

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: P268738

Luminaire Tested: **GAN-AF-08-LED-U-AFL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268738
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 46644.9 lumens
Efficiency: N/A
Efficacy: 91.3 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 (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

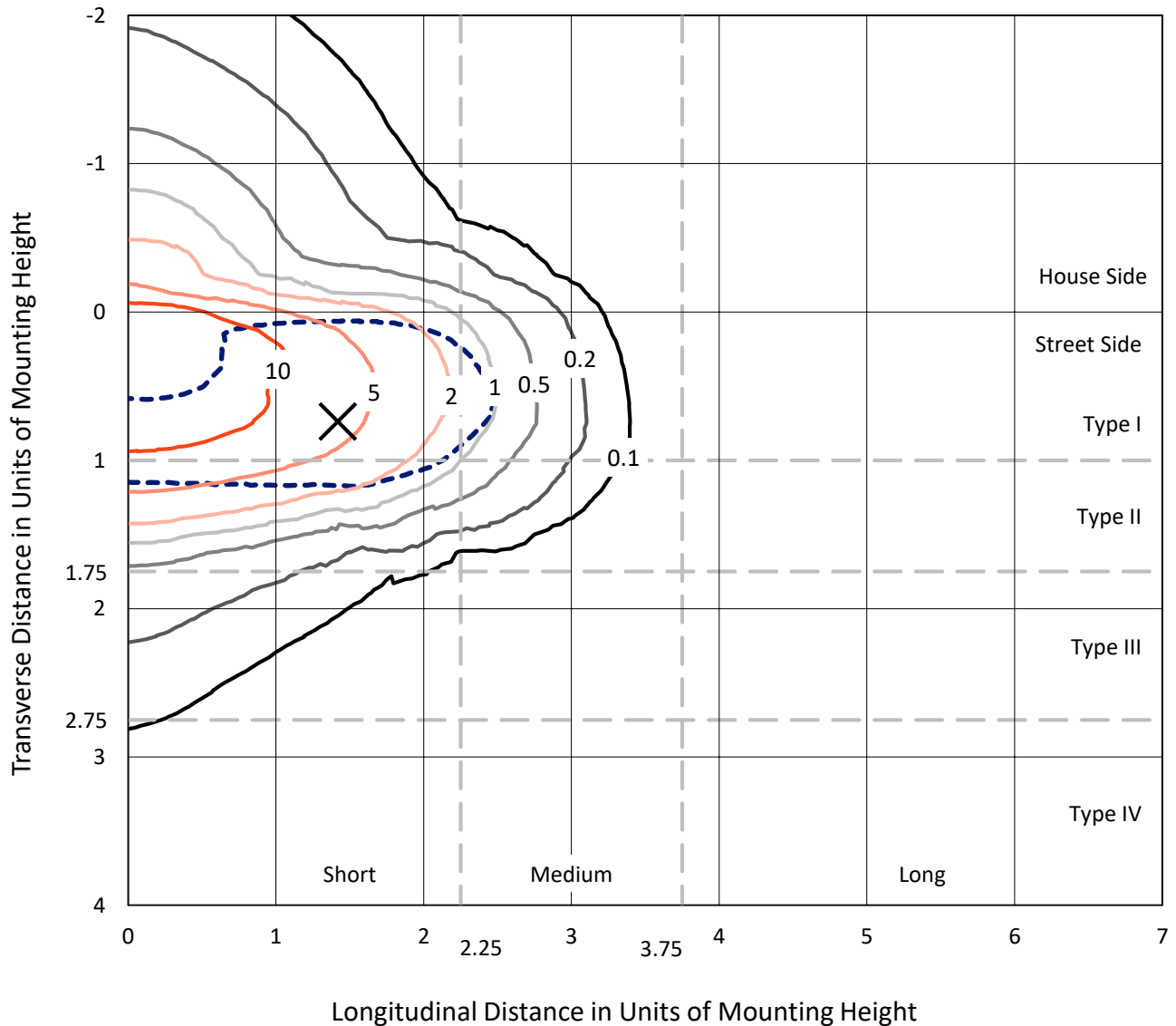


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

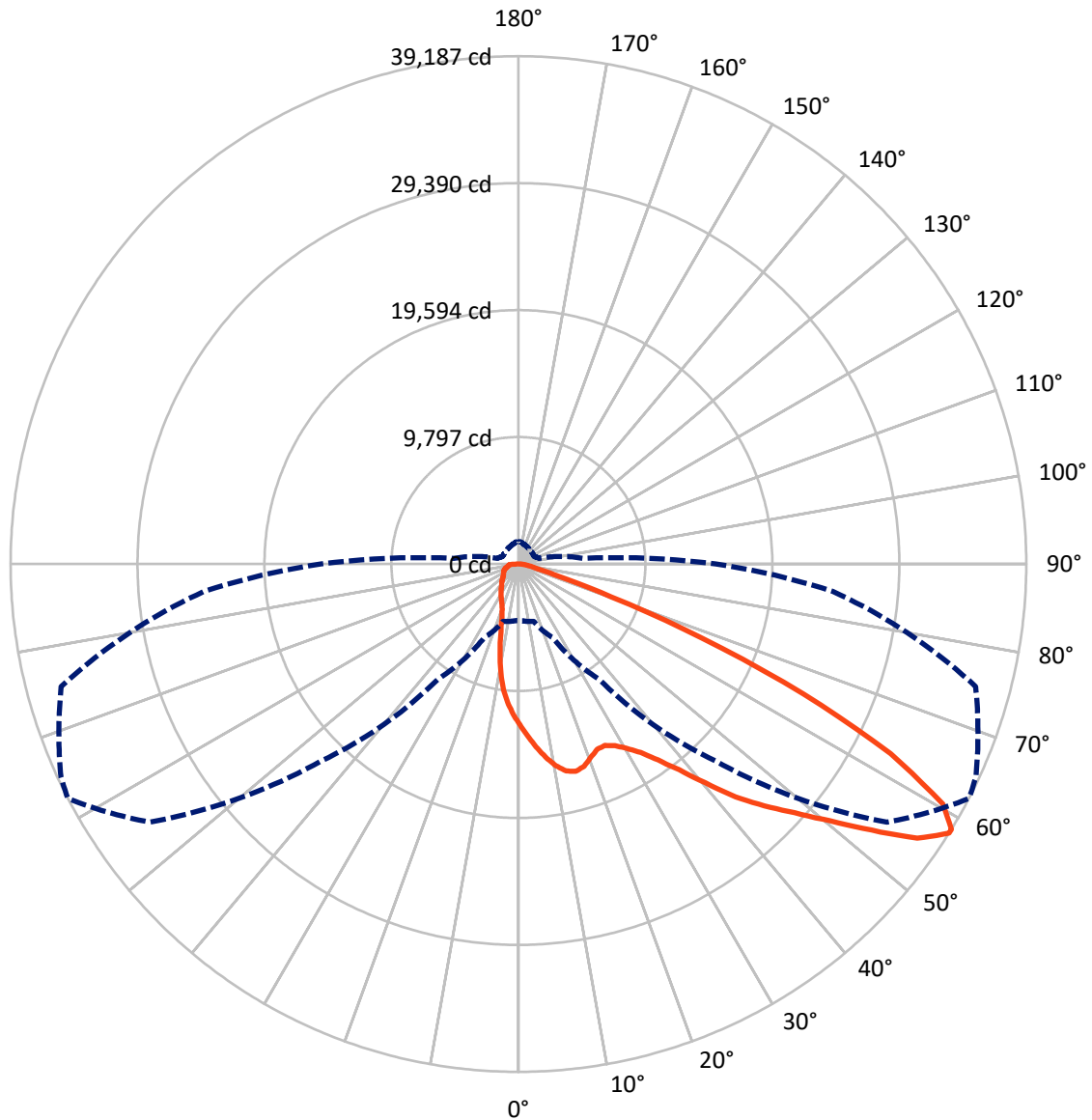


Based on 30 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - Full Cutoff

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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	7113.5	0.0	7113.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	39531.4	0.0	39531.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	46644.9	0.0	46644.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1108.1	2.4
10°-20°	2832.5	6.1
20°-30°	4578.9	9.8
30°-40°	7269.0	15.6
40°-50°	10636.0	22.8
50°-60°	11124.4	23.8
60°-70°	6572.3	14.1
70°-80°	1851.5	4.0
80°-90°	672.2	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°	46644.9	100.0
0°-180°	46644.9	100.0



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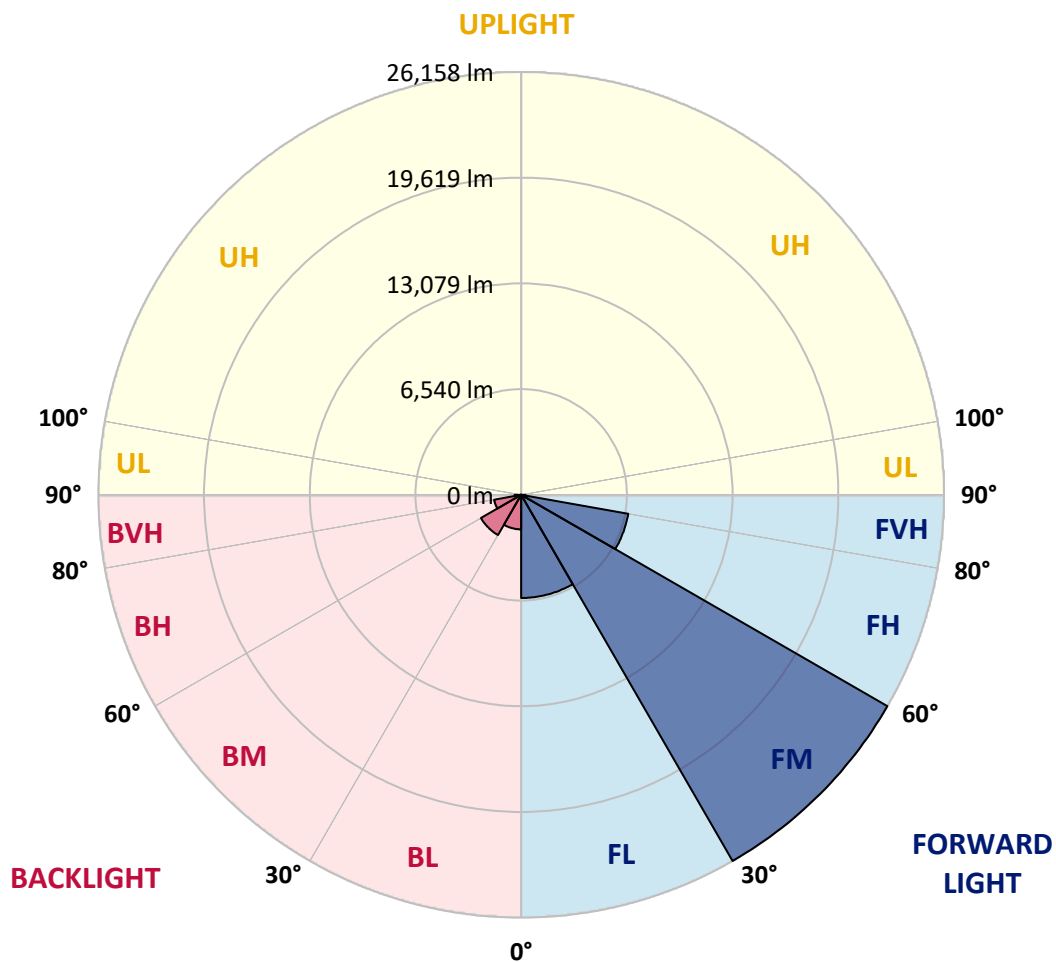
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6381.6	13.7			
FM (30°-60°)	26158.2	56.1			
FH (60°-80°)	6726.4	14.4			G3/7500
FVH (80°-90°)	265.2	0.6			G3/500
BL (0°-30°)	2138.0	4.6	B3/2500		
BM (30°-60°)	2871.2	6.2	B3/5000		
BH (60°-80°)	1697.4	3.6	B3/2500		G3/2500
