

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: P192698

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192698
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-10-LED-E1-AFL-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38516.1 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

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



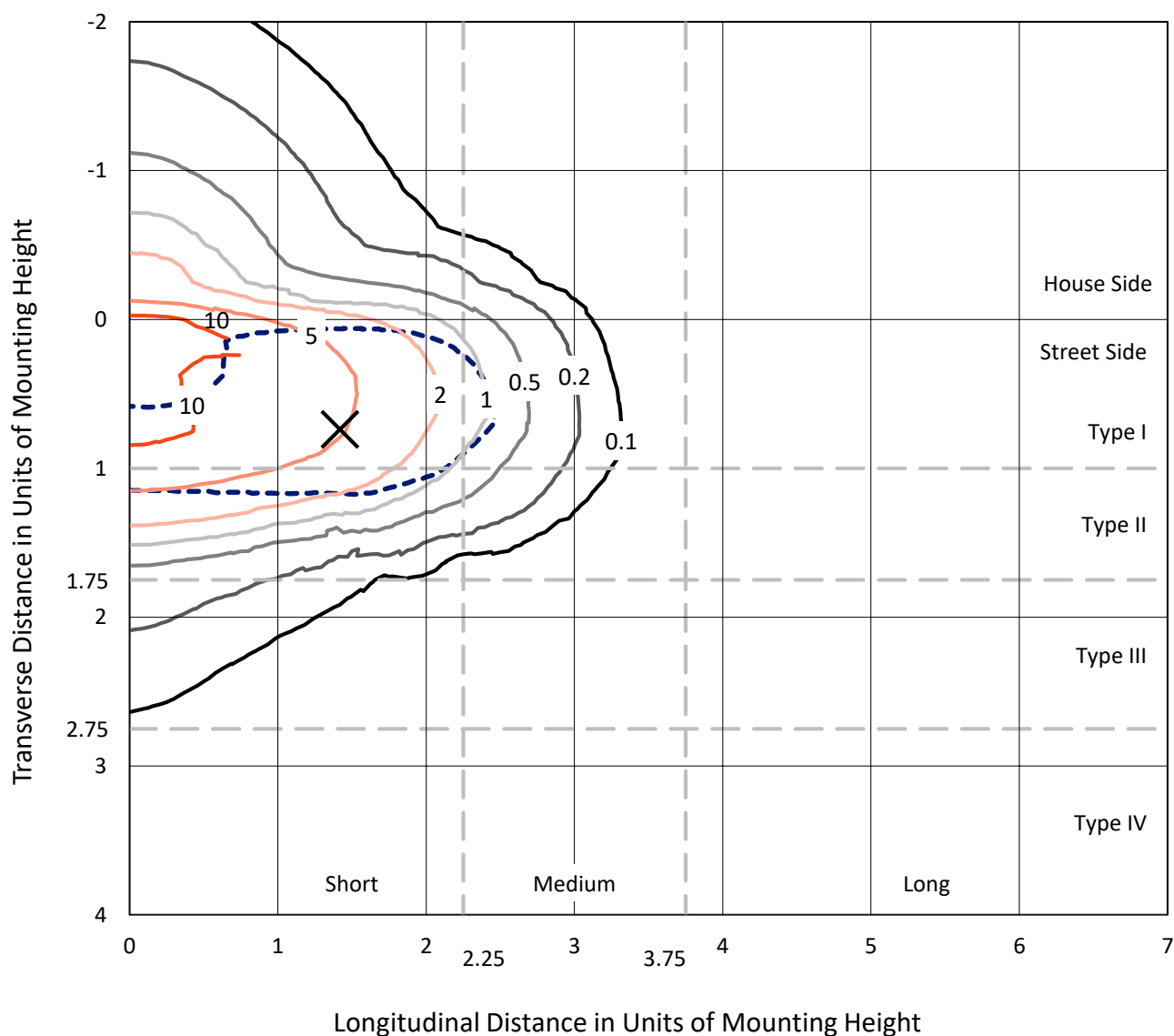
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

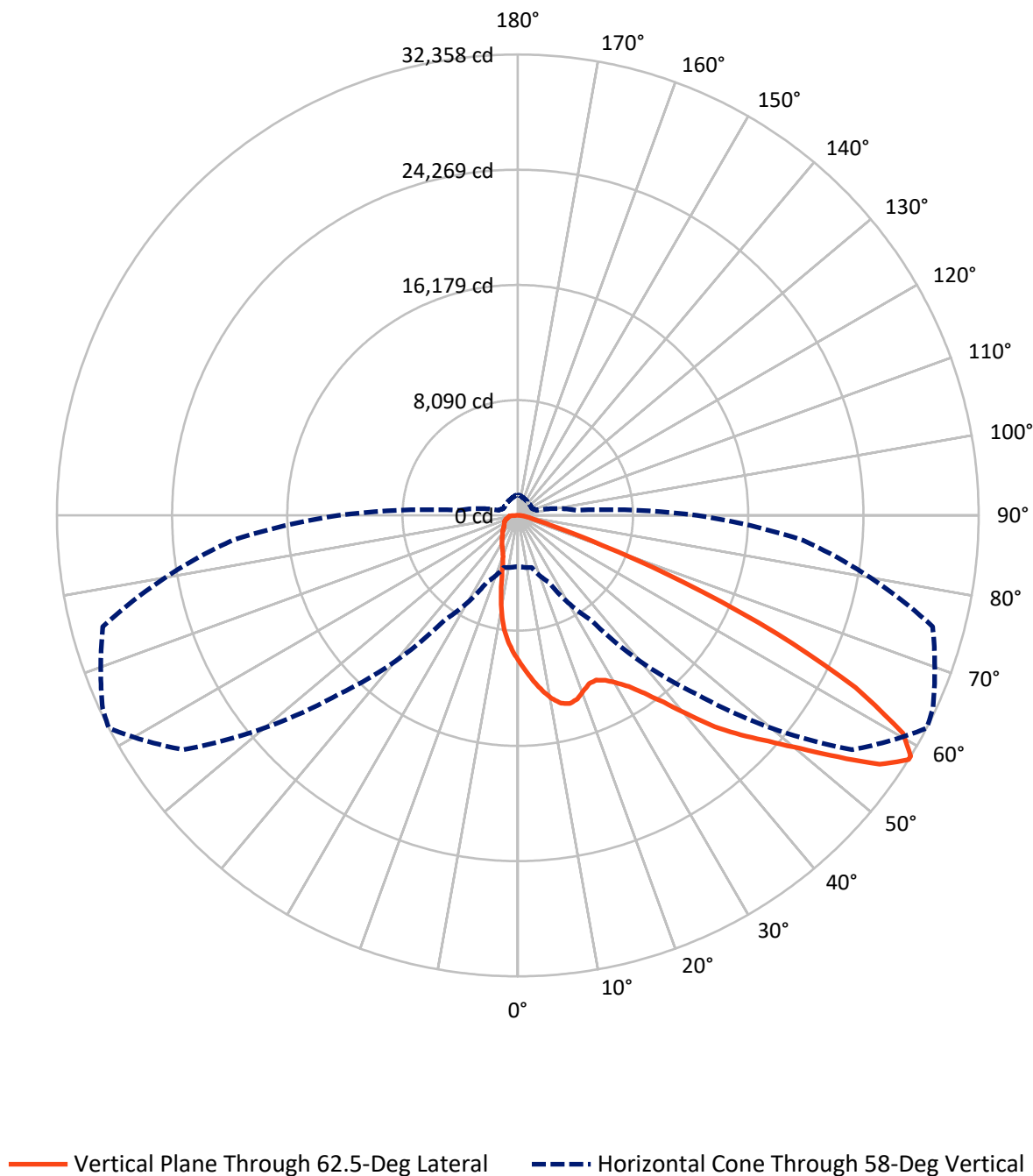


Based on 30 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5873.9	0.0	5873.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	32642.2	0.0	32642.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	38516.1	0.0	38516.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	915.0	2.4
10°-20°	2338.9	6.1
20°-30°	3780.9	9.8
30°-40°	6002.2	15.6
40°-50°	8782.5	22.8
50°-60°	9185.7	23.8
60°-70°	5426.9	14.1
70°-80°	1528.8	4.0
80°-90°	555.0	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°	38516.1	100.0
0°-180°	38516.1	100.0

Coefficient of Utilization



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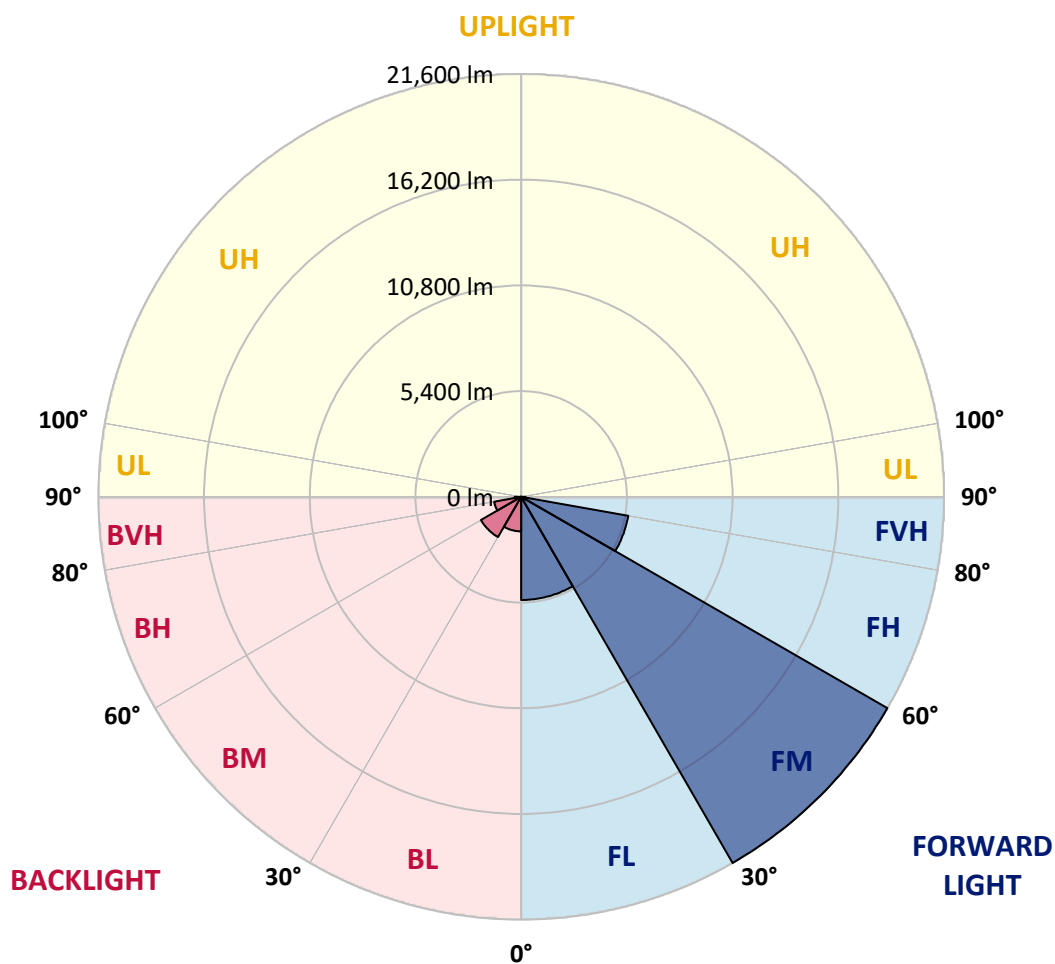
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5269.5	13.7			
FM	(30°-60°)	21599.6	56.1			
FH	(60°-80°)	5554.2	14.4			G3/7500
FVH	(80°-90°)	219.0	0.6			G2/225
BL	(0°-30°)	1765.4	4.6	B3/2500		
BM	(30°-60°)	2370.8	6.2	B2/2500		
BH	(60°-80°)	1401.6	3.6	B3/2500		G3/2500
BVH	(80°-90°)	336.1	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°	10231.0	10231.0	10231.0	10231.0	10231.0	10231.0	10231.0	10231.0	10231.0	10231.0	10231.0
