

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: STREETWORKS

Report Number: P300351

Luminaire Tested: **GAA-AF-10-LED-U-AFL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300351
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: STREETWORKS
Catalog Number: GAA-AF-10-LED-U-AFL-8030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49158 lumens
Efficiency: N/A
Efficacy: 88.1 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

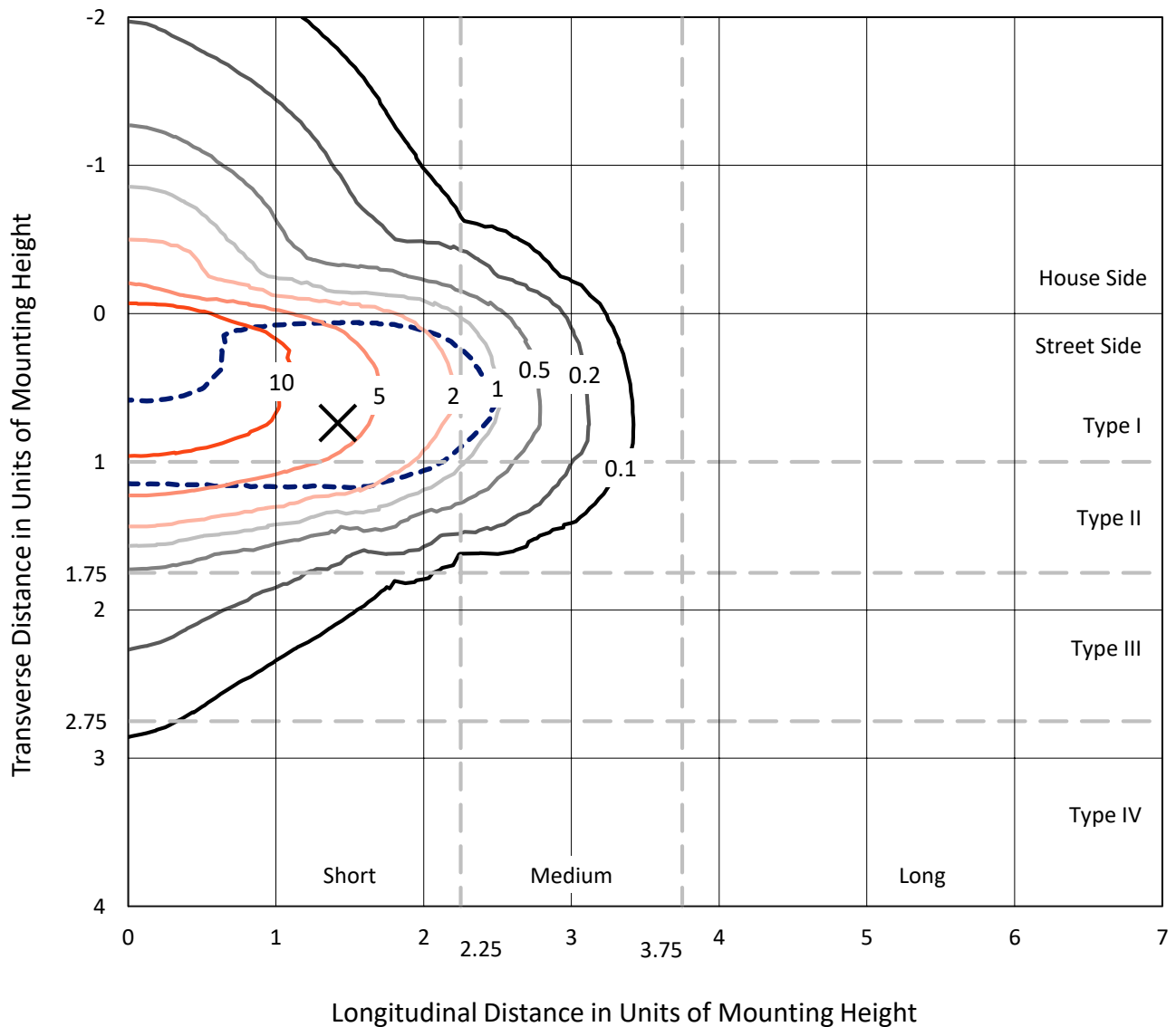
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

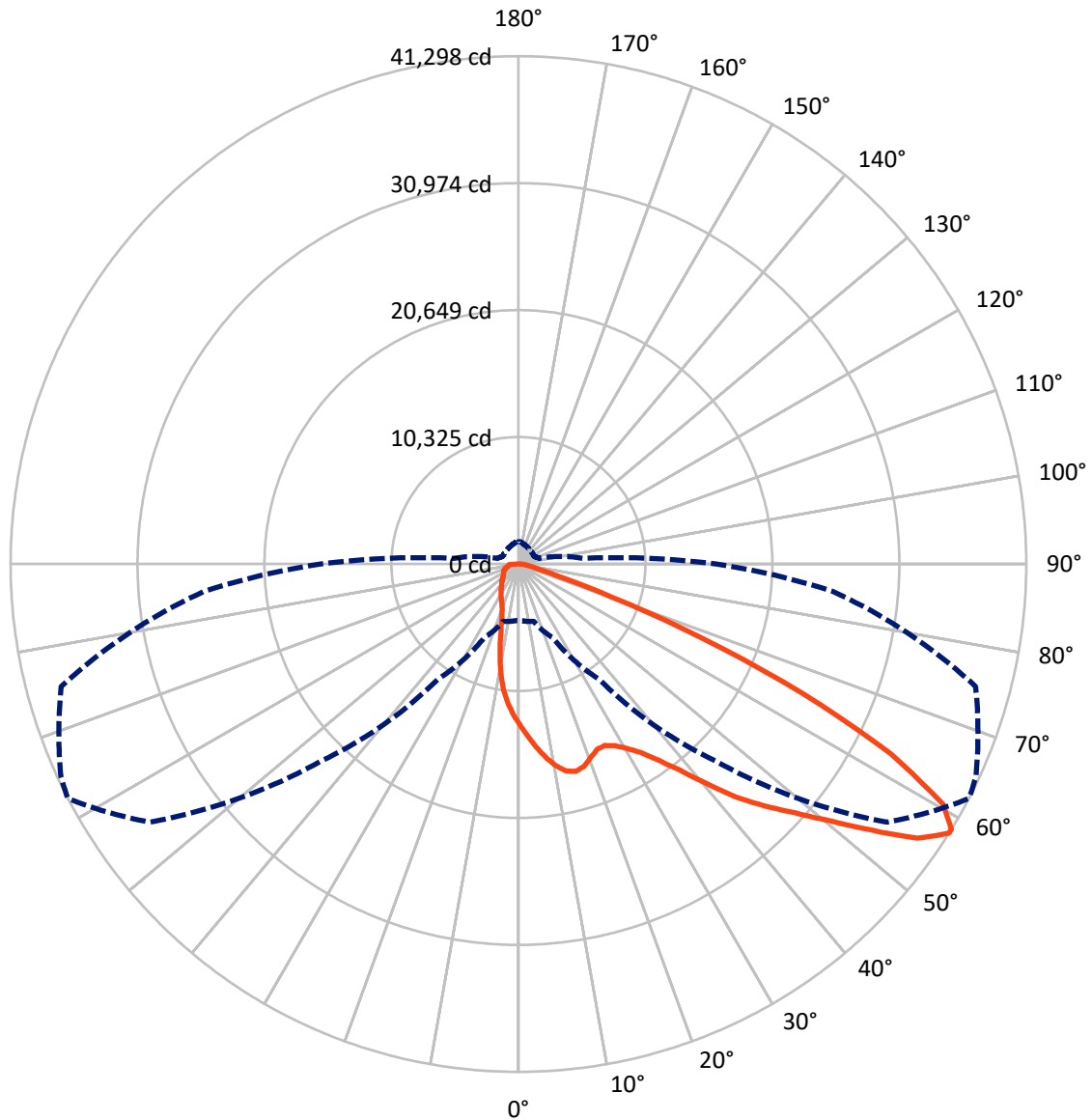
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.7 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
House Side	Lumens	7496.8	0.0	7496.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	41661.2	0.0	41661.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	49158.0	0.0	49158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1167.8	2.4
10°-20°	2985.2	6.1
20°-30°	4825.6	9.8
30°-40°	7660.6	15.6
40°-50°	11209.1	22.8
50°-60°	11723.7	23.8
60°-70°	6926.4	14.1
70°-80°	1951.2	4.0
80°-90°	708.4	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°	49158.0	100.0
0°-180°	49158.0	100.0

Coefficient of Utilization



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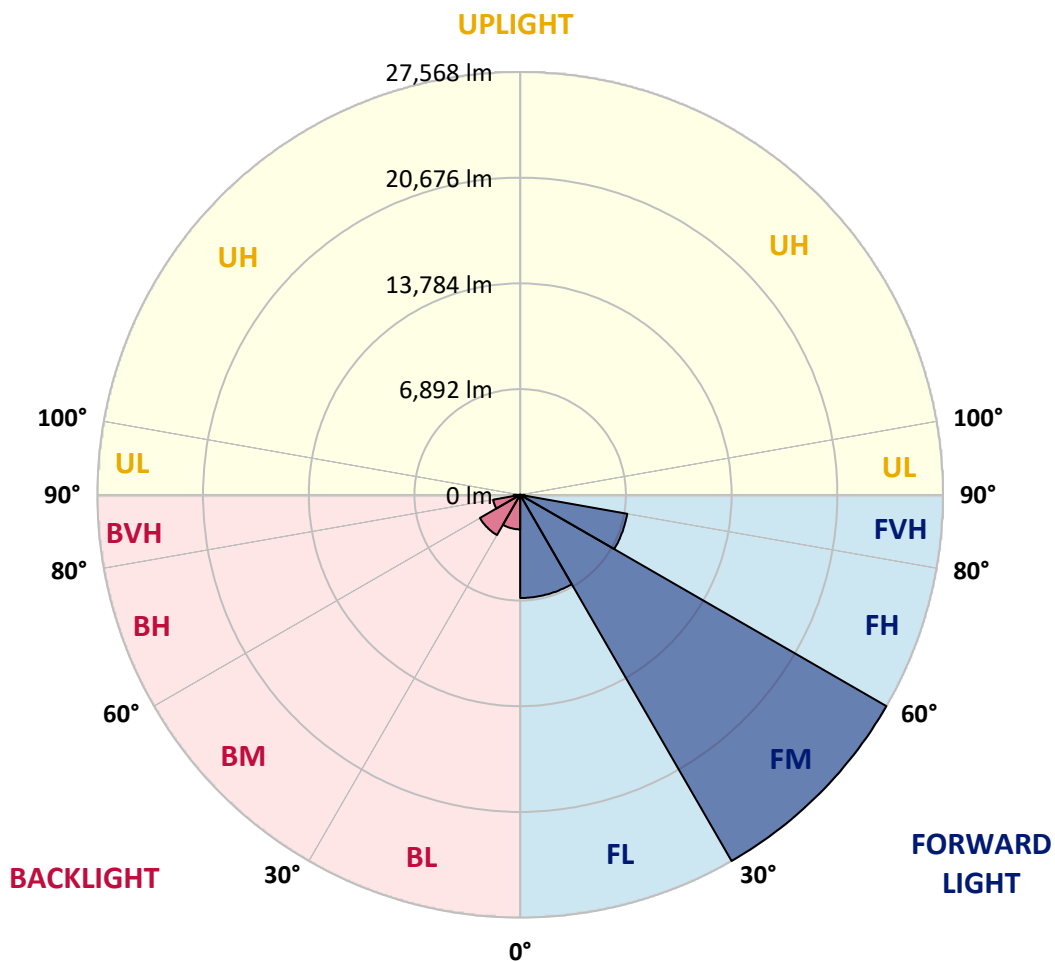
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6725.4	13.7			
