

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: P190984

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190984  
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-06-LED-E1-AFL-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40985.5 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

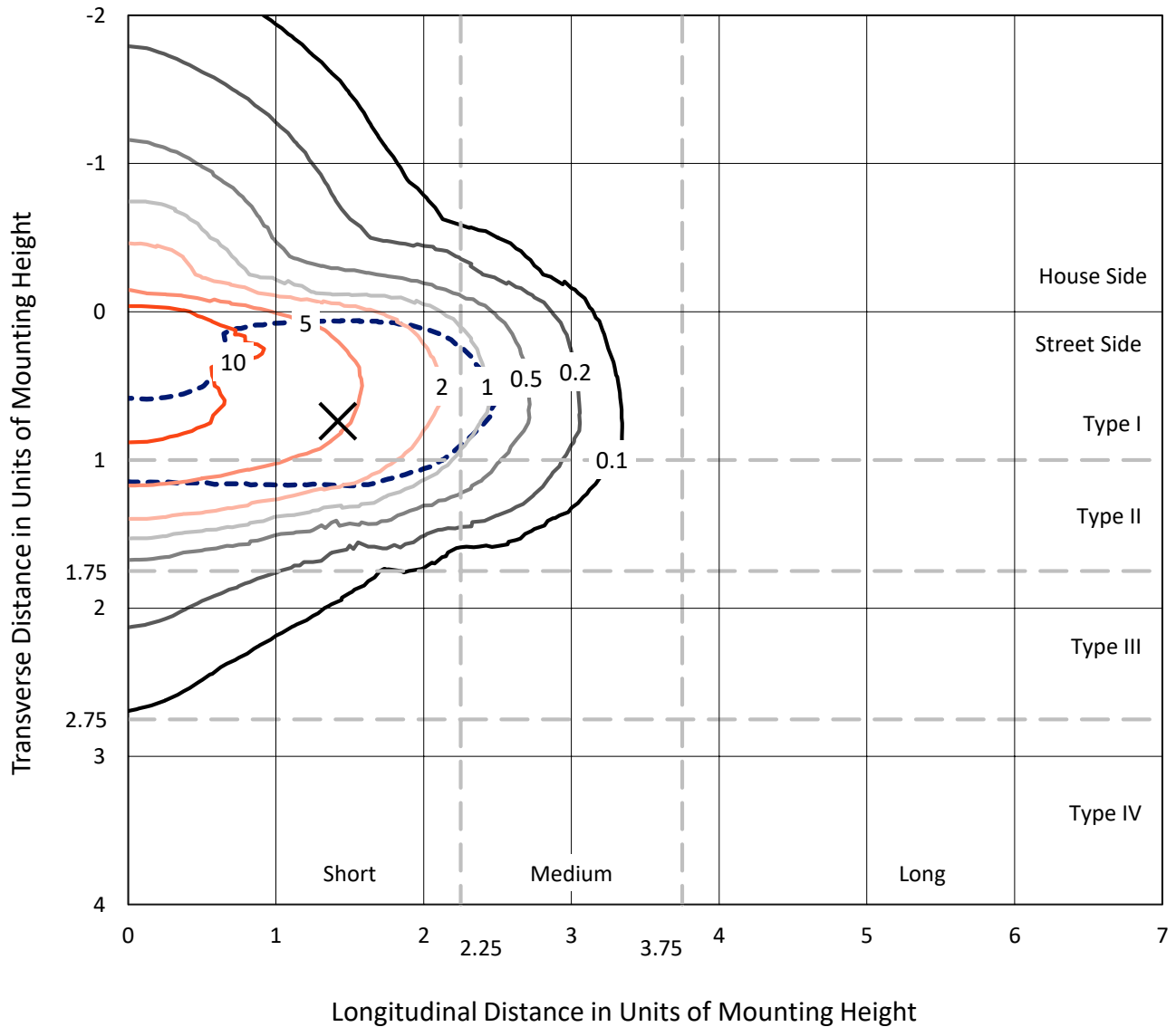
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

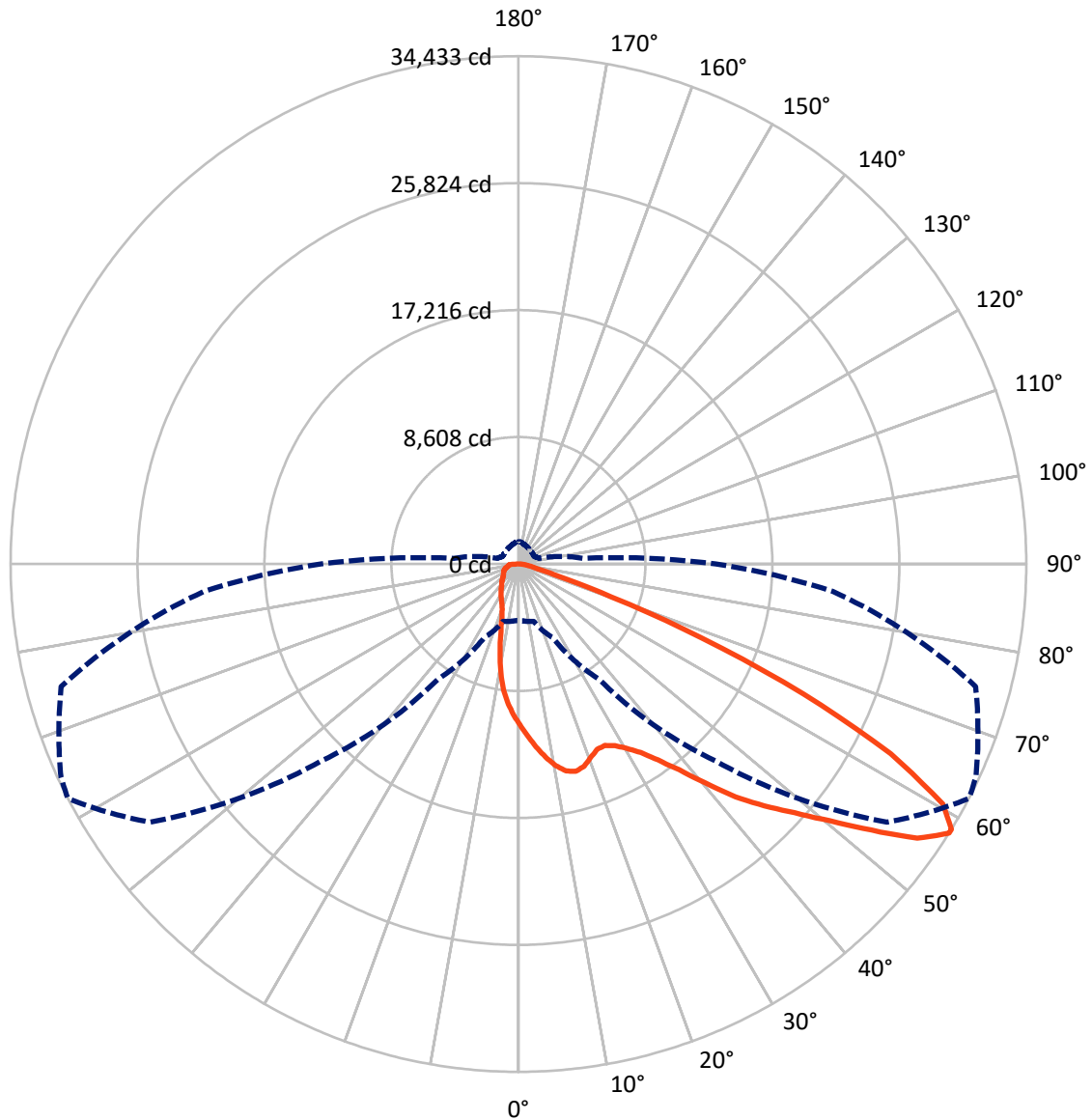
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.7 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	6250.5	0.0	6250.5
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	34735.1	0.0	34735.1
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	40985.5	0.0	40985.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	973.7	2.4
10°-20°	2488.9	6.1
20°-30°	4023.4	9.8
30°-40°	6387.0	15.6
40°-50°	9345.6	22.8
50°-60°	9774.7	23.8
60°-70°	5774.9	14.1
70°-80°	1626.8	4.0
80°-90°	590.6	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°	40985.5	100.0
0°-180°	40985.5	100.0



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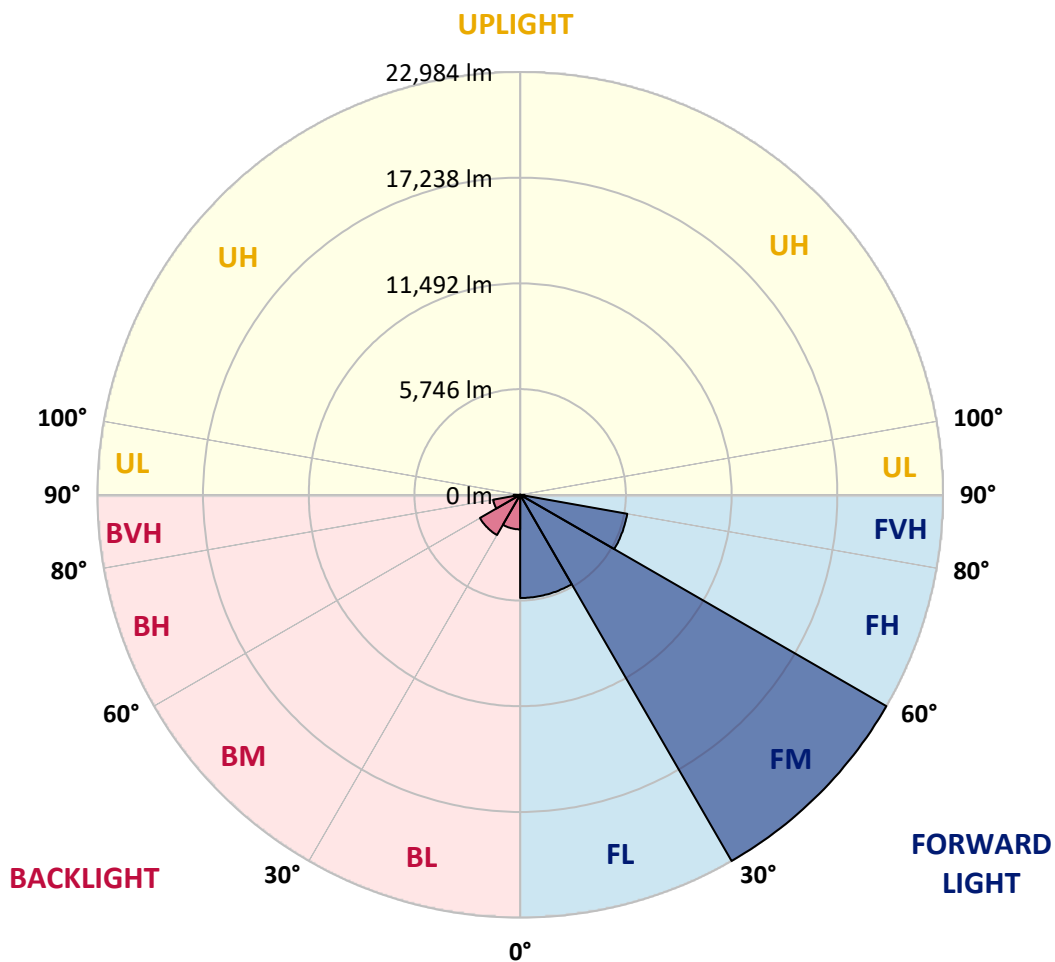
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5607.3	13.7			
FM	(30°-60°)	22984.5	56.1			
FH	(60°-80°)	5910.3	14.4			G3/7500
FVH	(80°-90°)	233.0	0.6			G3/500
BL	(0°-30°)	1878.6	4.6	B3/2500		
BM	(30°-60°)	2522.8	6.2	B3/5000		
BH	(60°-80°)	1491.4	3.6	B3/2500		G3/2500
BVH	(80°-90°)	357.6	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°	10887.0	10887.0	10887.0	10887.0	10887.0	10887.0	10887.0	10887.0	10887.0	10887.0	10887.0
