

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: P192716

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192716
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47334.4 lumens
Efficiency: N/A
Efficacy: 106.4 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

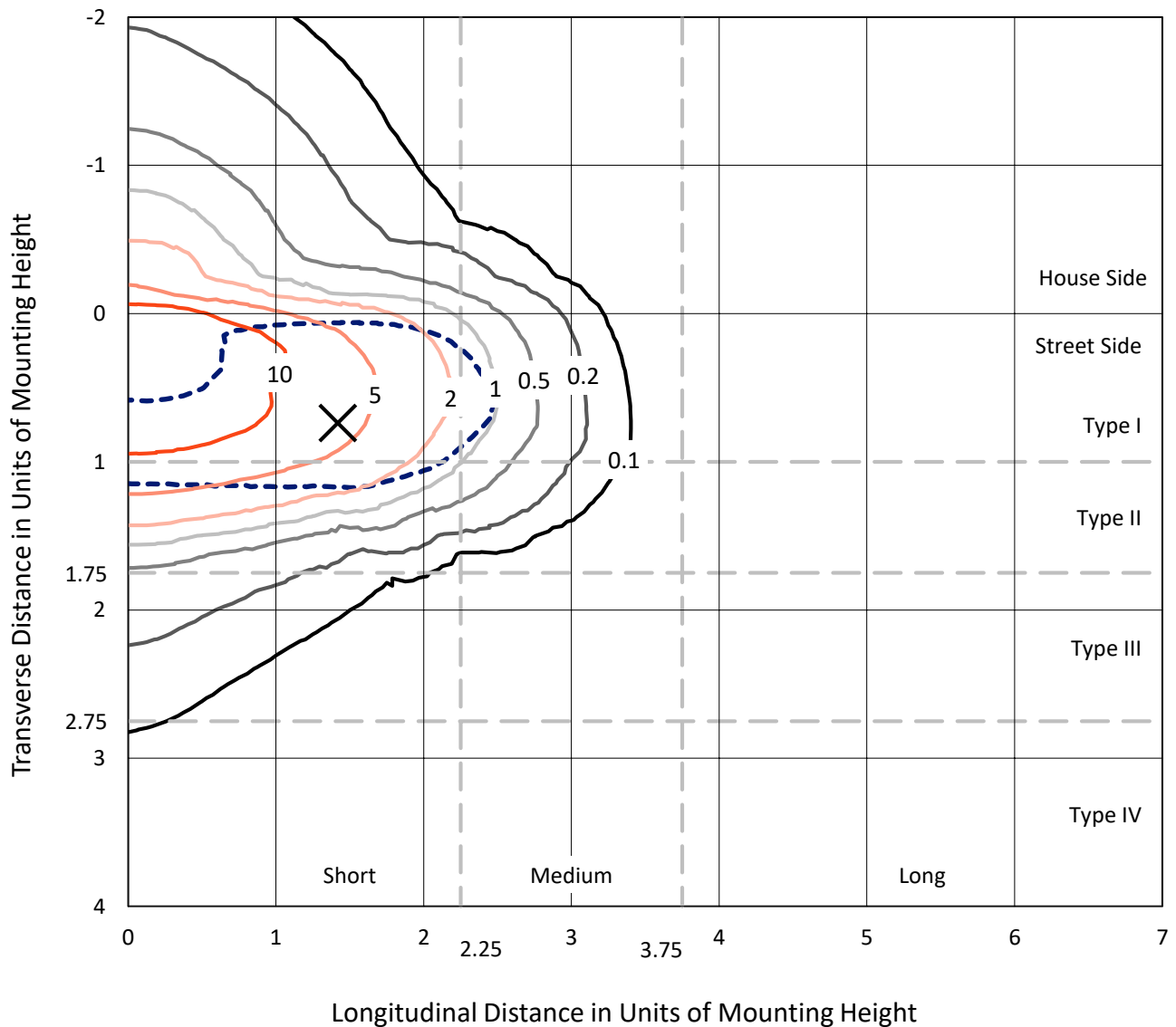
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P192716
 CATALOG NUMBER: GAN-AF-08-LED-U-AFL-7030