2.5°	11691.1	11596.7	11536.9	11484.2	11415.3	11268.5	11070.7	10945.6	10882.1	10666.3	10410.6
5°	12837.3	12753.9	12692.2	12621.4	12498.1	12267.7	11948.6	11694.7	11569.5	11137.9	10626.4
7.5°	12568.8	12603.3	12710.3	12897.2	13056.7	13025.9	12741.2	12418.3	12253.3	11652.9	10876.6
10°	10951.0	11010.9	11195.9	11633.0	12340.3	13065.8	13287.1	13064.0	12897.2	12162.6	11134.2
12.5°	10626.4	10624.6	10639.1	10755.2	11175.9	12197.0	13305.3	13530.1	13430.3	12648.6	11397.2
15°	10758.8	10762.5	10751.5	10800.5	10931.1	11335.5	12750.2	13709.7	13780.5	13138.3	11669.2
17.5°	11107.0	11097.9	11056.3	11056.3	11103.4	11261.2	12097.3	13542.8	13869.3	13571.8	11908.7
20°	11691.1	11649.3	11538.7	11437.1	11386.4	11471.5	11828.9	13158.3	13715.1	13950.9	12106.4
22.5°	12398.4	12365.8	12186.1	11968.5	11792.6	11790.8	11966.7	12822.7	13448.5	14308.1	12273.2
25°	13312.4	13259.9	12993.2	12645.0	12336.7	12218.8	12267.7	12806.5	13303.4	14696.4	12421.9
27.5°	14386.1	14290.0	13974.5	13472.1	13018.7	12781.0	12710.3	13102.1	13435.8	15176.9	12628.7
30°	15688.4	15577.7	15173.3	14518.6	13878.3	13488.4	13337.9	13626.3	13874.8	15762.8	12960.7
32.5°	17170.2	17010.6	16542.6	15820.7	14979.2	14384.3	14139.5	14319.1	14516.7	16468.3	13375.9
35°	19217.8	19027.4	18350.8	17355.2	16404.8	15586.8	15195.1	15325.7	15517.9	17520.3	13976.2
37.5°	20614.4	20529.2	20079.3	19143.5	18109.7	17168.4	16562.6	16638.8	16747.6	18835.1	14745.3
40°	20601.7	20636.2	20645.2	20654.3	19950.5	19049.2	18398.0	18318.2	18296.4	20278.8	15619.4
42.5°	19569.7	19711.1	20168.1	21095.0	21523.0	21109.6	20512.8	20282.5	20168.1	21980.1	16546.2