2.5°	12440.6	12340.3	12276.5	12220.6	12147.2	11990.9	11780.5	11647.4	11579.8	11350.2	11078.0
5°	13660.4	13571.6	13505.9	13430.7	13299.5	13054.3	12714.7	12444.5	12311.3	11852.0	11307.7
7.5°	13374.7	13411.4	13525.3	13724.0	13893.9	13861.1	13558.1	13214.5	13038.9	12400.1	11574.1
10°	11653.1	11716.9	11913.7	12378.8	13131.5	13903.5	14139.0	13901.6	13724.0	12942.4	11848.1
12.5°	11307.7	11305.8	11321.2	11444.8	11892.5	12979.1	14158.3	14397.6	14291.4	13459.7	12127.9
15°	11448.6	11452.4	11440.9	11493.0	11632.0	12062.3	13567.7	14588.7	14663.9	13980.8	12417.4
17.5°	11819.2	11809.5	11765.2	11765.2	11815.3	11983.2	12872.9	14411.1	14758.5	14442.0	12672.2
20°	12440.6	12396.2	12278.5	12170.5	12116.3	12207.1	12587.3	14001.9	14594.4	14845.4	12882.5
22.5°	13193.3	13158.5	12967.4	12735.8	12548.6	12546.8	12734.0	13644.9	14310.8	15225.6	13060.1
25°	14166.0	14110.1	13826.3	13455.8	13127.6	13002.2	13054.3	13627.5	14156.3	15638.6	13218.4
27.5°	15308.6	15206.3	14870.4	14335.8	13853.3	13600.5	13525.3	13942.1	14297.3	16150.0	13438.4
30°	16694.3	16576.5	16146.2	15449.4	14768.1	14353.2	14193.0	14499.9	14764.2	16773.4	13791.6
32.5°	18271.0	18101.2	17603.2	16835.1	15939.6	15306.6	15046.1	15237.2	15447.5	17524.2	14233.5
35°	20450.0	20247.4	19527.4	18467.9	17456.6	16586.2	16169.3	16308.3	16512.9	18643.6	14872.4
37.5°	21936.1	21845.3	21366.7	20370.8	19270.8	18269.1	17624.5	17705.5	17821.3	20042.8	15690.6
40°	21922.6	21959.3	21968.9	21978.5	21229.7	20270.5	19577.6	19492.7	19469.5	21579.0	16620.9
42.5°	20824.4	20975.0	21461.3	22447.5	22902.9	22463.0	21828.0	21582.9	21461.3	23389.4	17607.1