Iso-Footcandle Lines of Horizontal Illumination

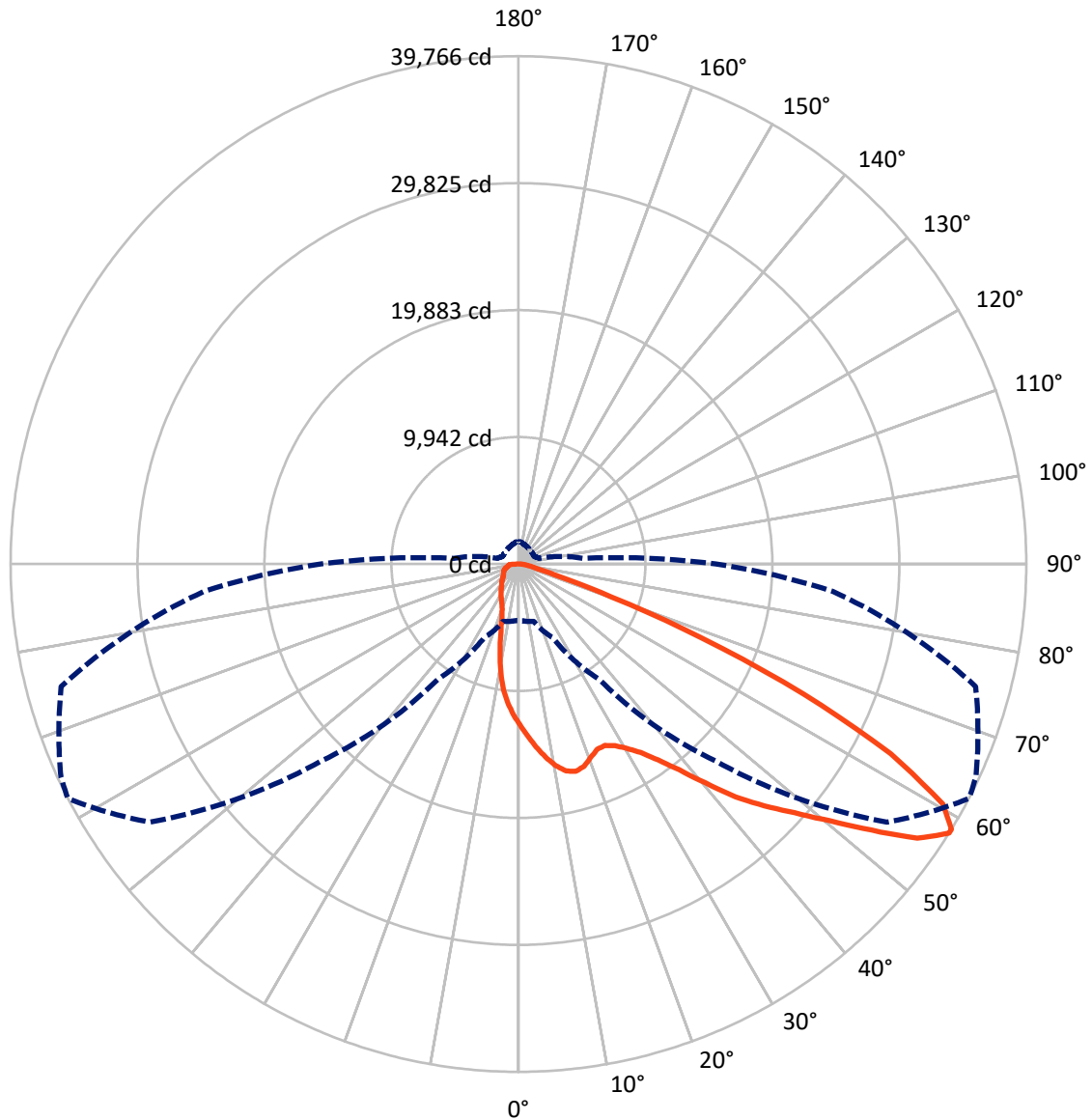
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P192716
CATALOG NUMBER: GAN-AF-08-LED-U-AFL-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