45°	17990.0	18066.1	18922.2	20732.3	22328.3	23149.9	22698.3	21972.8	21766.1	23543.5	17315.3
47.5°	17175.7	17259.0	17797.7	19771.0	22319.3	24798.6	25059.7	23677.7	23307.7	24903.8	17979.0
50°	15236.7	15410.9	16089.2	18098.8	21504.9	25556.7	27528.2	25709.0	24943.7	26227.6	18644.6
52.5°	11676.5	11945.0	12704.8	15349.3	19439.1	25181.2	29503.3	28172.0	27091.1	27598.9	19216.0
55°	7365.3	7564.9	8203.3	10840.3	15550.6	23227.9	30252.4	30836.4	29875.1	28897.4	19711.1
57.5°	4004.6	4093.5	4332.9	5985.2	10114.9	18909.5	29160.4	32352.5	31953.5	30000.2	20084.8
58°	3583.8	3643.7	3792.4	5187.2	8970.5	17728.9	28676.1	32358.0	32158.5	30161.7	20113.7
60°	2658.9	2628.0	2495.6	2960.0	4993.0	12247.9	25748.9	31063.1	31648.8	30359.4	19972.4
62.5°	2336.1	2261.6	1991.5	1960.5	2428.5	5642.3	19702.0	26608.6	27992.4	29231.2	19112.6
65°	2194.6	2114.7	1766.5	1654.0	1752.0	2386.8	11605.7	19955.9	21691.7	25810.6	16914.4
67.5°	2089.4	1986.0	1623.3	1469.1	1476.3	1577.9	4652.2	12568.8	14522.2	19596.8	13156.5
70°	1987.8	1875.3	1501.8	1324.0	1282.2	1247.8	1850.0	6291.7	8063.7	12378.4	8388.3
72.5°	1878.9	1768.4	1394.7	1209.7	1128.1	1013.8	1208.0	2573.6	3594.7	5856.4	3805.1
75°	1721.2	1621.4	1287.7	1108.2	992.1	839.7	912.4	1343.9	1612.3	2332.3	1833.6
77.5°	1527.1	1445.5	1168.0	1024.8	879.6	682.0	701.9	932.2	1033.8	1334.8	1090.1
80°	1097.3	1126.4	1039.3	921.4	783.5	553.2	538.6	680.1	734.6	857.9	709.2
82.5°	770.9	787.1	859.7	752.7	647.5	435.3	397.1	478.8	511.5	564.1	382.7
85°	531.4	513.3	589.5	524.1	467.9	290.2	272.0	324.6	344.6	350.0	197.6
87.5°	319.2	319.2	341.0	281.2	252.1	150.6	147.0	184.9	197.6	188.6	108.8
