

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: P268818

Luminaire Tested: **GAN-AF-09-LED-U-AFL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268818
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-09-LED-U-AFL-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 52031.3 lumens
Efficiency: N/A
Efficacy: 90.5 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 - G4

Input Watts (W): 575
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

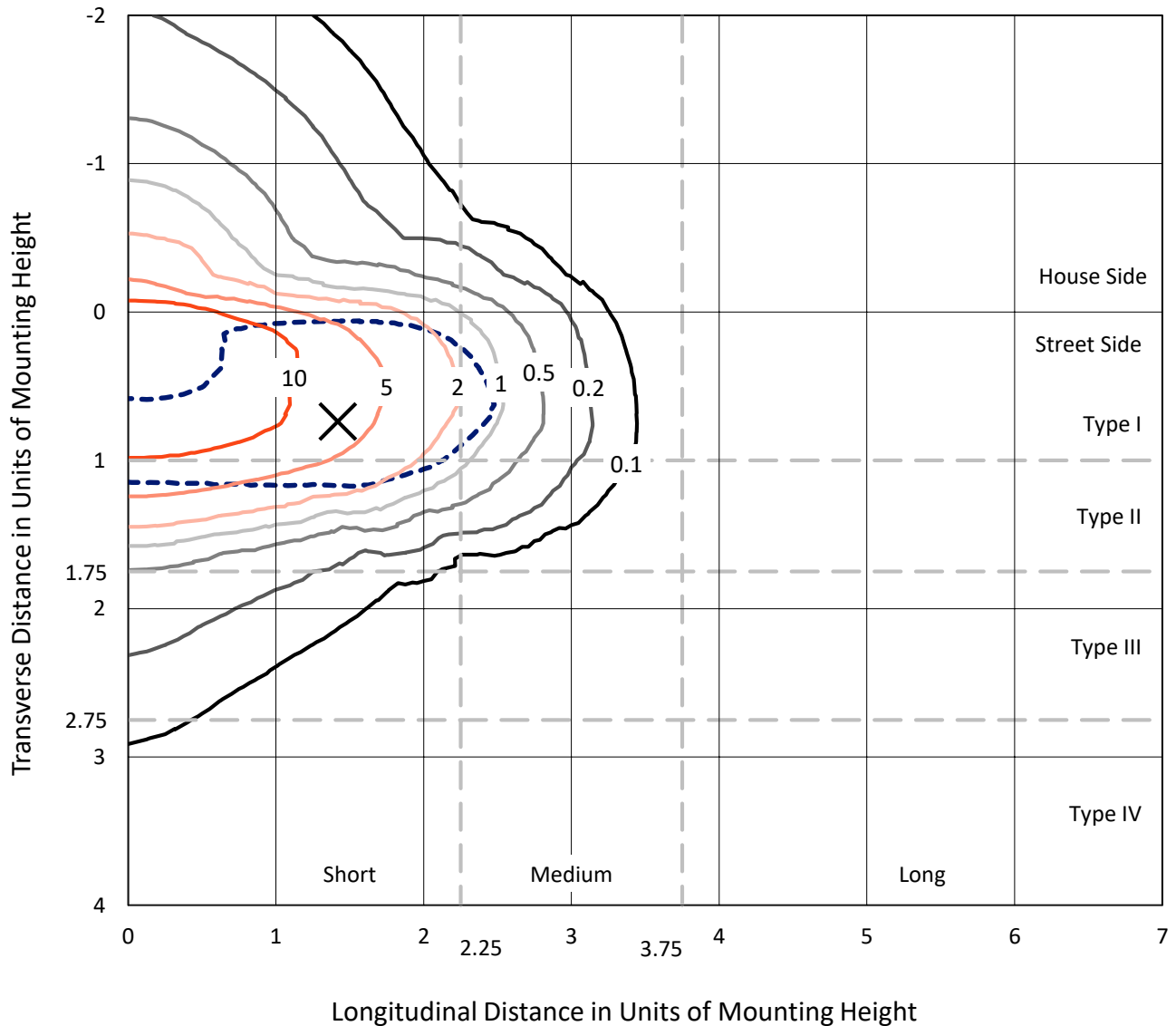


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

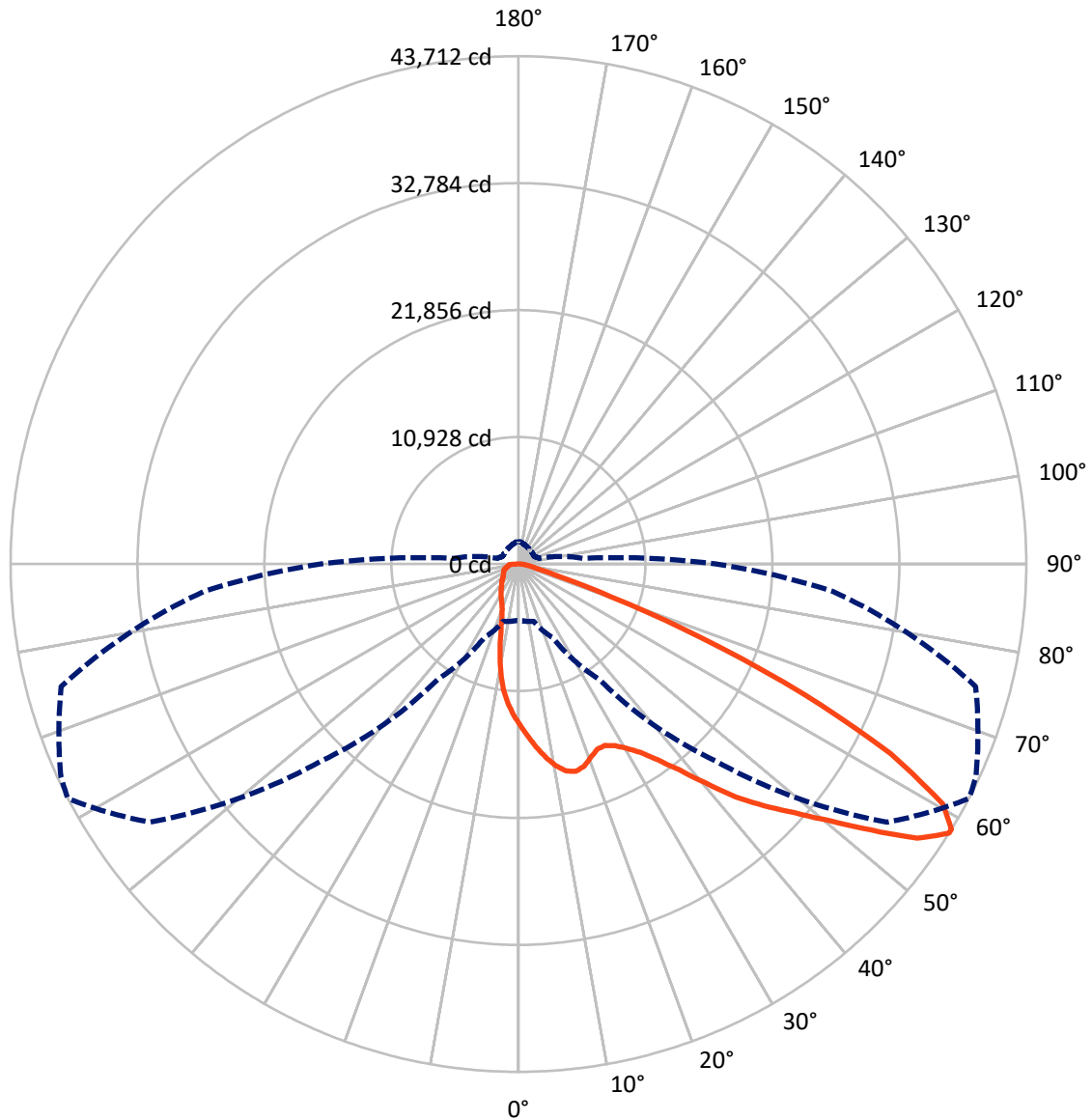


Based on 30 foot mounting height. Maximum calculated value = 18.7 fc
 Type II - Short - Full Cutoff

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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	7935.0	0.0	7935.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	44096.3	0.0	44096.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	52031.3	0.0	52031.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1236.1	2.4
10°-20°	3159.6	6.1
20°-30°	5107.7	9.8
30°-40°	8108.4	15.6
40°-50°	11864.2	22.8
50°-60°	12409.0	23.8
60°-70°	7331.2	14.1
70°-80°	2065.3	4.0
80°-90°	749.8	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°	52031.3	100.0
0°-180°	52031.3	100.0

Coefficient of Utilization



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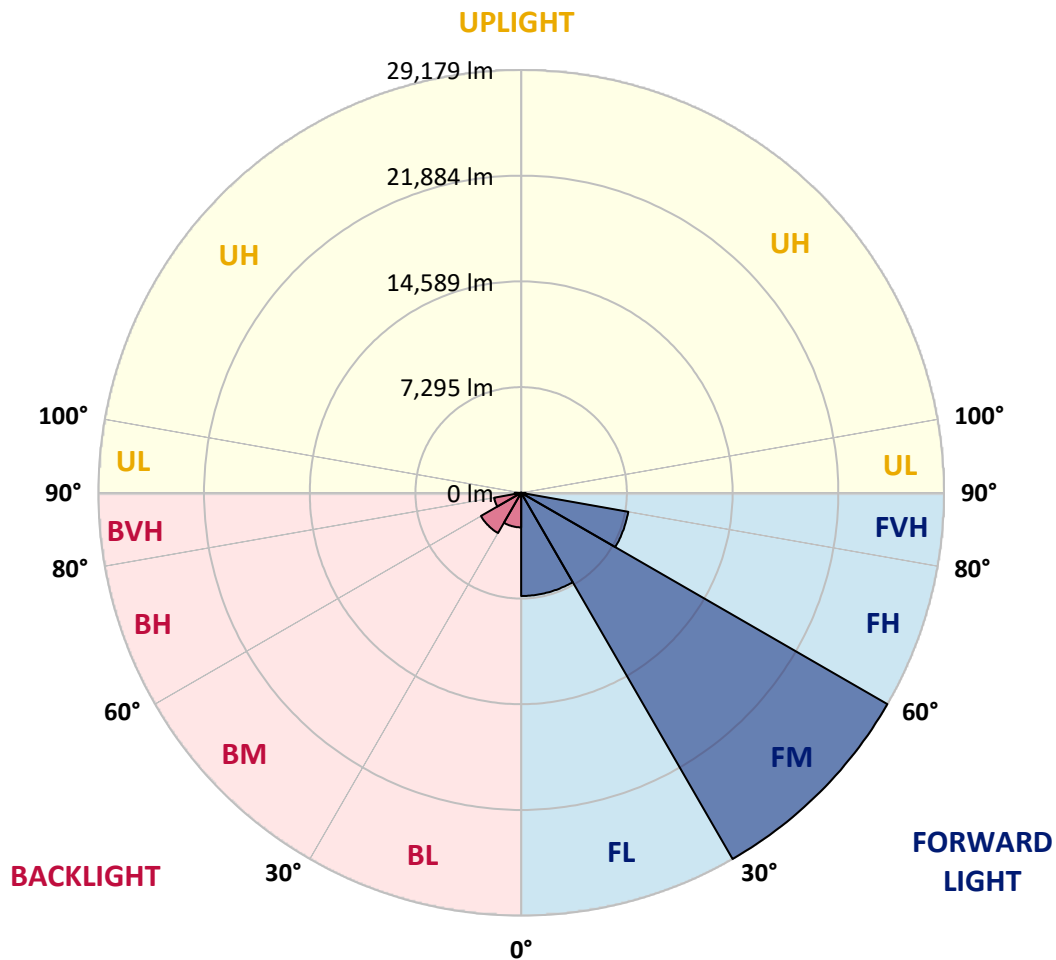
