

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: P268898

Luminaire Tested: **GAN-AF-10-LED-U-AFL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268898
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-10-LED-U-AFL-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 57607.1 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 640
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

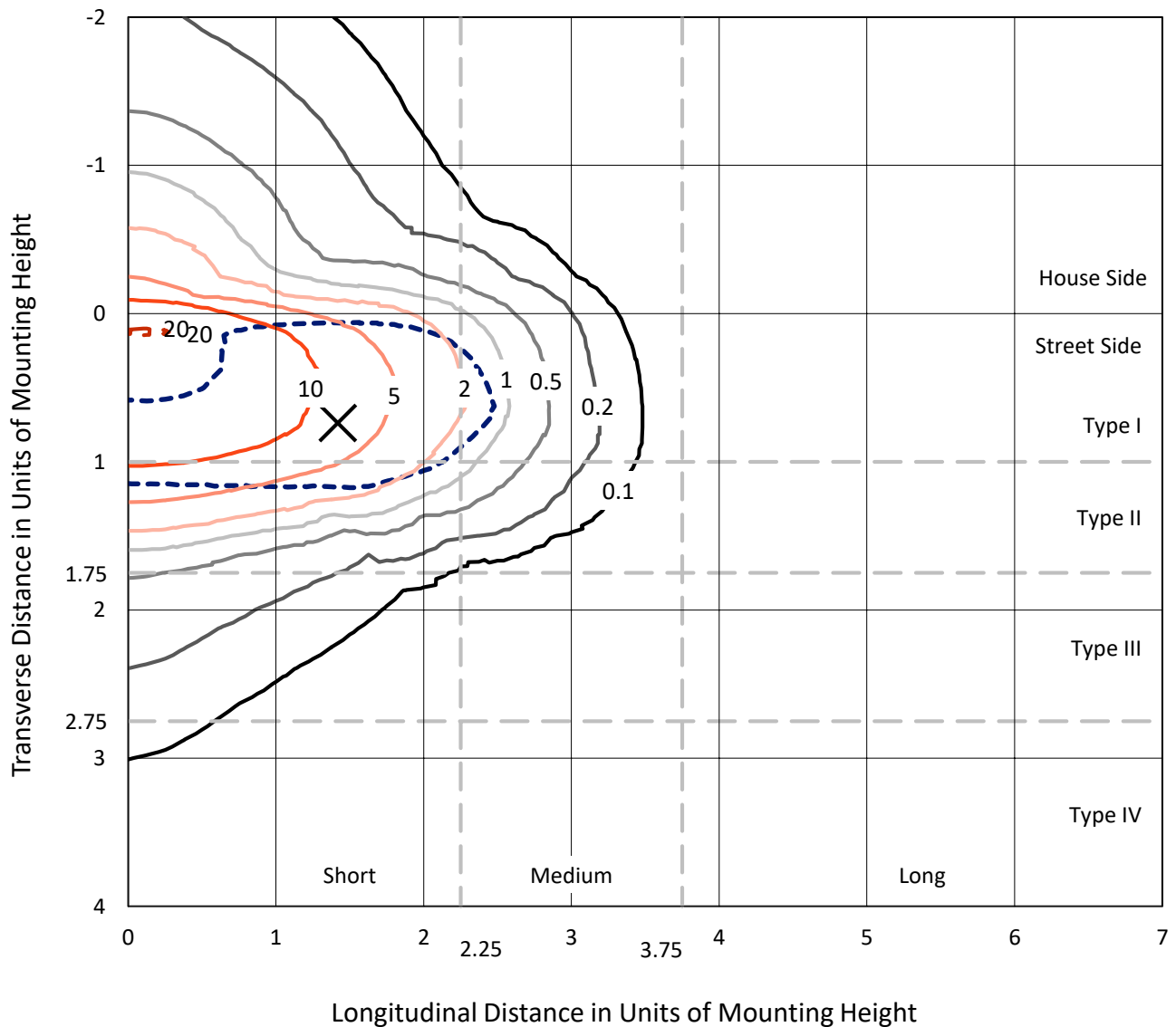


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

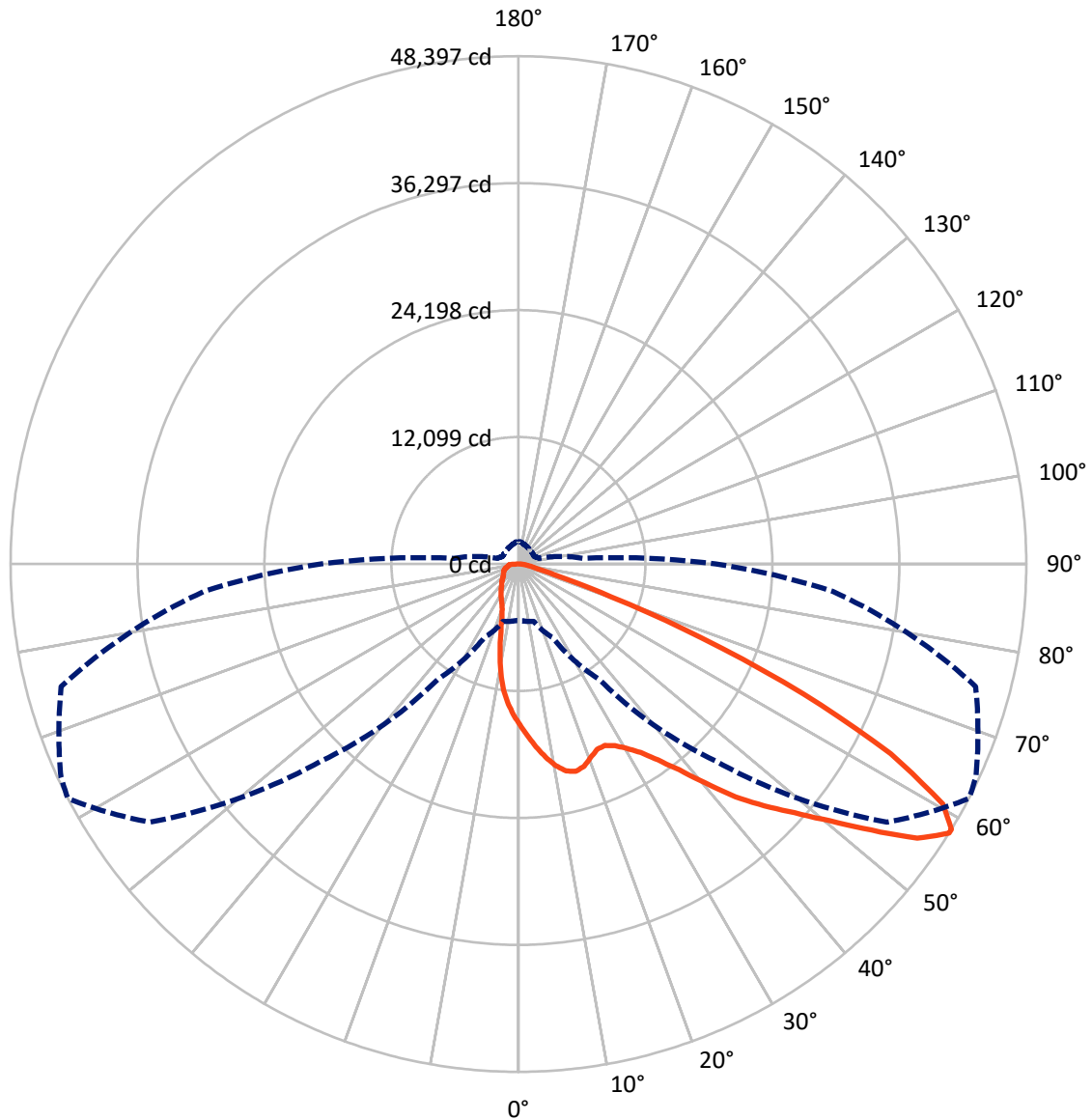


Based on 30 foot mounting height. Maximum calculated value = 20.7 fc
 Type II - Short - Full Cutoff

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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	8785.3	0.0	8785.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	48821.8	0.0	48821.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	57607.1	0.0	57607.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1368.6	2.4
10°-20°	3498.2	6.1
20°-30°	5655.0	9.8
30°-40°	8977.3	15.6
40°-50°	13135.6	22.8
50°-60°	13738.8	23.8
60°-70°	8116.9	14.1
70°-80°	2286.6	4.0
80°-90°	830.1	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°	57607.1	100.0
0°-180°	57607.1	100.0