BVH (80°-90°)	407.0	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°	12390.2	12390.2	12390.2	12390.2	12390.2	12390.2	12390.2	12390.2	12390.2	12390.2	12390.2
2.5°	14158.5	14044.2	13971.7	13908.0	13824.6	13646.6	13407.3	13255.7	13178.9	12917.4	12607.7
5°	15546.5	15445.5	15370.9	15285.2	15135.8	14856.9	14470.3	14162.8	14011.3	13488.5	12869.1
7.5°	15221.5	15263.2	15392.8	15619.1	15812.3	15775.0	15430.1	15039.2	14839.3	14112.4	13172.1
10°	13262.2	13334.7	13558.7	14088.2	14944.7	15823.4	16091.2	15821.2	15619.1	14729.5	13484.1
12.5°	12869.1	12867.0	12884.5	13025.1	13534.7	14771.2	16113.3	16385.7	16264.8	15318.2	13802.5
15°	13029.5	13033.9	13020.7	13080.0	13238.1	13727.9	15441.1	16603.2	16688.7	15911.1	14132.0
17.5°	13451.2	13440.3	13389.6	13389.6	13446.8	13637.9	14650.5	16401.1	16796.4	16436.2	14422.0
20°	14158.5	14107.9	13973.9	13851.0	13789.4	13892.6	14325.4	15935.4	16609.8	16895.2	14661.3
22.5°	15015.1	14975.6	14758.1	14494.5	14281.4	14279.3	14492.3	15529.0	16286.8	17327.9	14863.4
25°	16122.2	16058.5	15735.5	15313.8	14940.4	14797.6	14856.9	15509.2	16111.1	17797.9	15043.6
27.5°	17422.4	17305.9	16923.8	16315.3	15766.2	15478.4	15392.8	15867.3	16271.4	18380.0	15294.1
30°	18999.4	18865.5	18375.6	17582.7	16807.4	16335.0	16152.9	16502.0	16802.9	19089.5	15695.9
32.5°	20794.0	20600.7	20034.0	19159.8	18140.6	17420.2	17123.6	17341.2	17580.5	19943.9	16199.0
35°	23273.7	23043.1	22223.9	21018.1	19867.0	18876.4	18402.0	18560.2	18793.0	21217.8	16926.0
37.5°	24965.1	24861.9	24317.1	23183.6	21931.7	20791.8	20058.2	20150.4	20282.2	22810.3	17857.2
40°	24949.6	24991.3	25002.3	25013.3	24161.2	23069.6	22281.0	22184.4	22158.0	24558.8	18916.0