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7118.5	13.7			
FM	(30°-60°)	29178.8	56.1			
FH	(60°-80°)	7503.1	14.4			G4/12000
FVH	(80°-90°)	295.8	0.6			G3/500
BL	(0°-30°)	2384.9	4.6	B3/2500		
BM	(30°-60°)	3202.7	6.2	B3/5000		
BH	(60°-80°)	1893.4	3.6	B3/2500		G3/2500
BVH	(80°-90°)	454.0	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	13821.1	13821.1	13821.1	13821.1	13821.1	13821.1	13821.1	13821.1	13821.1	13821.1	13821.1
2.5°	15793.5	15666.0	15585.1	15514.1	15420.9	15222.5	14955.4	14786.5	14700.7	14409.1	14063.7
5°	17341.9	17229.1	17145.8	17050.3	16883.6	16572.6	16141.4	15798.3	15629.3	15046.2	14355.2
7.5°	16979.3	17025.8	17170.4	17422.6	17638.3	17596.7	17212.1	16775.8	16552.9	15742.0	14693.2
10°	14793.7	14874.6	15124.6	15714.9	16670.6	17650.5	17949.5	17648.1	17422.6	16430.4	15041.2
12.5°	14355.2	14352.7	14372.3	14529.1	15097.5	16477.0	17973.9	18277.9	18143.1	17087.0	15396.5
15°	14534.0	14538.9	14524.2	14590.5	14766.8	15313.1	17224.2	18520.4	18615.9	17748.5	15763.9
17.5°	15004.5	14992.3	14935.8	14935.8	14999.5	15212.6	16342.2	18294.9	18735.9	18334.1	16087.3
20°	15793.5	15737.0	15587.6	15450.4	15381.8	15496.9	15979.6	17775.5	18527.7	18846.3	16354.5
22.5°	16748.9	16704.8	16462.2	16168.2	15930.6	15928.1	16165.8	17322.2	18167.5	19328.9	16579.8
25°	17983.8	17912.7	17552.5	17082.1	16665.6	16506.4	16572.6	17300.2	17971.5	19853.3	16780.8