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°	10231.0	10231.0	10231.0	10231.0	10231.0	10231.0	10231.0	10231.0	10231.0	10231.0	10231.0
2.5°	10258.3	10129.4	9855.6	9636.1	9358.6	9070.2	8908.8	8736.5	8618.6	8533.3	8669.4
5°	10336.3	10073.2	9507.3	8970.5	8377.5	7760.8	7292.8	6857.5	6554.7	6366.0	6543.7
7.5°	10459.5	10055.1	9153.6	8236.0	7171.3	6144.7	5227.1	4652.2	4316.7	4151.6	4254.9
10°	10601.0	10026.0	8738.3	7240.3	5716.8	4423.6	3738.0	3505.9	3429.6	3398.8	3413.4
12.5°	10718.9	9964.5	8228.8	6035.9	4293.1	3493.1	3295.5	3290.1	3306.4	3310.0	3315.5
15°	10802.4	9873.8	7472.4	4780.8	3433.4	3183.0	3172.2	3204.8	3235.6	3248.3	3255.6
17.5°	10858.5	9686.9	6618.2	3779.8	3075.9	3032.5	3057.8	3099.5	3132.3	3141.3	3148.6
20°	10853.2	9413.0	5600.6	3152.2	2881.9	2881.9	2925.5	2958.0	2960.0	2949.0	2954.5
22.5°	10796.9	9037.6	4614.0	2818.5	2709.6	2740.4	2784.0	2753.3	2626.3	2542.8	2548.3
25°	10702.6	8589.6	3768.8	2606.3	2550.0	2604.4	2591.7	2359.6	2178.2	2096.5	2096.5
27.5°	10619.1	8060.0	3119.6	2421.3	2390.5	2457.6	2232.6	2022.3	1946.1	1908.0	1895.3
30°	10559.3	7488.7	2686.0	2243.5	2240.0	2190.9	1937.0	1878.9	1866.2	1835.4	1824.5
32.5°	10573.8	6910.1	2408.6	2087.5	2100.3	1875.3	1795.5	1808.2	1797.4	1764.7	1750.3
35°	10693.5	6360.6	2227.2	1946.1	1908.0	1693.9	1712.1	1735.7	1732.1	1686.8	1672.2
37.5°	10907.6	5840.1	2107.5	1828.2	1665.0	1603.3	1632.4	1668.6	1659.5	1628.7	1617.8
40°	11132.4	5350.4	2009.6	1735.7	1521.7	1541.6	1567.0	1587.0	1596.1	1605.1	1597.8
42.5°	11351.8	4838.9	1889.8	1641.4	1461.8	1483.6	1494.4	1514.5	1563.4	1597.8	1596.1