45°	19143.4	19224.4	20135.4	22061.5	23759.9	24634.2	24153.6	23381.6	23161.7	25053.0	18425.5
47.5°	18276.9	18365.6	18938.8	21038.6	23750.3	26388.6	26666.4	25195.8	24802.1	26500.5	19131.8
50°	16213.7	16399.0	17120.8	19259.2	22883.7	27195.2	29293.1	27357.4	26542.9	27909.4	19840.1
52.5°	12425.2	12710.8	13519.4	16333.4	20685.5	26795.8	31394.9	29978.3	28828.0	29368.4	20448.1
55°	7837.6	8049.9	8729.2	11535.4	16547.6	24717.2	32192.0	32813.4	31790.5	30750.2	20975.0
57.5°	4261.4	4355.9	4610.7	6368.9	10763.5	20121.9	31030.1	34426.9	34002.3	31923.6	21372.5
58°	3813.7	3877.3	4035.5	5519.7	9545.7	18865.5	30514.8	34432.6	34220.4	32095.5	21403.4
60°	2829.4	2796.5	2655.7	3149.7	5313.2	13033.1	27399.8	33054.6	33678.0	32305.8	21252.8
62.5°	2485.8	2406.7	2119.1	2086.3	2584.3	6004.1	20965.3	28314.7	29787.2	31105.4	20338.0
65°	2335.3	2250.4	1879.8	1760.1	1864.3	2539.9	12349.9	21235.5	23082.5	27465.4	17998.9
67.5°	2223.3	2113.3	1727.4	1563.3	1571.0	1679.1	4950.4	13374.7	15453.3	20853.4	14000.0
70°	2115.3	1995.6	1598.1	1408.9	1364.5	1327.8	1968.6	6695.1	8580.6	13172.0	8926.2
72.5°	1999.5	1881.7	1484.2	1287.3	1200.4	1078.8	1285.3	2738.6	3825.2	6231.9	4049.0
75°	1831.6	1725.4	1370.2	1179.3	1055.7	893.5	970.8	1430.1	1715.8	2482.0	1951.2
77.5°	1625.1	1538.2	1242.9	1090.5	936.0	725.7	746.9	992.0	1100.1	1420.5	1159.9
80°	1167.6	1198.5	1105.9	980.4	833.7	588.6	573.2	723.7	781.6	912.9	754.6
82.5°	820.2	837.6	914.8	801.0	689.0	463.2	422.7	509.5	544.2	600.3	407.2
85°	565.5	546.2	627.3	557.7	498.0	308.8	289.5	345.5	366.7	372.5	210.3
87.5°	339.7	339.7	362.8	299.1	268.2	160.2	156.3	196.8	210.3	200.7	115.8