27.5°	19434.2	19304.3	18878.2	18199.4	17586.8	17266.0	17170.4	17699.6	18150.3	20502.5	17060.2
30°	21193.4	21044.0	20497.5	19613.1	18748.3	18221.4	18018.1	18407.7	18743.3	21293.9	17508.4
32.5°	23195.1	22979.5	22347.5	21372.3	20235.4	19431.7	19101.0	19343.7	19610.7	22247.0	18069.5
35°	25961.3	25704.0	24790.2	23445.0	22161.1	21056.2	20527.0	20703.3	20963.0	23668.1	18880.5
37.5°	27847.8	27732.7	27125.1	25860.9	24464.4	23192.7	22374.4	22477.3	22624.4	25444.3	19919.3
40°	27830.7	27877.3	27889.6	27901.8	26951.2	25733.4	24853.9	24746.1	24716.7	27394.6	21100.3
42.5°	26436.7	26627.7	27245.1	28497.2	29075.4	28516.8	27710.6	27399.6	27245.1	29692.8	22352.3
45°	24302.6	24405.5	25562.0	28007.1	30163.3	31273.1	30663.0	29683.1	29403.7	31804.9	23391.1
47.5°	23202.5	23315.1	24042.9	26708.5	30151.0	33500.3	33853.2	31986.0	31486.3	33642.5	24288.0
50°	20583.4	20818.6	21734.9	24449.6	29050.8	34524.5	37187.8	34730.2	33696.3	35430.9	25187.0
52.5°	15773.8	16136.4	17162.9	20735.2	26260.2	34017.2	39855.9	38057.6	36597.3	37283.3	25959.0
55°	9949.8	10219.4	11081.9	14644.3	21007.3	31378.5	40867.9	41656.7	40358.2	39037.6	26627.7
57.5°	5409.9	5529.8	5853.3	8085.4	13664.3	25544.8	39392.8	43705.0	43166.0	40527.3	27132.4
58°	4841.4	4922.3	5123.2	7007.3	12118.2	23949.8	38738.6	43712.3	43442.8	40745.2	27171.8