REPORT NUMBER: P192716

CATALOG NUMBER: GAN-AF-08-LED-U-AFL-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7218.7	0.0	7218.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	40115.7	0.0	40115.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	47334.4	0.0	47334.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1124.5	2.4
10°-20°	2874.4	6.1
20°-30°	4646.6	9.8
30°-40°	7376.4	15.6
40°-50°	10793.2	22.8
50°-60°	11288.8	23.8
60°-70°	6669.4	14.1
70°-80°	1878.8	4.0
80°-90°	682.1	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°	47334.4	100.0
0°-180°	47334.4	100.0

Coefficient of Utilization



REPORT NUMBER: P192716

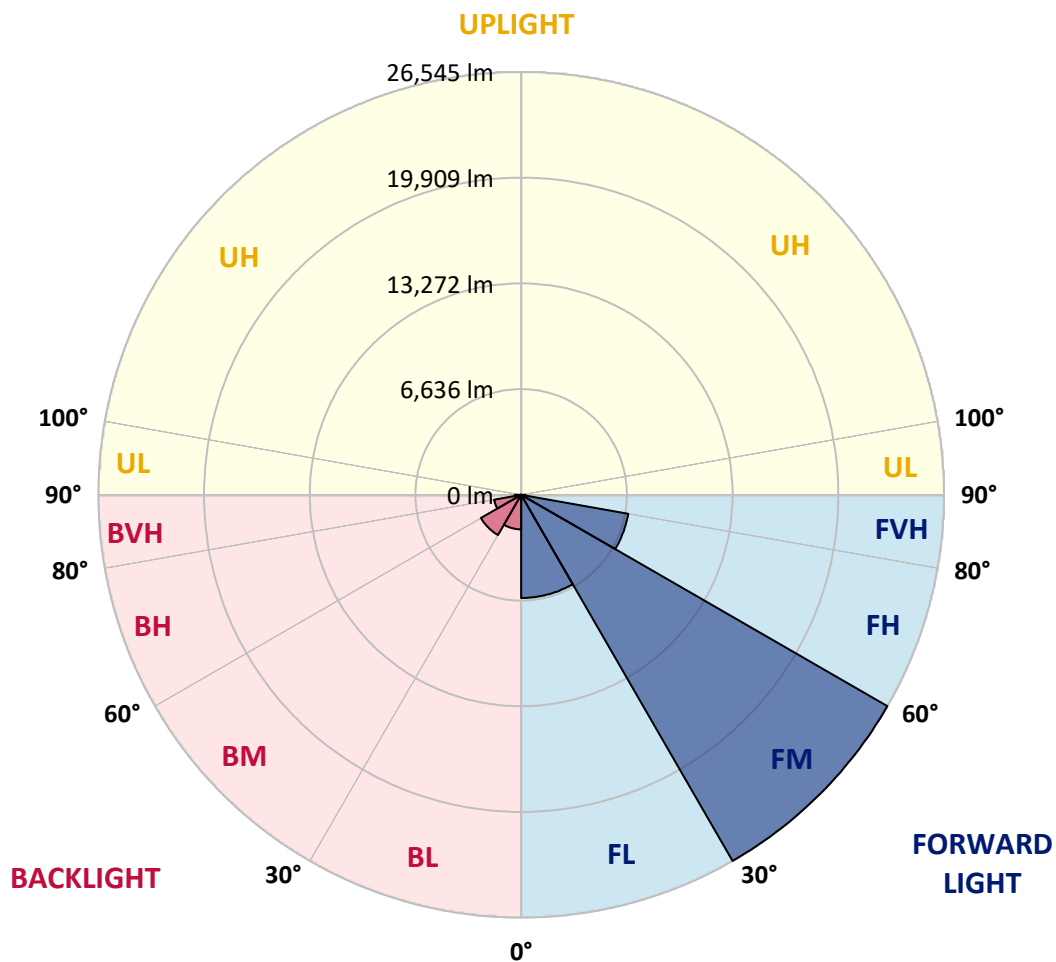
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6475.9	13.7			
FM	(30°-60°)	26544.9	56.1			
FH	(60°-80°)	6825.8	14.4			G3/7500
FVH	(80°-90°)	269.1	0.6			G3/500
BL	(0°-30°)	2169.6	4.6	B3/2500		
BM	(30°-60°)	2913.6	6.2	B3/5000		
BH	(60°-80°)	1722.4	3.6	B3/2500		G3/2500
BVH	(80°-90°)	413.0	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





