

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: P268658

Luminaire Tested: **GAN-AF-07-LED-U-AFL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268658
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-07-LED-U-AFL-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41166.3 lumens
Efficiency: N/A
Efficacy: 91.9 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): 448
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

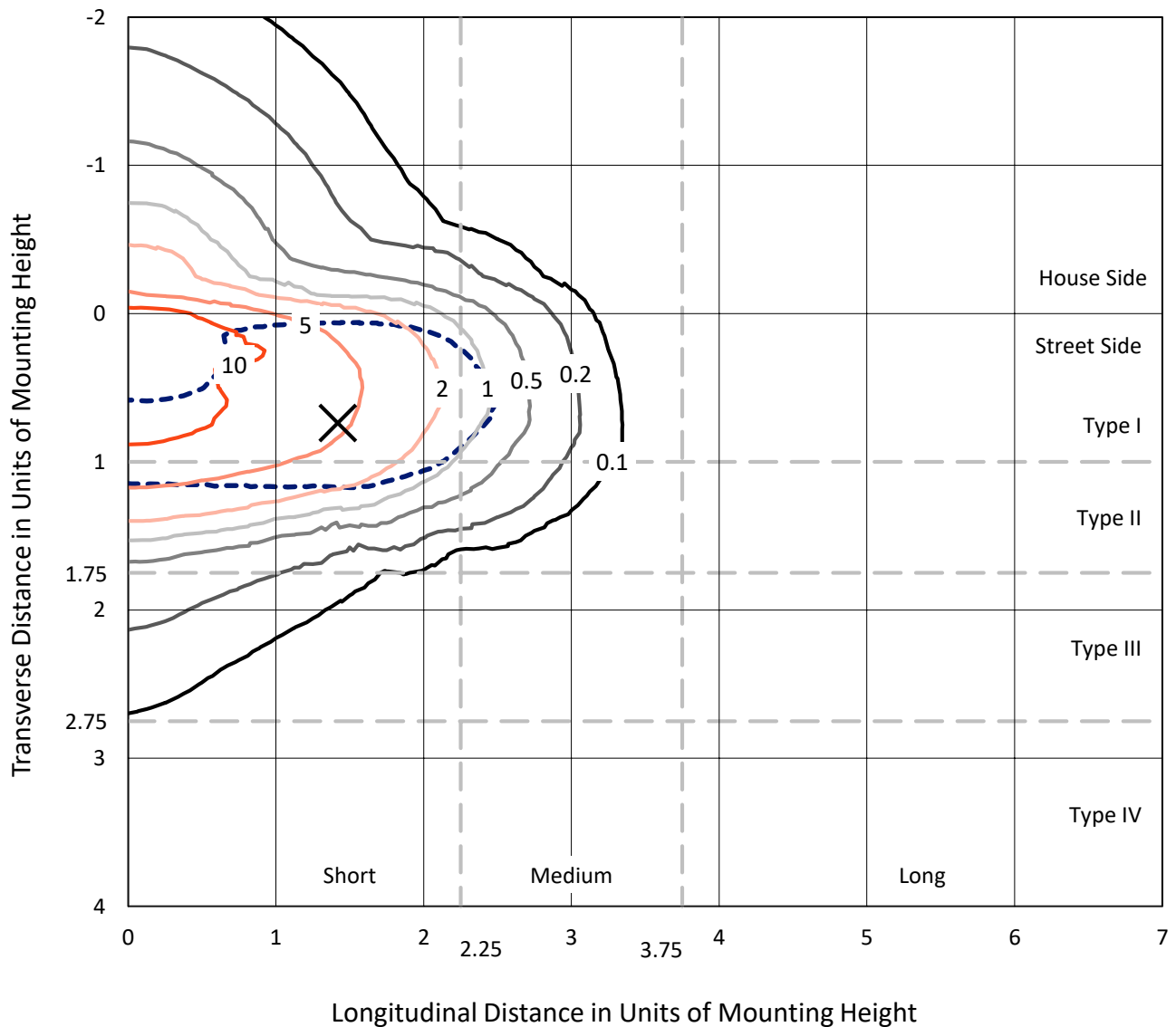


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

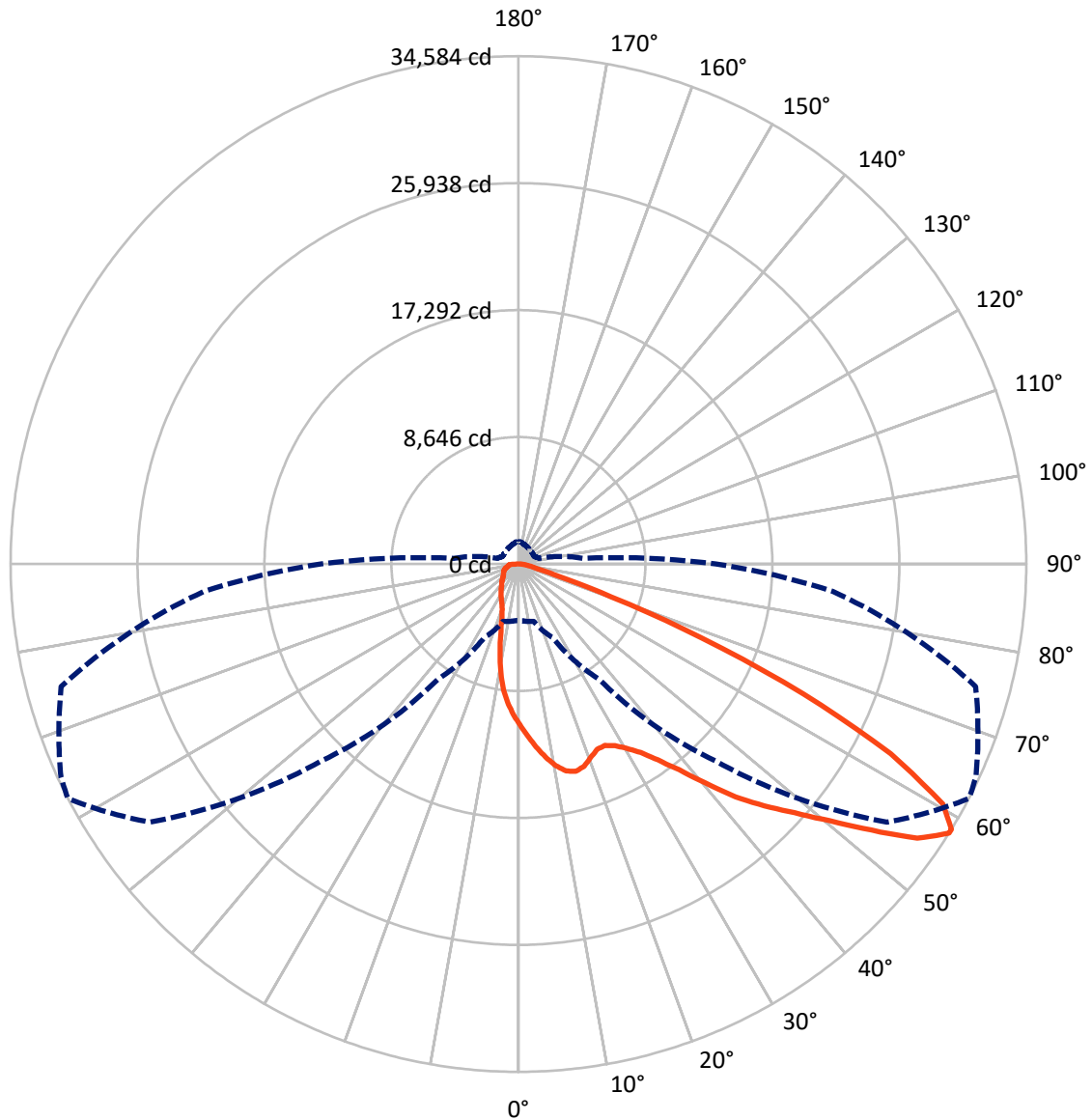


Based on 30 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - Full Cutoff

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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	6278.0	0.0	6278.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	34888.2	0.0	34888.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	41166.3	0.0	41166.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	978.0	2.4
10°-20°	2499.9	6.1
20°-30°	4041.1	9.8
30°-40°	6415.2	15.6
40°-50°	9386.8	22.8
50°-60°	9817.8	23.8
60°-70°	5800.4	14.1
70°-80°	1634.0	4.0
80°-90°	593.2	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°	41166.3	100.0
0°-180°	41166.3	100.0

Coefficient of Utilization



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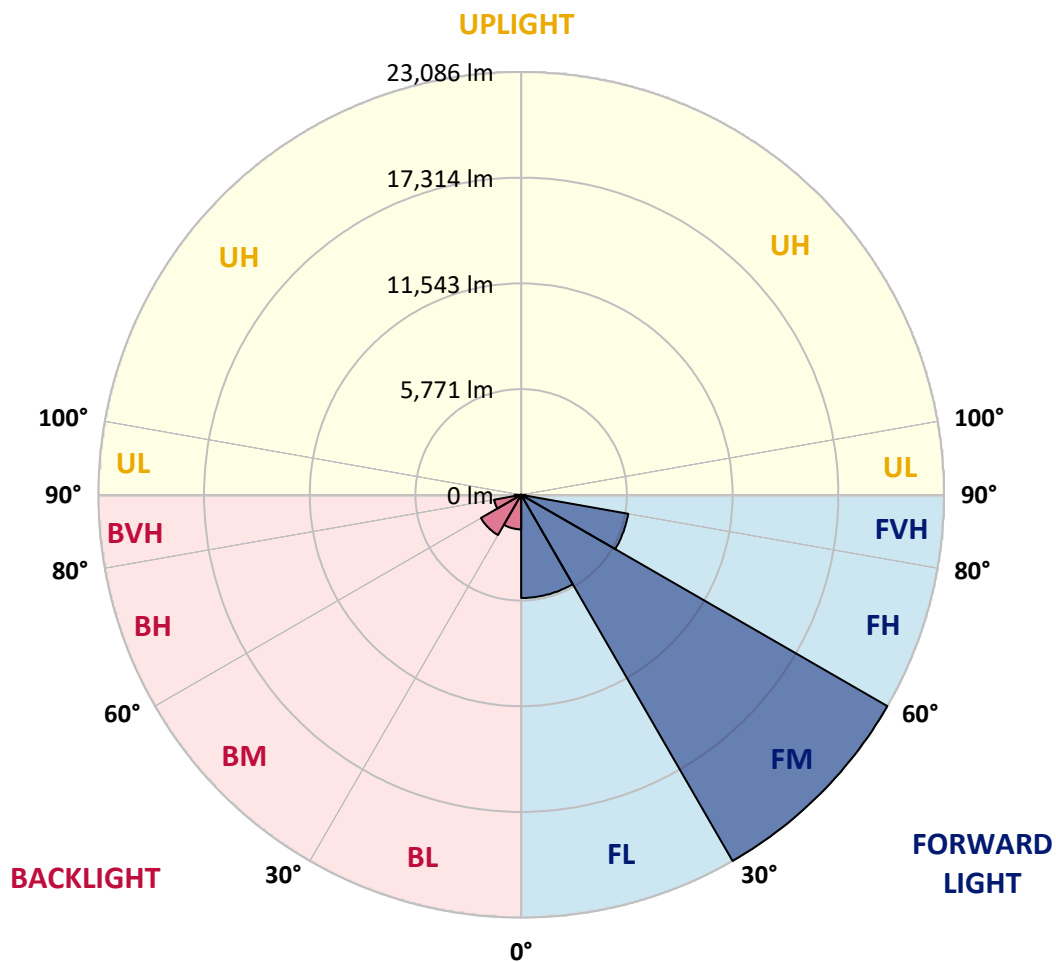
