

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: P192726

Luminaire Tested: **GAN-AF-08-LED-U-AFL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192726
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: GAN-AF-08-LED-U-AFL-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51925.5 lumens
Efficiency: N/A
Efficacy: 101.6 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): 511
Input Voltage (V): NR
Input Current (A_{in}): 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

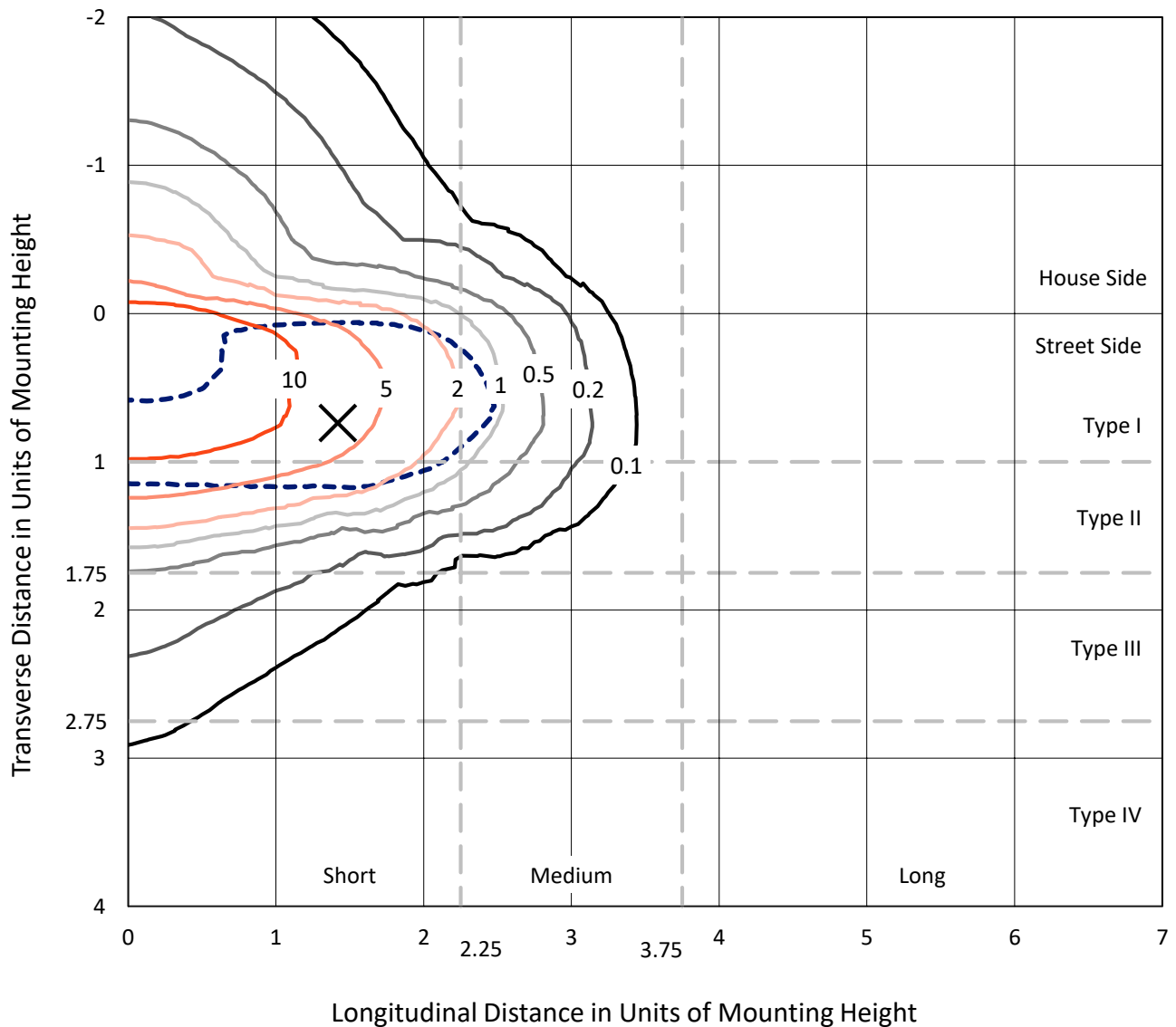


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

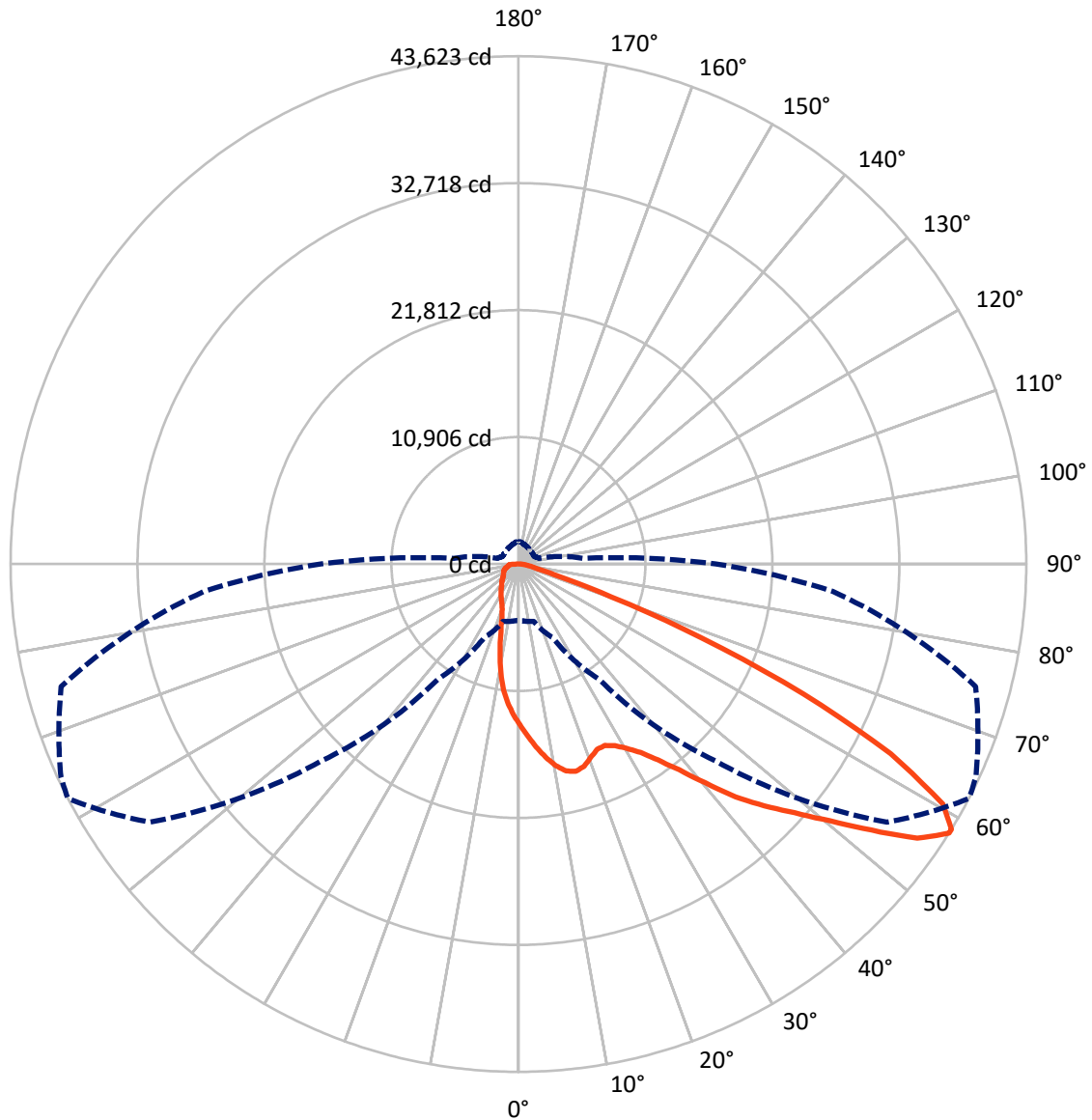


Based on 30 foot mounting height. Maximum calculated value = 18.7 fc
 Type II - Short - Full Cutoff

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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	7918.8	0.0	7918.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	44006.6	0.0	44006.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	51925.5	0.0	51925.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1233.6	2.4
10°-20°	3153.2	6.1
20°-30°	5097.3	9.8
30°-40°	8091.9	15.6
40°-50°	11840.1	22.8
50°-60°	12383.8	23.8
60°-70°	7316.3	14.1
70°-80°	2061.1	4.0
80°-90°	748.3	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°	51925.5	100.0
0°-180°	51925.5	100.0

Coefficient of Utilization