REPORT NUMBER: P192716

CATALOG NUMBER: GAN-AF-08-LED-U-AFL-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	12573.4	12573.4	12573.4	12573.4	12573.4	12573.4	12573.4	12573.4	12573.4	12573.4	12573.4
2.5°	14367.7	14251.8	14178.2	14113.6	14028.9	13848.4	13605.4	13451.6	13373.6	13108.4	12794.0
5°	15776.4	15673.9	15598.1	15511.1	15359.5	15076.4	14684.2	14372.2	14218.4	13687.9	13059.3
7.5°	15446.5	15488.8	15620.4	15849.9	16046.2	16008.2	15658.3	15261.6	15058.6	14320.9	13366.9
10°	13458.3	13531.9	13759.2	14296.3	15165.6	16057.3	16329.2	16055.0	15849.9	14947.2	13683.4
12.5°	13059.3	13057.1	13074.9	13217.5	13734.7	14989.6	16351.4	16627.8	16505.2	15544.6	14006.6
15°	13222.0	13226.5	13213.2	13273.3	13433.8	13930.9	15669.4	16848.6	16935.4	16146.5	14341.0
17.5°	13650.0	13638.9	13587.6	13587.6	13645.5	13839.5	14867.0	16643.5	17044.7	16679.1	14635.2
20°	14367.7	14316.5	14180.4	14055.6	13993.3	14098.0	14537.1	16170.9	16855.2	17145.0	14878.2
22.5°	15237.0	15196.9	14976.1	14708.7	14492.4	14490.3	14706.6	15758.6	16527.5	17584.0	15083.2
25°	16360.4	16295.7	15968.1	15540.2	15161.3	15016.4	15076.4	15738.5	16349.2	18061.1	15265.9
27.5°	17679.9	17561.8	17173.9	16556.5	15999.3	15707.3	15620.4	16101.9	16512.0	18651.7	15520.1
30°	19280.3	19144.3	18647.3	17842.6	17055.8	16576.6	16391.6	16745.9	17051.3	19371.6	15928.0
32.5°	21101.4	20905.1	20330.1	19443.0	18408.8	17677.7	17376.8	17597.4	17840.4	20238.7	16438.4
35°	23617.8	23383.7	22552.3	21328.7	20160.7	19155.5	18674.0	18834.4	19070.7	21531.5	17176.2
37.5°	25334.1	25229.3	24676.5	23526.4	22255.9	21099.0	20354.7	20448.2	20581.9	23147.4	18121.2
40°	25318.4	25360.8	25371.9	25383.1	24518.4	23410.6	22610.3	22512.3	22485.4	24921.7	19195.5