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°	10887.0	10887.0	10887.0	10887.0	10887.0	10887.0	10887.0	10887.0	10887.0	10887.0	10887.0
2.5°	10915.9	10778.9	10487.5	10254.0	9958.6	9651.7	9480.0	9296.7	9171.3	9080.5	9225.3
5°	10998.9	10719.1	10116.9	9545.7	8914.5	8258.4	7760.4	7297.2	6974.9	6774.2	6963.3
7.5°	11130.1	10699.8	9740.5	8764.0	7631.1	6538.7	5562.2	4950.4	4593.4	4417.7	4527.7
10°	11280.7	10668.9	9298.6	7704.5	6083.3	4707.2	3977.6	3730.6	3649.6	3616.7	3632.2
12.5°	11406.1	10603.3	8756.3	6422.9	4568.3	3717.1	3506.8	3500.9	3518.3	3522.2	3528.0
15°	11494.9	10506.7	7951.5	5087.4	3653.5	3387.1	3375.5	3410.2	3443.0	3456.6	3464.3
17.5°	11554.7	10308.0	7042.5	4022.0	3273.2	3226.9	3253.9	3298.3	3333.1	3342.7	3350.5
20°	11548.9	10016.5	5959.7	3354.3	3066.7	3066.7	3113.0	3147.8	3149.7	3138.1	3143.9
22.5°	11489.2	9617.1	4909.9	2999.2	2883.4	2916.2	2962.5	2929.7	2794.6	2705.8	2711.6
25°	11388.8	9140.4	4010.5	2773.3	2713.6	2771.5	2758.0	2510.9	2317.9	2231.1	2231.1
27.5°	11300.0	8576.8	3319.6	2576.5	2543.7	2615.1	2375.8	2151.9	2070.9	2030.4	2016.8
30°	11236.3	7968.9	2858.3	2387.4	2383.5	2331.4	2061.2	1999.5	1986.0	1953.1	1941.6
32.5°	11251.7	7353.2	2563.0	2221.4	2234.9	1995.6	1910.7	1924.2	1912.6	1877.8	1862.4
35°	11379.1	6768.5	2370.0	2070.9	2030.4	1802.6	1821.9	1846.9	1843.2	1794.9	1779.4
37.5°	11606.8	6214.5	2242.6	1945.4	1771.8	1706.1	1737.0	1775.5	1765.9	1733.1	1721.5
40°	11846.2	5693.4	2138.4	1846.9	1619.2	1640.5	1667.5	1688.7	1698.4	1708.0	1700.3
42.5°	12079.7	5149.1	2011.0	1746.6	1555.6	1578.7	1590.3	1611.6	1663.6	1700.3	1698.4