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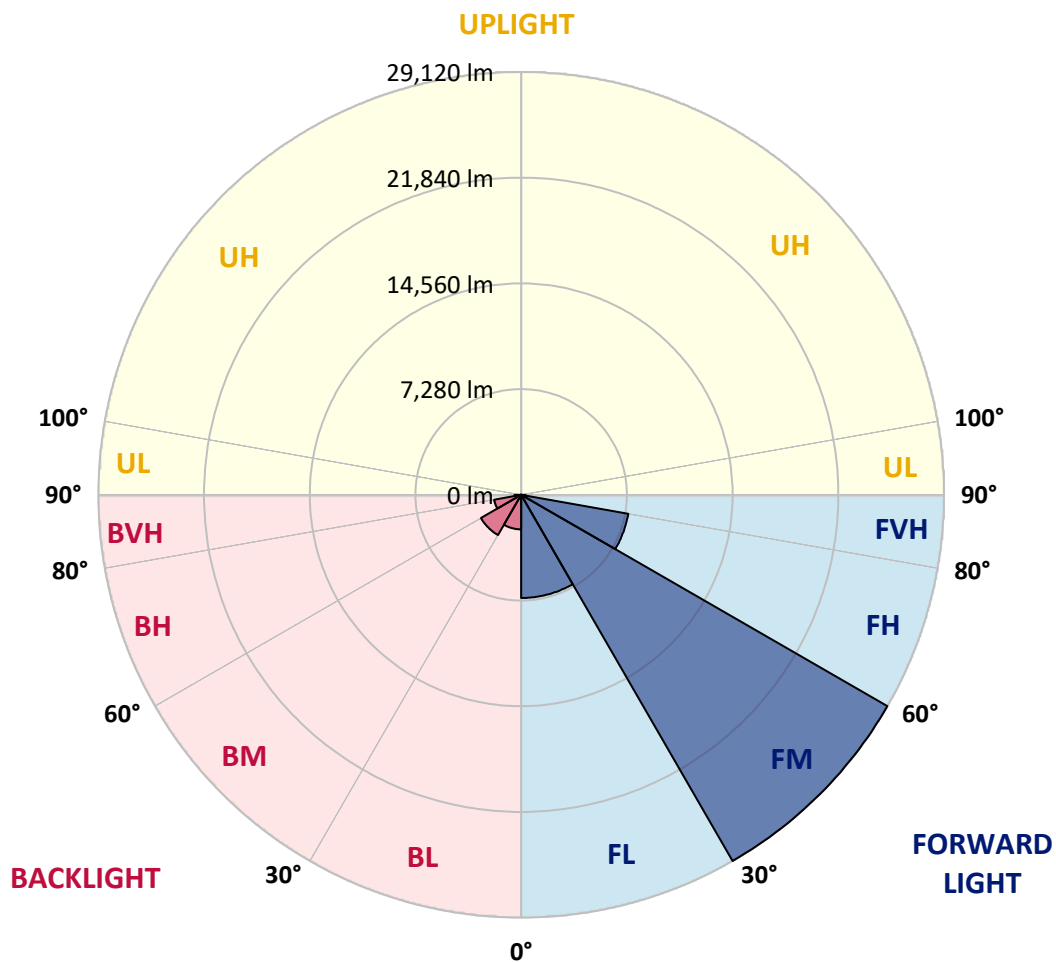
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7104.0	13.7			
FM (30°-60°)	29119.5	56.1			
FH (60°-80°)	7487.9	14.4			G3/7500
FVH (80°-90°)	295.2	0.6			G3/500
BL (0°-30°)	2380.0	4.6	B3/2500		
BM (30°-60°)	3196.2	6.2	B3/5000		
BH (60°-80°)	1889.5	3.6	B3/2500		G3/2500
BVH (80°-90°)	453.1	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°	13792.9	13792.9	13792.9	13792.9	13792.9	13792.9	13792.9	13792.9	13792.9	13792.9	13792.9
2.5°	15761.3	15634.1	15553.4	15482.5	15389.6	15191.5	14925.1	14756.3	14670.8	14379.7	14035.0
5°	17306.5	17194.1	17111.0	17015.6	16849.3	16538.8	16108.4	15766.1	15597.5	15015.5	14326.0
7.5°	16944.7	16991.1	17135.4	17387.3	17602.4	17560.9	17176.9	16741.8	16519.2	15710.0	14663.3
10°	14763.6	14844.3	15093.7	15683.1	16636.6	17614.7	17912.9	17612.3	17387.3	16397.0	15010.6
12.5°	14326.0	14323.6	14343.1	14499.6	15066.9	16443.4	17937.4	18240.7	18106.1	17052.3	15365.1
15°	14504.5	14509.4	14494.7	14560.8	14736.8	15282.0	17189.2	18482.8	18578.0	17712.4	15731.9
17.5°	14974.0	14961.8	14905.4	14905.4	14969.1	15181.8	16309.0	18257.8	18697.9	18296.9	16054.7
20°	15761.3	15705.0	15555.9	15419.0	15350.5	15465.4	15947.1	17739.4	18490.1	18807.9	16321.1
22.5°	16714.9	16670.9	16428.8	16135.4	15898.2	15895.8	16132.9	17287.0	18130.6	19289.6	16546.1