60°	3591.9	3550.2	3371.3	3998.5	6745.2	16545.5	34784.2	41963.0	42754.3	41012.3	26980.6
62.5°	3155.7	3055.2	2690.2	2648.6	3280.7	7622.3	26615.5	35945.5	37815.0	39488.4	25819.3
65°	2964.6	2856.8	2386.3	2234.5	2366.9	3224.3	15678.2	26958.6	29303.3	34867.4	22849.6
67.5°	2822.6	2682.9	2192.9	1984.5	1994.3	2131.6	6284.5	16979.3	19618.1	26473.4	17773.1
70°	2685.4	2533.4	2028.7	1788.5	1732.2	1685.7	2499.2	8499.5	10893.1	16721.9	11331.7
72.5°	2538.3	2388.9	1884.1	1634.2	1524.0	1369.6	1631.9	3476.7	4856.1	7911.5	5140.3
75°	2325.2	2190.3	1739.6	1497.0	1340.2	1134.4	1232.5	1815.6	2178.1	3150.9	2477.0
77.5°	2063.0	1952.7	1577.9	1384.3	1188.3	921.2	948.3	1259.3	1396.5	1803.3	1472.5
80°	1482.4	1521.5	1404.0	1244.6	1058.5	747.3	727.6	918.7	992.3	1159.0	958.0
82.5°	1041.2	1063.4	1161.4	1016.8	874.7	588.0	536.6	646.8	690.9	762.0	517.0
85°	717.8	693.4	796.3	708.0	632.1	392.0	367.5	438.6	465.5	472.9	267.1
87.5°	431.2	431.2	460.7	379.8	340.5	203.3	198.4	249.9	267.1	254.8	147.1
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°	13821.1	13821.1	13821.1	13821.1	13821.1	13821.1	13821.1	13821.1	13821.1	13821.1	13821.1
2.5°	13857.9	13683.8	13313.9	13017.3	12642.6	12253.1	12035.0	11802.1	11642.9	11527.8	11711.6
5°	13963.2	13607.9	12843.4	12118.2	11317.0	10483.9	9851.9	9263.9	8854.8	8599.8	8840.0
7.5°	14129.8	13583.5	12365.7	11126.0	9687.7	8301.0	7061.1	6284.5	5831.3	5608.3	5748.0