42.5°	23699.9	23871.2	24424.7	25547.1	26065.5	25564.7	24842.1	24563.1	24424.7	26618.9	20038.3
45°	21786.8	21878.9	22915.8	25107.7	27040.7	28035.7	27488.8	26610.2	26359.9	28512.4	20969.7
47.5°	20800.6	20901.6	21553.9	23943.8	27029.7	30032.2	30348.6	28674.8	28226.8	30159.7	21773.6
50°	18452.5	18663.4	19484.9	21918.6	26043.5	30950.5	33338.0	31135.0	30208.1	31763.1	22579.6
52.5°	14140.8	14465.9	15386.3	18588.6	23541.7	30495.8	35729.9	34117.7	32808.6	33423.6	23271.6
55°	8919.9	9161.5	9934.6	13128.3	18832.4	28130.2	36637.1	37344.2	36180.1	34996.3	23871.2
57.5°	4849.8	4957.4	5247.4	7248.3	12249.6	22900.3	35314.8	39180.6	38697.4	36331.8	24323.6
58°	4340.3	4412.7	4592.9	6281.8	10863.7	21470.5	34728.4	39187.1	38945.6	36527.2	24358.8
60°	3220.1	3182.7	3022.3	3584.6	6046.9	14832.8	31183.3	37619.0	38328.3	36766.6	24187.6
62.5°	2829.0	2739.0	2411.7	2374.4	2941.1	6833.1	23860.2	32224.4	33900.2	35400.4	23146.4
65°	2657.7	2561.1	2139.4	2003.2	2121.7	2890.6	14055.2	24167.7	26269.8	31258.0	20484.2
67.5°	2530.3	2405.1	1965.9	1779.2	1787.9	1911.0	5633.9	15221.5	17587.0	23732.9	15933.1
70°	2407.3	2271.2	1818.7	1603.5	1552.9	1511.2	2240.5	7619.6	9765.5	14990.8	10158.7
72.5°	2275.5	2141.6	1689.2	1465.0	1366.2	1227.9	1462.8	3116.8	4353.4	7092.4	4608.1
75°	2084.4	1963.7	1559.5	1342.1	1201.5	1017.1	1104.8	1627.5	1952.6	2824.7	2220.6
77.5°	1849.4	1750.5	1414.6	1241.0	1065.3	825.9	850.1	1129.0	1252.0	1616.6	1320.1
80°	1328.9	1363.9	1258.5	1115.9	948.9	670.0	652.3	823.7	889.6	1038.9	858.8
82.5°	933.5	953.3	1041.1	911.5	784.1	527.1	481.0	579.9	619.4	683.2	463.4
85°	643.5	621.5	713.9	634.8	566.7	351.4	329.5	393.2	417.4	423.9	239.4