FM (30°-60°)	27567.5	56.1			
FH (60°-80°)	7088.8	14.4			G3/7500
FVH (80°-90°)	279.5	0.6			G3/500
BL (0°-30°)	2253.2	4.6	B3/2500		
BM (30°-60°)	3025.9	6.2	B3/5000		
BH (60°-80°)	1788.8	3.6	B3/2500		G3/2500
BVH (80°-90°)	428.9	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°	13057.8	13057.8	13057.8	13057.8	13057.8	13057.8	13057.8	13057.8	13057.8	13057.8	13057.8
2.5°	14921.2	14800.9	14724.5	14657.3	14569.4	14381.9	14129.6	13969.9	13888.8	13613.4	13287.0
5°	16384.2	16277.7	16199.0	16108.7	15951.3	15657.3	15249.9	14925.9	14766.1	14215.2	13562.4
7.5°	16041.6	16085.6	16222.2	16460.6	16664.3	16624.9	16261.5	15849.5	15638.8	14872.6	13881.9
10°	13976.8	14053.2	14289.3	14847.2	15749.9	16675.9	16958.3	16673.5	16460.6	15523.1	14210.6
12.5°	13562.4	13560.1	13578.7	13726.8	14263.8	15567.1	16981.4	17268.5	17141.1	16143.5	14546.2
15°	13731.4	13736.1	13722.2	13784.7	13951.3	14467.5	16273.1	17497.6	17587.9	16768.5	14893.5
17.5°	14175.9	14164.3	14111.1	14111.1	14171.2	14372.6	15439.8	17284.7	17701.3	17321.7	15199.0
20°	14921.2	14868.0	14726.8	14597.2	14532.4	14641.1	15097.2	16793.9	17504.6	17805.5	15451.3
22.5°	15824.0	15782.3	15553.2	15275.4	15050.9	15048.6	15273.1	16365.7	17164.3	18261.5	15664.3
25°	16990.7	16923.5	16583.3	16138.8	15745.3	15594.8	15657.3	16344.8	16979.1	18756.9	15854.1