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5632.1	13.7			
FM	(30°-60°)	23085.8	56.1			
FH	(60°-80°)	5936.3	14.4			G3/7500
FVH	(80°-90°)	234.0	0.6			G3/500
BL	(0°-30°)	1886.9	4.6	B3/2500		
BM	(30°-60°)	2534.0	6.2	B3/5000		
BH	(60°-80°)	1498.0	3.6	B3/2500		G3/2500
BVH	(80°-90°)	359.2	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°	10935.0	10935.0	10935.0	10935.0	10935.0	10935.0	10935.0	10935.0	10935.0	10935.0	10935.0
2.5°	12495.5	12394.6	12330.7	12274.5	12200.8	12043.8	11832.6	11698.7	11630.9	11400.2	11126.9
5°	13720.6	13631.4	13565.6	13489.8	13358.1	13111.9	12770.8	12499.3	12365.6	11904.2	11357.6
7.5°	13433.8	13470.5	13584.9	13784.5	13955.1	13922.2	13617.9	13272.7	13096.4	12454.7	11625.1
10°	11704.6	11768.5	11966.2	12433.4	13189.5	13964.8	14201.3	13962.9	13784.5	12999.5	11900.3
12.5°	11357.6	11355.7	11371.1	11495.3	11944.9	13036.4	14220.7	14461.0	14354.5	13519.0	12181.5
15°	11499.1	11502.9	11491.3	11543.7	11683.3	12115.5	13627.6	14653.1	14728.6	14042.3	12472.2
17.5°	11871.3	11861.6	11817.1	11817.1	11867.4	12036.0	12929.7	14474.7	14823.7	14505.7	12728.1
20°	12495.5	12450.9	12332.7	12224.0	12169.8	12260.8	12642.7	14063.7	14658.8	14910.7	12939.4
22.5°	13251.4	13216.6	13024.6	12792.0	12603.9	12602.1	12790.1	13705.1	14373.9	15292.7	13117.7
25°	14228.4	14172.3	13887.3	13515.1	13185.5	13059.6	13111.9	13687.7	14218.8	15707.6	13276.7