87.5°	386.6	386.6	413.0	340.5	305.3	182.3	178.0	224.0	239.4	228.3	131.8
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°	12390.2	12390.2	12390.2	12390.2	12390.2	12390.2	12390.2	12390.2	12390.2	12390.2	12390.2
2.5°	12423.2	12267.3	11935.6	11669.8	11333.7	10984.6	10789.1	10580.3	10437.5	10334.5	10499.1
5°	12517.6	12199.3	11513.8	10863.7	10145.5	9398.6	8832.0	8304.8	7938.1	7709.7	7924.8
7.5°	12667.0	12177.2	11085.5	9974.2	8684.9	7441.6	6330.3	5633.9	5227.5	5027.8	5152.9
10°	12838.3	12142.1	10582.6	8768.3	6923.2	5357.2	4526.9	4245.7	4153.6	4116.2	4133.7
12.5°	12981.0	12067.4	9965.3	7309.9	5199.0	4230.4	3991.0	3984.4	4004.1	4008.5	4015.2
15°	13082.1	11957.6	9049.4	5789.8	4158.0	3854.7	3841.6	3881.1	3918.4	3933.9	3942.7
17.5°	13150.3	11731.3	8014.9	4577.5	3725.2	3672.5	3703.3	3753.7	3793.4	3804.3	3813.0
20°	13143.7	11399.8	6782.7	3817.4	3490.2	3490.2	3542.8	3582.4	3584.6	3571.4	3578.0
22.5°	13075.5	10944.9	5587.7	3413.3	3281.5	3318.9	3371.6	3334.1	3180.4	3079.4	3086.0
25°	12961.4	10402.5	4564.3	3156.4	3088.3	3154.0	3138.8	2857.6	2638.0	2539.1	2539.1
27.5°	12860.3	9761.2	3777.9	2932.2	2895.0	2976.3	2703.9	2449.0	2356.9	2310.7	2295.3
30°	12787.8	9069.2	3252.9	2717.1	2712.6	2653.4	2345.8	2275.5	2260.1	2222.9	2209.7
32.5°	12805.3	8368.5	2916.8	2528.1	2543.6	2271.2	2174.4	2189.9	2176.8	2137.2	2119.6
35°	12950.3	7703.0	2697.3	2356.9	2310.7	2051.5	2073.5	2102.0	2097.6	2042.7	2025.1
37.5°	13209.5	7072.6	2552.4	2214.1	2016.3	1941.6	1976.8	2020.7	2009.8	1972.4	1959.3
40°	13481.9	6479.6	2433.7	2102.0	1842.9	1866.9	1897.8	1922.0	1933.0	1943.9	1935.0
42.5°	13747.8	5860.2	2288.7	1987.8	1770.4	1796.7	1809.8	1834.1	1893.4	1935.0	1933.0