27.5°	18361.0	18238.4	17835.6	17194.4	16615.7	16312.4	16222.2	16722.2	17148.1	19370.3	16118.0
30°	20023.1	19881.9	19365.7	18530.0	17712.9	17215.2	17023.1	17391.1	17708.3	20118.0	16541.6
32.5°	21914.3	21710.6	21113.3	20192.0	19118.0	18358.7	18046.2	18275.4	18527.7	21018.4	17071.7
35°	24527.7	24284.6	23421.2	22150.4	20937.4	19893.4	19393.4	19560.1	19805.5	22361.0	17837.9
37.5°	26310.1	26201.3	25627.2	24432.8	23113.3	21912.0	21138.8	21236.0	21374.9	24039.3	18819.4
40°	26293.9	26337.9	26349.4	26361.0	25462.9	24312.4	23481.4	23379.5	23351.8	25881.8	19935.1
42.5°	24976.8	25157.3	25740.6	26923.5	27469.8	26942.0	26180.5	25886.5	25740.6	28053.1	21118.0
45°	22960.6	23057.8	24150.4	26460.5	28497.6	29546.2	28969.8	28043.9	27780.0	30048.5	22099.4
47.5°	21921.2	22027.7	22715.2	25233.7	28486.0	31650.3	31983.7	30219.8	29747.6	31784.6	22946.7
50°	19446.7	19668.9	20534.6	23099.4	27446.7	32617.9	35134.1	32812.4	31835.5	33474.4	23796.2
52.5°	14902.7	15245.3	16215.2	19590.2	24810.1	32138.8	37654.9	35955.9	34576.3	35224.4	24525.4
55°	9400.4	9655.1	10469.9	13835.6	19847.1	29645.7	38611.0	39356.3	38129.5	36881.8	25157.3
57.5°	5111.1	5224.5	5530.1	7638.9	12909.7	24134.2	37217.4	41291.5	40782.2	38289.2	25634.2
58°	4574.1	4650.4	4840.3	6620.3	11449.0	22627.2	36599.4	41298.4	41043.8	38495.2	25671.2
60°	3393.5	3354.2	3185.2	3777.8	6372.7	15631.9	32863.3	39645.7	40393.4	38747.5	25490.6