Coefficient of Utilization



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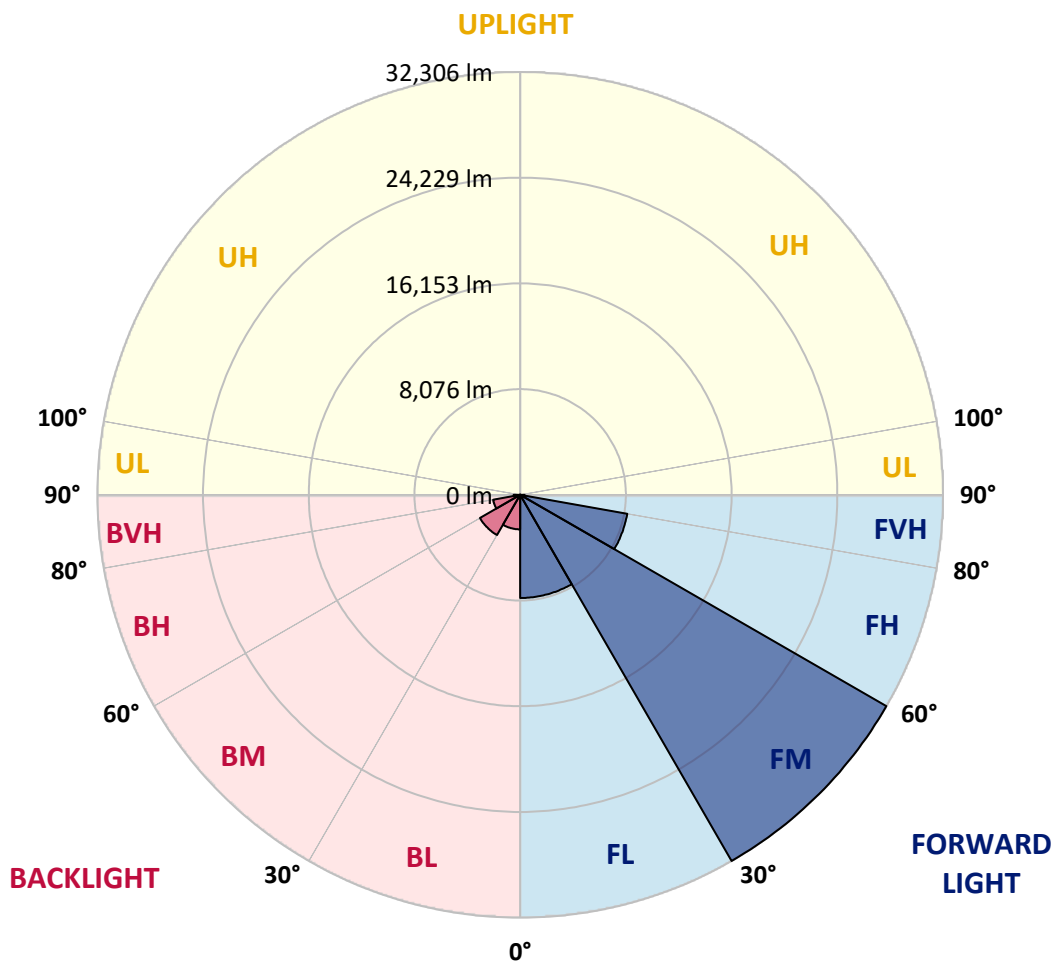
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7881.4	13.7			
FM	(30°-60°)	32305.7	56.1			
FH	(60°-80°)	8307.2	14.4			G4/12000
FVH	(80°-90°)	327.5	0.6			G3/500
BL	(0°-30°)	2640.4	4.6	B4/5000		
BM	(30°-60°)	3546.0	6.2	B3/5000		
BH	(60°-80°)	2096.3	3.6	B3/2500		G3/2500
BVH	(80°-90°)	502.7	0.9			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-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°	15302.2	15302.2	15302.2	15302.2	15302.2	15302.2	15302.2	15302.2	15302.2	15302.2	15302.2
2.5°	17485.9	17344.7	17255.3	17176.6	17073.5	16853.8	16558.1	16370.9	16276.0	15953.2	15570.7
5°	19200.3	19075.5	18983.3	18877.4	18693.0	18348.5	17871.1	17491.3	17304.1	16658.4	15893.5
7.5°	18798.8	18850.4	19010.3	19289.8	19528.4	19482.4	19056.5	18573.6	18326.9	17428.8	16267.9
10°	16379.1	16468.5	16745.2	17399.0	18456.9	19542.1	19872.9	19539.4	19289.8	18191.1	16653.0
12.5°	15893.5	15890.7	15912.4	16086.0	16715.4	18242.7	19900.2	20236.5	20087.3	18918.1	17046.3
15°	16091.5	16097.0	16080.6	16154.0	16349.2	16954.2	19070.1	20505.0	20610.8	19650.6	17453.3
17.5°	16612.4	16598.8	16536.4	16536.4	16607.0	16843.0	18093.5	20255.5	20743.8	20298.9	17811.4
20°	17485.9	17423.4	17258.0	17106.1	17030.1	17157.5	17691.9	19680.3	20513.2	20865.8	18107.0
22.5°	18543.8	18494.9	18226.4	17900.9	17637.7	17635.0	17898.2	19178.5	20114.4	21400.2	18356.7
25°	19910.9	19832.3	19433.6	18912.6	18451.5	18275.2	18348.5	19154.1	19897.4	21980.7	18579.0
27.5°	21516.8	21373.2	20901.0	20149.7	19471.5	19116.1	19010.3	19596.3	20095.4	22699.6	18888.3
30°	23464.5	23299.1	22694.2	21714.9	20757.3	20174.0	19948.9	20380.2	20751.8	23575.7	19384.7
32.5°	25680.7	25442.1	24742.2	23662.6	22403.9	21514.1	21148.0	21416.5	21712.2	24630.9	20006.0
35°	28743.3	28458.6	27446.8	25957.6	24536.0	23312.6	22726.7	22922.1	23209.6	26204.4	20903.7
37.5°	30832.2	30704.6	30032.0	28632.1	27086.0	25678.1	24772.1	24885.9	25048.8	28171.0	22054.0
40°	30813.1	30864.8	30878.2	30891.9	29839.3	28491.2	27517.3	27397.9	27365.3	30330.4	23361.5