25°	17947.3	17876.4	17516.9	17047.4	16631.8	16472.8	16538.8	17265.0	17935.0	19812.8	16746.6
27.5°	19394.7	19265.1	18839.7	18162.3	17551.1	17230.7	17135.4	17663.6	18113.4	20460.8	17025.5
30°	21150.3	21001.2	20455.9	19573.2	18710.1	18184.3	17981.5	18370.2	18705.1	21250.6	17472.8
32.5°	23148.0	22932.9	22302.0	21328.8	20194.3	19392.3	19062.1	19304.3	19570.7	22201.7	18032.8
35°	25908.5	25651.8	24739.8	23397.5	22116.1	21013.4	20485.2	20661.3	20920.5	23619.8	18842.1
37.5°	27791.3	27676.4	27070.0	25808.2	24414.5	23145.6	22328.9	22431.6	22578.3	25392.6	19878.8
40°	27774.1	27820.5	27832.8	27845.0	26896.4	25681.2	24803.4	24695.8	24666.4	27339.0	21057.4
42.5°	26382.9	26573.6	27189.8	28439.2	29016.3	28458.8	27654.4	27343.8	27189.8	29632.4	22306.8
45°	24253.2	24355.8	25510.0	27950.1	30101.9	31209.6	30600.7	29622.7	29344.0	31740.2	23343.6
47.5°	23155.4	23267.8	23994.0	26654.4	30089.7	33432.1	33784.3	31921.0	31422.3	33574.0	24238.5
50°	20541.5	20776.2	21690.7	24399.9	28991.8	34454.3	37112.1	34659.7	33627.9	35358.9	25135.8
52.5°	15741.7	16103.6	17128.1	20693.0	26206.8	33948.1	39774.8	37980.1	36522.8	37207.4	25906.1
55°	9929.7	10198.6	11059.3	14614.5	20964.4	31314.7	40784.7	41571.9	40276.0	38958.1	26573.6
57.5°	5398.8	5518.6	5841.4	8068.9	13636.4	25492.8	39312.7	43616.1	43078.2	40444.8	27077.2
58°	4831.6	4912.3	5112.8	6993.0	12093.6	23901.1	38659.9	43623.4	43354.5	40662.4	27116.4