62.5°	2981.5	2886.6	2541.7	2502.3	3099.5	7201.4	25145.7	33960.5	35726.7	37307.7	24393.4
65°	2800.9	2699.1	2254.6	2111.1	2236.1	3046.3	14812.4	25469.8	27685.1	32942.0	21587.9
67.5°	2666.7	2534.7	2071.8	1875.0	1884.3	2013.9	5937.5	16041.6	18534.6	25011.5	16791.6
70°	2537.0	2393.5	1916.7	1689.8	1636.6	1592.6	2361.1	8030.1	10291.6	15798.5	10706.0
72.5°	2398.1	2256.9	1780.1	1544.0	1439.8	1294.0	1541.7	3284.7	4587.9	7474.5	4856.5
75°	2196.8	2069.4	1643.5	1414.3	1266.2	1071.8	1164.3	1715.3	2057.9	2976.8	2340.3
77.5°	1949.1	1844.9	1490.7	1307.9	1122.7	870.4	895.8	1189.8	1319.4	1703.7	1391.2
80°	1400.5	1437.5	1326.4	1175.9	1000.0	706.0	687.5	868.1	937.5	1094.9	905.1
82.5°	983.8	1004.6	1097.2	960.6	826.4	555.6	506.9	611.1	652.8	719.9	488.4
85°	678.2	655.1	752.3	669.0	597.2	370.4	347.2	414.4	439.8	446.8	252.3
87.5°	407.4	407.4	435.2	358.8	321.8	192.1	187.5	236.1	252.3	240.7	138.9
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°	13057.8	13057.8	13057.8	13057.8	13057.8	13057.8	13057.8	13057.8	13057.8	13057.8	13057.8
2.5°	13092.5	12928.2	12578.7	12298.6	11944.4	11576.3	11370.3	11150.4	11000.0	10891.2	11064.8
5°	13192.1	12856.4	12134.2	11449.0	10692.1	9905.1	9307.8	8752.3	8365.7	8125.0	8351.8
7.5°	13349.5	12833.3	11682.8	10511.5	9152.7	7842.6	6671.3	5937.5	5509.2	5298.6	5430.5
10°	13530.0	12796.2	11152.7	9240.7	7296.3	5645.8	4770.8	4474.5	4377.3	4337.9	4356.5