27.5°	15376.1	15273.3	14935.9	14399.0	13914.4	13660.4	13584.9	14003.6	14360.2	16221.2	13497.7
30°	16767.9	16649.6	16217.3	15517.5	14833.3	14416.4	14255.7	14563.9	14829.4	16847.4	13852.5
32.5°	18351.7	18181.1	17680.9	16909.3	16010.0	15374.1	15112.5	15304.3	15515.6	17601.4	14296.3
35°	20540.1	20336.5	19613.6	18549.3	17533.6	16659.3	16240.5	16380.1	16585.6	18725.8	14937.9
37.5°	22032.8	21941.7	21461.0	20460.7	19355.8	18349.7	17702.2	17783.7	17899.9	20131.1	15759.9
40°	22019.3	22056.1	22065.7	22075.5	21323.2	20359.8	19664.0	19578.6	19555.5	21674.1	16694.2
42.5°	20916.2	21067.4	21555.9	22546.5	23003.9	22562.0	21924.3	21678.1	21555.9	23492.5	17684.8
45°	19227.9	19309.2	20224.3	22158.9	23864.6	24742.7	24260.2	23484.7	23263.8	25163.4	18506.7
47.5°	18357.5	18446.7	19022.2	21131.4	23855.0	26504.9	26784.0	25307.0	24911.4	26617.3	19216.3
50°	16285.3	16471.3	17196.3	19344.1	22984.7	27315.1	29422.2	27478.1	26660.0	28032.4	19927.6
52.5°	12480.0	12766.8	13579.0	16405.3	20776.7	26913.8	31533.4	30110.5	28955.1	29498.0	20538.2
55°	7872.1	8085.5	8767.7	11586.2	16620.5	24826.2	32334.0	32958.1	31930.8	30885.9	21067.4
57.5°	4280.2	4375.1	4631.0	6397.0	10810.9	20210.6	31167.0	34578.6	34152.2	32064.5	21466.7
58°	3830.5	3894.4	4053.3	5544.1	9587.7	18948.7	30649.4	34584.4	34371.3	32236.9	21497.8