42.5°	24050.1	24224.1	24785.8	25924.7	26450.8	25942.5	25209.3	24926.2	24785.8	27012.5	20334.6
45°	22108.8	22202.5	23254.5	25478.9	27440.4	28450.1	27895.1	27003.5	26749.4	28933.8	21279.7
47.5°	21108.1	21210.5	21872.5	24297.6	27429.2	30476.2	30797.1	29098.7	28644.1	30605.4	22095.4
50°	18725.3	18939.2	19772.8	22242.6	26428.5	31407.8	33830.7	31595.1	30654.6	32232.6	22913.5
52.5°	14349.9	14679.7	15613.7	18863.5	23889.7	30946.5	36258.1	34622.1	33293.6	33917.7	23615.6
55°	9051.7	9296.9	10081.5	13322.3	19110.9	28545.9	37178.6	37896.3	36715.1	35513.6	24224.1
57.5°	4921.5	5030.8	5325.0	7355.5	12430.8	23238.9	35836.8	39759.8	39269.3	36868.8	24683.2
58°	4404.3	4477.9	4660.7	6374.7	11024.3	21787.8	35241.7	39766.4	39521.3	37067.2	24719.0
60°	3267.6	3229.7	3067.0	3637.6	6136.2	15052.0	31644.2	38174.9	38894.8	37310.2	24545.0
62.5°	2870.9	2779.4	2447.4	2409.5	2984.5	6934.2	24213.0	32700.6	34401.4	35923.7	23488.5
65°	2696.9	2599.0	2171.0	2032.8	2153.2	2933.3	14262.9	24525.0	26658.0	31719.9	20787.0
67.5°	2567.7	2440.7	1994.8	1805.4	1814.4	1939.2	5717.2	15446.5	17847.1	24083.6	16168.7
70°	2442.9	2304.8	1845.6	1627.1	1575.8	1533.5	2273.4	7732.2	9909.9	15212.5	10308.8
72.5°	2309.2	2173.1	1714.1	1486.7	1386.4	1246.0	1484.5	3162.8	4417.8	7197.2	4676.3
75°	2115.3	1992.7	1582.5	1361.9	1219.3	1032.0	1121.1	1651.7	1981.5	2866.4	2253.5
77.5°	1876.7	1776.4	1435.4	1259.3	1081.0	838.1	862.6	1145.7	1270.4	1640.5	1339.6
80°	1348.5	1384.2	1277.1	1132.3	962.9	679.8	662.0	835.9	902.7	1054.3	871.6
82.5°	947.3	967.4	1056.5	925.0	795.7	535.0	488.2	588.5	628.6	693.2	470.3
85°	653.1	630.8	724.4	644.2	575.0	356.6	334.4	399.1	423.5	430.2	243.0
87.5°	392.2	392.2	419.0	345.5	309.9	184.9	180.5	227.4	243.0	231.8	133.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P192716