60°	3584.6	3543.0	3364.5	3990.4	6731.5	16512.0	34713.5	41877.7	42667.4	40928.9	26925.8
62.5°	3149.3	3049.1	2684.7	2643.2	3274.1	7606.7	26561.4	35872.4	37738.0	39408.0	25766.7
65°	2958.6	2851.0	2381.6	2230.0	2361.9	3217.8	15646.4	26903.7	29243.7	34796.6	22803.2
67.5°	2816.8	2677.4	2188.4	1980.6	1990.3	2127.3	6271.7	16944.7	19578.0	26419.6	17736.9
70°	2679.8	2528.3	2024.6	1785.0	1728.7	1682.3	2494.1	8482.2	10871.0	16687.9	11308.7
72.5°	2533.1	2384.0	1880.4	1630.9	1520.9	1366.9	1628.4	3469.6	4846.2	7895.3	5129.8
75°	2320.4	2186.0	1736.0	1494.0	1337.5	1132.2	1229.9	1811.8	2173.7	3144.5	2472.0
77.5°	2058.8	1948.7	1574.7	1381.5	1185.9	919.4	946.3	1256.8	1393.7	1799.6	1469.5
80°	1479.3	1518.3	1401.0	1242.2	1056.3	745.8	726.2	916.9	990.3	1156.5	956.0
82.5°	1039.2	1061.2	1159.0	1014.7	872.9	586.8	535.5	645.5	689.5	760.5	515.9
85°	716.4	691.9	794.7	706.7	630.9	391.2	366.8	437.7	464.6	471.9	266.5
87.5°	430.4	430.4	459.7	379.0	339.9	202.9	198.1	249.4	266.5	254.2	146.7
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°	13792.9	13792.9	13792.9	13792.9	13792.9	13792.9	13792.9	13792.9	13792.9	13792.9	13792.9
2.5°	13829.6	13656.0	13286.8	12990.9	12616.8	12228.1	12010.5	11778.1	11619.1	11504.4	11687.7
5°	13934.7	13580.3	12817.3	12093.6	11294.0	10462.6	9831.8	9245.0	8836.7	8582.5	8822.0
7.5°	14101.0	13555.8	12340.5	11103.3	9668.1	8284.0	7046.9	6271.7	5819.3	5597.0	5736.2