60°	2841.8	2808.9	2667.3	3163.7	5336.7	13090.6	27520.7	33200.4	33826.5	32448.2	21346.6
62.5°	2496.7	2417.2	2128.4	2095.4	2595.7	6030.6	21057.8	28439.5	29918.5	31242.5	20427.7
65°	2345.6	2260.2	1888.1	1768.0	1872.5	2551.0	12404.3	21329.1	23184.3	27586.6	18078.3
67.5°	2233.1	2122.7	1734.9	1570.1	1578.0	1686.5	4972.2	13433.8	15521.5	20945.3	14061.8
70°	2124.6	2004.4	1605.0	1415.1	1370.5	1333.7	1977.3	6724.6	8618.5	13230.1	8965.4
72.5°	2008.3	1890.0	1490.6	1293.0	1205.7	1083.6	1291.0	2750.7	3842.1	6259.4	4066.9
75°	1839.5	1733.0	1376.4	1184.4	1060.4	897.5	975.1	1436.4	1723.3	2492.8	1959.8
77.5°	1632.2	1544.9	1248.4	1095.3	940.2	728.9	750.2	996.4	1104.9	1426.7	1165.0
80°	1172.7	1203.8	1110.8	984.7	837.4	591.3	575.8	726.9	785.1	916.9	757.9
82.5°	823.8	841.4	918.8	804.4	692.1	465.2	424.4	511.8	546.7	602.9	409.0
85°	568.0	548.5	630.0	560.3	500.1	310.2	290.8	346.9	368.3	374.1	211.3
87.5°	341.1	341.1	364.4	300.5	269.4	160.8	157.1	197.7	211.3	201.6	116.3
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°	10935.0	10935.0	10935.0	10935.0	10935.0	10935.0	10935.0	10935.0	10935.0	10935.0	10935.0
2.5°	10964.1	10826.5	10533.7	10299.2	10002.5	9694.4	9521.9	9337.7	9211.7	9120.5	9265.9
5°	11047.4	10766.4	10161.5	9587.7	8953.9	8294.8	7794.7	7329.5	7005.7	6804.1	6994.1
7.5°	11179.2	10747.0	9783.5	8802.6	7664.8	6567.6	5586.6	4972.2	4613.5	4437.2	4547.7