12.5°	13680.5	12717.5	10502.3	7703.7	5479.1	4458.3	4206.0	4199.1	4219.9	4224.5	4231.5
15°	13787.0	12601.8	9537.0	6101.8	4381.9	4062.5	4048.6	4090.3	4129.6	4145.8	4155.1
17.5°	13858.7	12363.4	8446.7	4824.1	3925.9	3870.4	3902.8	3956.0	3997.7	4009.2	4018.5
20°	13851.8	12013.8	7148.1	4023.1	3678.2	3678.2	3733.8	3775.4	3777.8	3763.9	3770.8
22.5°	13780.0	11534.7	5888.9	3597.2	3458.3	3497.7	3553.2	3513.9	3351.8	3245.4	3252.3
25°	13659.7	10962.9	4810.2	3326.4	3254.6	3324.1	3307.9	3011.6	2780.1	2675.9	2675.9
27.5°	13553.2	10287.0	3981.5	3090.3	3050.9	3136.6	2849.5	2581.0	2483.8	2435.2	2419.0
30°	13476.8	9557.8	3428.2	2863.4	2858.8	2796.3	2472.2	2398.1	2381.9	2342.6	2328.7
32.5°	13495.3	8819.4	3074.1	2664.3	2680.5	2393.5	2291.7	2307.9	2294.0	2252.3	2233.8
35°	13648.1	8118.0	2842.6	2483.8	2435.2	2162.0	2185.2	2215.3	2210.6	2152.8	2134.3
37.5°	13921.2	7453.7	2689.8	2333.3	2125.0	2046.3	2083.3	2129.6	2118.0	2078.7	2064.8
40°	14208.3	6828.7	2564.8	2215.3	1942.1	1967.6	2000.0	2025.5	2037.0	2048.6	2039.3
42.5°	14488.4	6175.9	2412.0	2094.9	1865.7	1893.5	1907.4	1932.9	1995.4	2039.3	2037.0
45°	14655.0	5562.5	2254.6	1923.6	1805.5	1821.8	1812.5	1863.4	1939.8	2011.6	2013.9
47.5°	14840.2	5085.6	2129.6	1766.2	1747.7	1759.3	1731.5	1782.4	1851.8	1939.8	1949.1
50°	15064.8	4800.9	2030.1	1641.2	1669.0	1669.0	1662.0	1708.3	1805.5	1907.4	1925.9