10°	14291.7	13516.7	11780.6	9760.9	7707.0	5963.7	5039.4	4726.4	4623.8	4582.2	4601.7
12.5°	14450.6	13433.5	11093.5	8137.4	5787.6	4709.3	4442.8	4435.5	4457.4	4462.3	4469.7
15°	14563.1	13311.3	10073.9	6445.3	4628.7	4291.1	4276.5	4320.5	4362.0	4379.2	4389.0
17.5°	14639.0	13059.4	8922.2	5095.7	4146.9	4088.3	4122.5	4178.7	4222.8	4235.0	4244.7
20°	14631.7	12690.3	7550.6	4249.6	3885.3	3885.3	3943.9	3988.0	3990.4	3975.7	3983.1
22.5°	14555.8	12184.0	6220.3	3799.7	3653.0	3694.6	3753.3	3711.6	3540.5	3428.0	3435.4
25°	14428.7	11580.1	5081.0	3513.7	3437.9	3511.1	3494.1	3181.1	2936.6	2826.5	2826.5
27.5°	14316.2	10866.2	4205.6	3264.2	3222.7	3313.2	3010.0	2726.3	2623.7	2572.3	2555.1
30°	14235.5	10095.9	3621.2	3024.7	3019.7	2953.8	2611.4	2533.1	2516.0	2474.5	2459.8
32.5°	14255.0	9315.9	3247.0	2814.3	2831.5	2528.3	2420.6	2437.8	2423.2	2379.1	2359.6
35°	14416.4	8575.0	3002.7	2623.7	2572.3	2283.7	2308.2	2340.0	2335.1	2274.0	2254.4
37.5°	14704.9	7873.3	2841.3	2464.7	2244.6	2161.4	2200.6	2249.5	2237.3	2195.7	2181.1
40°	15008.2	7213.1	2709.2	2340.0	2051.5	2078.3	2112.6	2139.6	2151.8	2164.0	2154.1
42.5°	15304.1	6523.6	2547.8	2212.8	1970.8	2000.1	2014.7	2041.7	2107.7	2154.1	2151.8
45°	15480.1	5875.6	2381.6	2031.9	1907.2	1924.3	1914.5	1968.3	2049.0	2124.8	2127.3
47.5°	15675.7	5371.9	2249.5	1865.6	1846.1	1858.3	1829.0	1882.7	1956.1	2049.0	2058.8
50°	15912.8	5071.2	2144.3	1733.6	1762.9	1762.9	1755.6	1804.5	1907.2	2014.7	2034.3