10°	11330.4	10715.9	9339.6	7738.4	6110.1	4728.0	3995.2	3747.1	3665.7	3632.7	3648.2
12.5°	11456.4	10650.0	8794.9	6451.3	4588.5	3733.5	3522.3	3516.4	3533.8	3537.7	3543.5
15°	11545.6	10553.1	7986.6	5109.9	3669.5	3402.1	3390.5	3425.2	3458.2	3471.8	3479.6
17.5°	11605.7	10353.4	7073.6	4039.8	3287.6	3241.2	3268.3	3312.9	3347.8	3357.4	3365.2
20°	11599.9	10060.7	5986.0	3369.2	3080.3	3080.3	3126.8	3161.7	3163.7	3152.0	3157.8
22.5°	11539.7	9659.5	4931.4	3012.3	2896.0	2929.1	2975.5	2942.6	2806.9	2717.7	2723.7
25°	11438.9	9180.7	4028.2	2785.6	2725.5	2783.7	2770.2	2522.0	2328.0	2240.9	2240.9
27.5°	11349.8	8614.7	3334.1	2587.8	2554.9	2626.6	2386.3	2161.4	2079.9	2039.3	2025.7
30°	11285.9	8004.0	2871.0	2397.8	2394.1	2341.7	2070.4	2008.3	1994.6	1961.8	1950.1
32.5°	11301.3	7385.7	2574.4	2231.2	2244.8	2004.4	1919.0	1932.7	1921.0	1886.1	1870.6
35°	11429.2	6798.3	2380.5	2079.9	2039.3	1810.5	1829.9	1855.1	1851.2	1802.8	1787.3
37.5°	11658.1	6242.0	2252.5	1954.1	1779.5	1713.6	1744.7	1783.5	1773.8	1740.7	1729.1
40°	11898.4	5718.5	2147.8	1855.1	1626.4	1647.8	1674.9	1696.2	1705.9	1715.6	1707.8
42.5°	12133.0	5171.9	2019.8	1754.3	1562.4	1585.7	1597.2	1618.7	1670.9	1707.8	1705.9
45°	12272.6	4658.3	1888.1	1610.9	1511.9	1525.6	1517.9	1560.4	1624.5	1684.5	1686.5
47.5°	12427.6	4258.9	1783.5	1479.1	1463.6	1473.2	1450.0	1492.7	1550.7	1624.5	1632.2
50°	12615.6	4020.5	1700.0	1374.3	1397.7	1397.7	1391.8	1430.6	1511.9	1597.2	1612.7