45°	13905.9	5278.1	2139.4	1825.3	1713.2	1728.6	1719.8	1768.1	1840.6	1908.7	1911.0
47.5°	14081.6	4825.6	2020.7	1675.9	1658.4	1669.3	1643.0	1691.2	1757.2	1840.6	1849.4
50°	14294.5	4555.5	1926.2	1557.3	1583.6	1583.6	1577.1	1621.0	1713.2	1809.8	1827.4
52.5°	14536.3	4502.8	1847.3	1471.7	1509.0	1506.7	1513.4	1579.3	1680.3	1774.7	1790.1
55°	14830.6	4645.6	1761.5	1408.0	1436.5	1445.3	1467.2	1541.9	1627.5	1735.2	1741.9
57.5°	15173.2	4935.5	1693.5	1357.3	1370.6	1399.1	1434.4	1502.3	1594.6	1713.2	1719.8
58°	15230.4	4996.9	1682.4	1353.0	1357.3	1390.3	1429.9	1495.8	1588.1	1717.6	1724.2
60°	15232.5	5201.2	1658.4	1333.3	1306.9	1361.8	1405.8	1471.7	1577.1	1733.0	1748.5
62.5°	14692.1	5199.0	1640.8	1304.7	1254.2	1322.2	1372.8	1449.7	1566.0	1770.4	1801.1
65°	12937.2	4724.5	1557.3	1260.9	1212.4	1287.1	1344.3	1434.4	1596.8	1933.0	1952.6
67.5°	10119.0	3872.4	1401.4	1199.2	1157.6	1252.0	1326.6	1432.1	1629.7	1970.3	1983.4
70°	6690.4	2897.2	1230.0	1129.0	1100.5	1210.2	1335.4	1506.7	1592.4	1891.1	1856.0
72.5°	3472.6	2033.9	1091.6	1041.1	1034.6	1172.8	1462.8	1498.1	1555.1	1779.2	1735.2
75°	1823.1	1412.3	970.9	944.5	955.4	1164.2	1726.5	1458.5	1506.7	1702.3	1785.7
77.5°	1115.9	1139.9	867.7	856.7	878.6	1137.8	1724.2	1408.0	1436.5	1566.0	1658.4
80°	746.9	924.7	788.5	790.7	806.0	1041.1	1548.5	1328.9	1350.8	1480.4	1574.9
82.5°	472.2	546.9	716.0	753.4	733.6	858.8	1315.7	1210.2	1241.0	1693.5	1790.1
85°	239.4	342.7	621.5	724.8	661.2	601.9	1067.5	1060.9	1076.3	1221.2	1276.1
87.5°	109.9	189.0	485.4	632.5	498.6	375.6	775.3	786.3	847.8	867.7	867.7
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)