45°	12218.6	4637.8	1879.8	1603.8	1505.4	1518.9	1511.2	1553.7	1617.3	1677.1	1679.1
47.5°	12373.1	4240.1	1775.5	1472.5	1457.1	1466.8	1443.6	1486.0	1543.9	1617.3	1625.1
50°	12560.3	4002.8	1692.6	1368.4	1391.5	1391.5	1385.7	1424.4	1505.4	1590.3	1605.7
52.5°	12772.6	3956.5	1623.1	1293.1	1325.8	1324.0	1329.7	1387.6	1476.4	1559.4	1572.9
55°	13031.2	4081.9	1547.8	1237.2	1262.2	1269.9	1289.2	1354.8	1430.1	1524.7	1530.4
57.5°	13332.2	4336.7	1488.0	1192.8	1204.3	1229.4	1260.3	1320.1	1401.1	1505.4	1511.2
58°	13382.4	4390.7	1478.4	1188.9	1192.8	1221.7	1256.4	1314.3	1395.4	1509.3	1515.0
60°	13384.4	4570.1	1457.1	1171.5	1148.4	1196.5	1235.2	1293.1	1385.7	1522.8	1536.3
62.5°	12909.5	4568.3	1441.6	1146.4	1102.0	1161.9	1206.3	1273.8	1376.1	1555.6	1582.6
65°	11367.5	4151.3	1368.4	1107.8	1065.3	1131.0	1181.1	1260.3	1403.1	1698.4	1715.8
67.5°	8891.4	3402.5	1231.3	1053.7	1017.1	1100.1	1165.7	1258.3	1432.0	1731.1	1742.8
70°	5878.7	2545.6	1080.7	992.0	966.9	1063.5	1173.4	1324.0	1399.2	1661.7	1630.8
72.5°	3051.3	1787.2	959.2	914.8	909.0	1030.6	1285.3	1316.2	1366.5	1563.3	1524.7
75°	1601.8	1240.9	853.0	829.9	839.5	1022.8	1516.9	1281.6	1324.0	1495.8	1569.1
77.5°	980.4	1001.7	762.3	752.7	772.0	999.7	1515.0	1237.2	1262.2	1376.1	1457.1
80°	656.2	812.5	692.8	694.8	708.3	914.8	1360.6	1167.6	1186.9	1300.8	1383.7
82.5°	414.9	480.6	629.2	662.0	644.6	754.6	1156.0	1063.5	1090.5	1488.0	1572.9
85°	210.3	301.1	546.2	636.9	580.9	528.8	937.9	932.2	945.7	1073.1	1121.4
87.5°	96.5	166.0	426.6	555.9	438.1	330.0	681.3	690.9	745.0	762.3	762.3
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)