52.5°	15319.4	4745.4	1946.8	1550.9	1590.3	1588.0	1594.9	1664.3	1770.8	1870.4	1886.6
55°	15629.6	4895.8	1856.5	1483.8	1513.9	1523.1	1546.3	1625.0	1715.3	1828.7	1835.6
57.5°	15990.7	5201.4	1784.7	1430.5	1444.4	1474.5	1511.6	1583.3	1680.5	1805.5	1812.5
58°	16050.9	5266.2	1773.1	1425.9	1430.5	1465.3	1506.9	1576.4	1673.6	1810.2	1817.1
60°	16053.2	5481.5	1747.7	1405.1	1377.3	1435.2	1481.5	1550.9	1662.0	1826.4	1842.6
62.5°	15483.7	5479.1	1729.2	1375.0	1321.8	1393.5	1446.8	1527.8	1650.5	1865.7	1898.1
65°	13634.2	4979.1	1641.2	1328.7	1277.8	1356.5	1416.7	1511.6	1682.9	2037.0	2057.9
67.5°	10664.3	4081.0	1476.8	1263.9	1219.9	1319.4	1398.1	1509.3	1717.6	2076.4	2090.3
70°	7050.9	3053.2	1296.3	1189.8	1159.7	1275.5	1407.4	1588.0	1678.2	1993.0	1956.0
72.5°	3659.7	2143.5	1150.5	1097.2	1090.3	1236.1	1541.7	1578.7	1638.9	1875.0	1828.7
75°	1921.3	1488.4	1023.1	995.4	1006.9	1226.8	1819.4	1537.0	1588.0	1794.0	1881.9
77.5°	1175.9	1201.4	914.3	902.8	925.9	1199.1	1817.1	1483.8	1513.9	1650.5	1747.7
80°	787.0	974.5	831.0	833.3	849.5	1097.2	1631.9	1400.5	1423.6	1560.2	1659.7
82.5°	497.7	576.4	754.6	794.0	773.1	905.1	1386.6	1275.5	1307.9	1784.7	1886.6
85°	252.3	361.1	655.1	763.9	696.8	634.3	1125.0	1118.1	1134.3	1287.0	1344.9
87.5°	115.7	199.1	511.6	666.7	525.5	395.8	817.1	828.7	893.5	914.3	914.3
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)