42.5°	29269.7	29481.3	30164.8	31551.0	32191.2	31572.6	30680.3	30335.8	30164.8	32874.8	24747.6
45°	26906.9	27020.8	28301.2	31008.5	33395.6	34624.5	33949.0	32864.0	32554.7	35213.1	25897.9
47.5°	25688.9	25813.8	26619.4	29570.8	33382.1	37090.3	37480.9	35413.8	34860.4	37247.6	26890.7
50°	22789.1	23049.5	24064.1	27069.6	32164.1	38224.1	41172.8	38451.9	37307.2	39227.8	27886.3
52.5°	17464.2	17865.6	19002.2	22957.3	29074.4	37662.7	44126.9	42135.8	40519.0	41278.6	28740.7
55°	11016.2	11314.5	12269.4	16213.6	23258.3	34741.1	45247.3	46120.7	44683.0	43221.0	29481.3
57.5°	5989.5	6122.5	6480.6	8951.8	15128.5	28282.2	43614.1	48388.6	47791.7	44870.2	30040.1
58°	5360.2	5449.7	5672.2	7758.2	13416.8	26516.3	42889.9	48396.6	48098.3	45111.7	30083.5
60°	3976.7	3930.7	3732.6	4427.0	7468.0	18318.6	38511.6	46459.8	47335.9	45407.3	29871.9
62.5°	3493.9	3382.7	2978.5	2932.3	3632.2	8439.0	29467.7	39797.5	41867.2	43720.0	28586.0
65°	3282.3	3162.9	2642.2	2473.9	2620.4	3569.9	17358.4	29847.4	32443.5	38603.9	25298.2
67.5°	3125.1	2970.3	2427.8	2197.3	2208.2	2359.9	6958.0	18798.8	21720.3	29310.3	19677.7
70°	2973.1	2804.9	2246.1	1980.3	1917.8	1866.3	2766.9	9410.3	12060.6	18514.0	12546.1
72.5°	2810.3	2644.9	2086.0	1809.4	1687.2	1516.3	1806.6	3849.2	5376.4	8759.3	5691.2
75°	2574.4	2425.2	1926.0	1657.5	1483.8	1256.0	1364.4	2010.0	2411.6	3488.5	2742.5
77.5°	2284.1	2162.0	1746.9	1532.7	1315.7	1019.9	1049.8	1394.3	1546.3	1996.6	1630.3
80°	1641.2	1684.5	1554.3	1378.0	1171.8	827.3	805.7	1017.2	1098.6	1283.0	1060.7
82.5°	1152.9	1177.3	1285.8	1125.8	968.5	651.0	594.0	716.2	764.9	843.7	572.4
85°	794.8	767.7	881.6	784.0	699.9	434.1	406.9	485.5	515.4	523.5	295.7
87.5°	477.4	477.4	510.0	420.4	377.1	225.1	219.7	276.7	295.7	282.1	162.8
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°	15302.2	15302.2	15302.2	15302.2	15302.2	15302.2	15302.2	15302.2	15302.2	15302.2	15302.2
2.5°	15342.8	15150.3	14740.6	14412.3	13997.4	13566.1	13324.6	13066.9	12890.6	12763.1	12966.6
5°	15459.6	15066.2	14219.8	13416.8	12529.7	11607.4	10907.6	10256.6	9803.6	9521.5	9787.4
7.5°	15644.0	15039.1	13690.8	12318.2	10725.9	9190.5	7817.9	6958.0	6456.2	6209.3	6364.0