45°	11482.5	4358.3	1766.5	1507.1	1414.7	1427.4	1420.2	1460.0	1519.9	1576.1	1577.9
47.5°	11627.6	3984.6	1668.6	1383.9	1369.3	1378.5	1356.7	1396.6	1451.0	1519.9	1527.1
50°	11803.5	3761.6	1590.6	1285.9	1307.7	1307.7	1302.3	1338.5	1414.7	1494.4	1509.0
52.5°	12003.0	3718.1	1525.3	1215.2	1246.0	1244.1	1249.6	1304.0	1387.5	1465.5	1478.2
55°	12246.0	3836.0	1454.6	1162.6	1186.1	1193.4	1211.5	1273.2	1343.9	1432.8	1438.3
57.5°	12529.0	4075.4	1398.3	1120.9	1131.7	1155.3	1184.4	1240.5	1316.7	1414.7	1420.2
58°	12576.1	4126.1	1389.2	1117.2	1120.9	1148.1	1180.8	1235.0	1311.3	1418.3	1423.7
60°	12577.9	4294.8	1369.3	1100.9	1079.2	1124.5	1160.8	1215.2	1302.3	1431.0	1443.7
62.5°	12131.7	4293.1	1354.9	1077.3	1035.7	1091.8	1133.6	1197.1	1293.2	1461.8	1487.2
65°	10682.6	3901.2	1285.9	1041.0	1001.2	1062.9	1110.0	1184.4	1318.5	1596.1	1612.3
67.5°	8355.7	3197.6	1157.2	990.3	955.8	1033.8	1095.5	1182.5	1345.7	1626.9	1637.8
70°	5524.4	2392.2	1015.7	932.2	908.7	999.4	1102.8	1244.1	1314.9	1561.6	1532.6
72.5°	2867.4	1679.5	901.4	859.7	854.3	968.5	1208.0	1237.0	1284.2	1469.1	1432.8
75°	1505.4	1166.3	801.6	779.9	789.0	961.3	1425.5	1204.2	1244.1	1405.6	1474.6
77.5°	921.4	941.3	716.4	707.4	725.5	939.5	1423.7	1162.6	1186.1	1293.2	1369.3
80°	616.7	763.6	651.0	653.0	665.6	859.7	1278.7	1097.3	1115.4	1222.4	1300.4
82.5°	389.9	451.6	591.3	622.1	605.8	709.2	1086.4	999.4	1024.8	1398.3	1478.2
85°	197.6	283.0	513.3	598.5	546.0	496.9	881.5	876.0	888.8	1008.5	1053.8
87.5°	90.6	156.0	400.9	522.4	411.7	310.2	640.3	649.3	700.2	716.4	716.4
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)