CATALOG NUMBER: GAN-AF-08-LED-U-AFL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12573.4	12573.4	12573.4	12573.4	12573.4	12573.4	12573.4	12573.4	12573.4	12573.4	12573.4
2.5°	12606.9	12448.6	12112.1	11842.3	11501.2	11146.8	10948.6	10736.8	10591.9	10487.1	10654.3
5°	12702.7	12379.5	11684.0	11024.3	10295.5	9537.6	8962.5	8427.6	8055.3	7823.5	8042.0
7.5°	12854.3	12357.2	11249.5	10121.6	8813.2	7551.7	6423.8	5717.2	5304.9	5102.1	5229.0
10°	13028.1	12321.5	10739.0	8897.8	7025.6	5436.4	4593.8	4308.5	4214.9	4177.0	4194.9
12.5°	13173.0	12245.8	10112.7	7417.9	5275.9	4292.9	4050.0	4043.2	4063.4	4067.8	4074.5
15°	13275.5	12134.4	9183.2	5875.4	4219.4	3911.8	3898.4	3938.6	3976.4	3992.0	4001.0
17.5°	13344.6	11904.8	8133.4	4645.0	3780.3	3726.8	3758.0	3809.3	3849.4	3860.5	3869.4
20°	13338.0	11568.2	6882.9	3873.9	3541.7	3541.7	3595.2	3635.4	3637.6	3624.2	3630.9
22.5°	13268.9	11106.8	5670.4	3463.7	3330.0	3367.9	3421.5	3383.5	3227.5	3125.0	3131.7
25°	13152.9	10556.2	4631.7	3202.9	3133.9	3200.7	3185.1	2899.8	2677.0	2576.7	2576.7
27.5°	13050.4	9905.3	3833.8	2975.6	2937.8	3020.3	2743.8	2485.2	2391.6	2344.8	2329.2
30°	12976.8	9203.2	3301.0	2757.1	2752.8	2692.5	2380.5	2309.2	2293.6	2255.6	2242.3
32.5°	12994.6	8492.2	2960.1	2565.5	2581.1	2304.8	2206.6	2222.3	2208.9	2168.8	2150.9
35°	13141.8	7816.9	2737.2	2391.6	2344.8	2081.8	2104.2	2133.1	2128.6	2072.8	2055.0
37.5°	13404.8	7177.1	2590.0	2246.8	2046.2	1970.4	2006.0	2050.6	2039.5	2001.6	1988.2
40°	13681.2	6575.3	2469.7	2133.1	1870.1	1894.5	1925.8	1950.3	1961.4	1972.5	1963.7
42.5°	13950.9	5946.8	2322.6	2017.2	1796.5	1823.3	1836.6	1861.1	1921.4	1963.7	1961.4
45°	14111.4	5356.1	2171.0	1852.3	1738.6	1754.1	1745.3	1794.2	1867.9	1936.9	1939.2
47.5°	14289.7	4897.0	2050.6	1700.7	1682.8	1693.9	1667.3	1716.3	1783.1	1867.9	1876.7
50°	14506.0	4622.8	1954.7	1580.3	1607.1	1607.1	1600.3	1645.0	1738.6	1836.6	1854.4
52.5°	14751.1	4569.3	1874.6	1493.3	1531.3	1529.1	1535.7	1602.7	1705.1	1801.0	1816.6
55°	15049.8	4714.2	1787.6	1428.8	1457.7	1466.6	1488.8	1564.7	1651.7	1760.8	1767.6
57.5°	15397.5	5008.5	1718.5	1377.4	1390.9	1419.9	1455.5	1524.6	1618.2	1738.6	1745.3
58°	15455.4	5070.8	1707.4	1373.1	1377.4	1410.9	1451.1	1517.9	1611.5	1743.0	1749.7
60°	15457.7	5278.1	1682.8	1352.9	1326.2	1381.9	1426.5	1493.3	1600.3	1758.6	1774.3
62.5°	14909.3	5275.9	1665.0	1324.0	1272.8	1341.8	1393.0	1471.0	1589.1	1796.5	1827.7
65°	13128.4	4794.4	1580.3	1279.4	1230.4	1306.2	1364.1	1455.5	1620.5	1961.4	1981.5
67.5°	10268.7	3929.6	1422.0	1217.0	1174.6	1270.4	1346.3	1453.2	1653.8	1999.3	2012.8
70°	6789.4	2939.9	1248.2	1145.7	1116.7	1228.2	1355.2	1529.1	1616.0	1919.1	1883.4
72.5°	3523.9	2064.0	1107.8	1056.5	1049.9	1190.3	1484.5	1520.2	1578.0	1805.4	1760.8
75°	1850.0	1433.2	985.2	958.4	969.5	1181.3	1752.0	1480.0	1529.1	1727.4	1812.2
77.5°	1132.3	1156.8	880.4	869.2	891.5	1154.6	1749.7	1428.8	1457.7	1589.1	1682.8
80°	757.8	938.4	800.3	802.4	818.1	1056.5	1571.3	1348.5	1370.7	1502.4	1598.1
82.5°	479.2	555.0	726.7	764.5	744.5	871.6	1335.1	1228.2	1259.3	1718.5	1816.6
85°	243.0	347.7	630.8	735.6	671.0	610.8	1083.3	1076.5	1092.1	1239.3	1295.0
87.5°	111.5	191.6	492.5	641.9	506.0	381.1	786.7	797.9	860.4	880.4	880.4
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)