3	1891.5	1903.0	1699.2	1626.9	1638.4	1628.5	1598.9	1585.8
35°	9689.0	5763.1	2018.0	1763.3	1728.8	1534.9	1551.3	1572.7	1569.4	1528.3	1515.1
37.5°	9882.9	5291.5	1909.5	1656.5	1508.6	1452.7	1479.0	1511.9	1503.6	1475.7	1465.8
40°	10086.7	4847.8	1820.8	1572.7	1378.7	1396.8	1419.8	1437.9	1446.1	1454.3	1447.8
42.5°	10285.5	4384.4	1712.3	1487.2	1324.5	1344.2	1354.1	1372.2	1416.5	1447.8	1446.1
45°	10403.8	3948.9	1600.6	1365.6	1281.8	1293.3	1286.7	1322.9	1377.1	1428.0	1429.7
47.5°	10535.3	3610.4	1511.9	1253.8	1240.7	1248.9	1229.2	1265.4	1314.7	1377.1	1383.7
50°	10694.7	3408.2	1441.2	1165.1	1184.8	1184.8	1179.9	1212.8	1281.8	1354.1	1367.2
52.5°	10875.5	3368.8	1382.0	1101.0	1129.0	1127.3	1132.2	1181.5	1257.1	1327.8	1339.3
55°	11095.7	3475.6	1317.9	1053.4	1074.7	1081.3	1097.7	1153.6	1217.7	1298.2	1303.1
57.5°	11352.0	3692.5	1267.0	1015.6	1025.4	1046.8	1073.1	1124.0	1193.0	1281.8	1286.7
58°	11394.8	3738.5	1258.8	1012.3	1015.6	1040.2	1069.8	1119.1	1188.1	1285.1	1290.0
60°	11396.4	3891.4	1240.7	997.5	977.8	1018.9	1051.7	1101.0	1179.9	1296.6	1308.1
62.5°	10992.1	3889.7	1227.6	976.1	938.3	989.3	1027.1	1084.6	1171.7	1324.5	1347.5
65°	9679.1	3534.8	1165.1	943.3	907.1	963.0	1005.7	1073.1	1194.7	1446.1	1460.9
67.5°	7570.8	2897.2	1048.4	897.3	866.0	936.7	992.6	1071.4	1219.3	1474.1	1483.9
70°	5005.5	2167.5	920.3	844.7	823.3	905.5	999.1	1127.3	1191.4	1414.9	1388.6
72.5°	2598.1	1521.7	816.7	778.9	774.0	877.5	1094.4	1120.7	1163.5	1331.1	1298.2
75°	1364.0	1056.7	726.3	706.6	714.8	871.0	1291.6	1091.2	1127.3	1273.6	1336.0
77.5°	834.8	852.9	649.1	640.9	657.3	851.2	1290.0	1053.4	1074.7	1171.7	1240.7
80°	558.7	691.8	590.0	591.6	603.1	778.9	1158.5	994.2	1010.6	1107.6	1178.3
82.5°	353.3	409.2	535.7	563.7	548.9	642.5	984.3	905.5	928.5	1267.0	1339.3
85°	179.1	256.4	465.1	542.3	494.6	450.3	798.7	793.7	805.2	913.7	954.8
87.5°	82.2	141.3	363.2	473.3	373.0	281.0	580.1	588.3	634.3	649.1	649.1
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)