52.5°	16181.9	5012.5	2056.4	1638.3	1679.8	1677.3	1684.7	1758.1	1870.5	1975.6	1992.8
55°	16509.5	5171.5	1960.9	1567.4	1599.1	1608.9	1633.3	1716.5	1811.8	1931.6	1939.1
57.5°	16890.9	5494.2	1885.2	1511.0	1525.8	1557.5	1596.8	1672.4	1775.1	1907.2	1914.5
58°	16954.6	5562.6	1872.9	1506.2	1511.0	1547.7	1591.8	1665.1	1767.9	1912.0	1919.4
60°	16956.9	5790.0	1846.1	1484.2	1454.9	1516.0	1564.9	1638.3	1755.6	1929.2	1946.4
62.5°	16355.4	5787.6	1826.5	1452.4	1396.2	1471.9	1528.2	1613.8	1743.3	1970.8	2005.0
65°	14401.8	5259.4	1733.6	1403.6	1349.7	1432.8	1496.5	1596.8	1777.6	2151.8	2173.7
67.5°	11264.6	4310.8	1560.0	1335.0	1288.6	1393.7	1476.8	1594.2	1814.2	2193.3	2207.9
70°	7447.8	3225.2	1369.2	1256.8	1225.1	1347.2	1486.6	1677.3	1772.7	2105.2	2066.1
72.5°	3865.7	2264.2	1215.2	1159.0	1151.7	1305.6	1628.4	1667.7	1731.1	1980.6	1931.6
75°	2029.5	1572.2	1080.8	1051.4	1063.6	1296.0	1921.9	1623.6	1677.3	1895.0	1987.9
77.5°	1242.2	1269.0	965.9	953.7	978.1	1266.6	1919.4	1567.4	1599.1	1743.3	1846.1
80°	831.4	1029.4	877.8	880.2	897.3	1159.0	1723.8	1479.3	1503.7	1648.0	1753.2
82.5°	525.7	608.8	797.1	838.7	816.7	956.0	1464.6	1347.2	1381.5	1885.2	1992.8
85°	266.5	381.5	691.9	806.9	736.0	670.0	1188.3	1181.0	1198.1	1359.5	1420.6
87.5°	122.3	210.4	540.4	704.1	555.0	418.1	863.1	875.3	943.8	965.9	965.9
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)