10°	14320.9	13544.1	11804.5	9780.8	7722.6	5975.9	5049.6	4736.0	4633.2	4591.4	4611.1
12.5°	14480.0	13460.9	11116.2	8153.9	5799.4	4718.8	4451.8	4444.5	4466.6	4471.5	4478.8
15°	14592.8	13338.4	10094.4	6458.5	4638.0	4299.9	4285.3	4329.3	4371.1	4388.1	4397.9
17.5°	14668.9	13086.0	8940.4	5106.1	4155.4	4096.6	4130.9	4187.2	4231.3	4243.7	4253.4
20°	14661.4	12716.0	7566.0	4258.2	3893.3	3893.3	3952.1	3996.1	3998.5	3983.9	3991.2
22.5°	14585.5	12208.9	6233.1	3807.5	3660.5	3702.2	3760.9	3719.3	3547.8	3435.1	3442.5
25°	14458.1	11603.6	5091.4	3520.7	3444.8	3518.3	3501.2	3187.5	2942.6	2832.4	2832.4
27.5°	14345.4	10888.3	4214.2	3270.9	3229.2	3319.9	3016.1	2731.8	2629.0	2577.4	2560.3
30°	14264.5	10116.5	3628.7	3030.8	3025.9	2959.7	2616.8	2538.3	2521.2	2479.5	2464.8
32.5°	14284.0	9334.8	3253.8	2820.0	2837.2	2533.4	2425.7	2442.8	2428.1	2383.9	2364.3
35°	14445.9	8592.5	3008.8	2629.0	2577.4	2288.4	2312.9	2344.8	2339.8	2278.6	2259.0
37.5°	14735.0	7889.4	2847.0	2469.7	2249.1	2166.0	2205.1	2254.0	2241.8	2200.2	2185.4
40°	15038.7	7227.9	2714.7	2344.8	2055.6	2082.6	2116.9	2143.8	2156.1	2168.4	2158.5
42.5°	15335.2	6536.8	2553.1	2217.3	1974.7	2004.2	2018.9	2045.8	2111.9	2158.5	2156.1
45°	15511.7	5887.6	2386.3	2036.1	1911.1	1928.2	1918.4	1972.3	2053.2	2129.2	2131.6
47.5°	15707.7	5382.9	2254.0	1869.5	1849.8	1862.0	1832.7	1886.6	1960.1	2053.2	2063.0
50°	15945.3	5081.5	2148.7	1737.1	1766.5	1766.5	1759.2	1808.2	1911.1	2018.9	2038.6