52.5°	12828.9	3973.9	1630.2	1298.8	1331.7	1329.9	1335.6	1393.8	1482.9	1566.3	1579.8
55°	13088.7	4099.9	1554.6	1242.5	1267.8	1275.6	1294.8	1360.8	1436.4	1531.4	1537.2
57.5°	13391.0	4355.8	1494.6	1198.0	1209.6	1234.8	1265.8	1325.9	1407.4	1511.9	1517.9
58°	13441.5	4410.0	1484.9	1194.0	1198.0	1227.1	1261.9	1320.1	1401.5	1515.9	1521.6
60°	13443.3	4590.2	1463.6	1176.7	1153.5	1201.8	1240.6	1298.8	1391.8	1529.5	1543.0
62.5°	12966.6	4588.5	1448.1	1151.4	1106.9	1167.0	1211.5	1279.4	1382.1	1562.4	1589.6
65°	11417.6	4169.8	1374.3	1112.7	1070.1	1135.9	1186.3	1265.8	1409.4	1705.9	1723.3
67.5°	8930.6	3417.5	1236.7	1058.5	1021.6	1104.9	1170.9	1263.8	1438.4	1738.8	1750.4
70°	5904.6	2556.8	1085.5	996.4	971.2	1068.2	1178.5	1329.9	1405.4	1669.1	1638.0
72.5°	3064.7	1795.1	963.4	918.8	913.0	1035.1	1291.0	1322.0	1372.4	1570.1	1531.4
75°	1609.0	1246.5	856.9	833.5	843.2	1027.4	1523.6	1287.1	1329.9	1502.3	1575.9
77.5°	984.7	1006.1	765.6	756.1	775.3	1004.1	1521.6	1242.5	1267.8	1382.1	1463.6
80°	659.0	816.1	695.8	697.9	711.4	918.8	1366.6	1172.7	1192.2	1306.6	1389.9
82.5°	416.8	482.7	632.0	664.8	647.5	757.9	1161.1	1068.2	1095.3	1494.6	1579.8
85°	211.3	302.4	548.5	639.8	583.4	531.2	942.1	936.4	949.9	1077.7	1126.3
87.5°	96.9	166.7	428.4	558.2	440.0	331.5	684.2	694.0	748.3	765.6	765.6
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)