52.5°	16214.8	5022.8	2060.5	1641.6	1683.2	1680.8	1688.2	1761.7	1874.4	1979.7	1996.8
55°	16543.1	5182.0	1965.0	1570.5	1602.3	1612.2	1636.7	1720.0	1815.6	1935.6	1942.9
57.5°	16925.3	5505.4	1889.0	1514.2	1528.8	1560.7	1599.9	1675.9	1778.7	1911.1	1918.4
58°	16989.0	5574.1	1876.7	1509.2	1514.2	1551.0	1595.0	1668.5	1771.4	1915.9	1923.4
60°	16991.5	5801.9	1849.8	1487.2	1457.8	1519.0	1568.1	1641.6	1759.2	1933.2	1950.3
62.5°	16388.8	5799.4	1830.2	1455.3	1399.0	1474.9	1531.3	1617.0	1746.9	1974.7	2009.1
65°	14431.1	5270.1	1737.1	1406.3	1352.5	1435.9	1499.5	1599.9	1781.2	2156.1	2178.1
67.5°	11287.7	4319.5	1563.2	1337.8	1291.3	1396.5	1479.9	1597.5	1818.0	2197.8	2212.4
70°	7462.9	3231.7	1372.0	1259.3	1227.5	1350.1	1489.7	1680.8	1776.3	2109.5	2070.4
72.5°	3873.6	2268.8	1217.7	1161.4	1154.1	1308.3	1631.9	1670.9	1734.6	1984.5	1935.6
75°	2033.7	1575.4	1082.9	1053.5	1065.7	1298.6	1925.7	1626.9	1680.8	1898.8	1991.9
77.5°	1244.6	1271.6	967.8	955.5	980.1	1269.1	1923.4	1570.5	1602.3	1746.9	1849.8
80°	833.1	1031.6	879.6	882.0	899.3	1161.4	1727.4	1482.4	1506.7	1651.4	1756.7
82.5°	526.8	610.0	798.8	840.4	818.4	958.0	1467.7	1350.1	1384.3	1889.0	1996.8
85°	267.1	382.1	693.4	808.6	737.5	671.4	1190.8	1183.3	1200.6	1362.3	1423.5
87.5°	122.4	210.7	541.5	705.6	556.2	419.0	864.9	877.1	945.7	967.8	967.8
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)