10°	15855.5	14995.6	13069.6	10829.0	8550.2	6616.1	5590.8	5243.5	5129.6	5083.6	5105.2
12.5°	16031.8	14903.4	12307.4	9027.7	6420.8	5224.6	4928.9	4920.7	4945.2	4950.6	4958.7
15°	16156.6	14767.7	11176.3	7150.6	5135.2	4760.7	4744.5	4793.3	4839.3	4858.5	4869.3
17.5°	16240.7	14488.4	9898.6	5653.3	4600.7	4535.6	4573.5	4636.0	4684.8	4698.3	4709.2
20°	16232.6	14078.7	8376.8	4714.7	4310.4	4310.4	4375.6	4424.3	4427.0	4410.8	4418.9
22.5°	16148.6	13517.2	6901.0	4215.4	4052.8	4098.8	4164.0	4117.8	3928.0	3803.2	3811.2
25°	16007.4	12847.2	5637.0	3898.0	3814.1	3895.4	3876.4	3529.3	3258.0	3135.9	3135.9
27.5°	15882.7	12055.1	4665.7	3621.3	3575.3	3675.7	3339.3	3024.7	2910.7	2853.7	2834.7
30°	15793.1	11200.5	4017.5	3355.6	3350.1	3276.8	2897.2	2810.3	2791.4	2745.2	2729.0
32.5°	15814.8	10335.3	3602.5	3122.2	3141.3	2804.9	2685.6	2704.5	2688.3	2639.4	2617.8
35°	15993.9	9513.3	3331.2	2910.7	2853.7	2533.6	2560.8	2596.0	2590.6	2522.8	2501.2
37.5°	16313.9	8734.8	3152.2	2734.4	2490.2	2397.9	2441.5	2495.6	2482.0	2435.9	2419.8
40°	16650.4	8002.5	3005.5	2596.0	2275.9	2305.8	2343.8	2373.6	2387.2	2400.7	2389.9
42.5°	16978.5	7237.4	2826.5	2455.0	2186.5	2219.0	2235.3	2265.0	2338.3	2389.9	2387.2
45°	17173.8	6518.6	2642.2	2254.2	2115.9	2134.8	2124.0	2183.7	2273.3	2357.3	2359.9
47.5°	17390.8	5959.7	2495.6	2069.8	2048.0	2061.6	2029.1	2088.7	2170.1	2273.3	2284.1
50°	17654.0	5626.1	2379.0	1923.4	1955.8	1955.8	1947.6	2002.0	2115.9	2235.3	2256.9
52.5°	17952.4	5561.0	2281.3	1817.5	1863.7	1860.8	1869.1	1950.4	2075.2	2191.9	2210.8
55°	18315.9	5737.2	2175.5	1738.8	1774.2	1784.9	1812.2	1904.2	2010.0	2142.9	2151.1
57.5°	18739.2	6095.4	2091.4	1676.4	1692.6	1728.0	1771.4	1855.4	1969.4	2115.9	2124.0
58°	18809.6	6171.4	2077.9	1670.9	1676.4	1717.1	1766.0	1847.4	1961.3	2121.3	2129.4
60°	18812.3	6423.6	2048.0	1646.7	1614.1	1681.8	1736.2	1817.5	1947.6	2140.3	2159.3
62.5°	18145.0	6420.8	2026.3	1611.3	1548.9	1632.9	1695.5	1790.3	1934.1	2186.5	2224.5
65°	15977.7	5834.9	1923.4	1557.0	1497.4	1589.6	1660.2	1771.4	1972.0	2387.2	2411.6
67.5°	12497.2	4782.4	1730.7	1481.1	1429.6	1546.3	1638.5	1768.7	2012.8	2433.2	2449.6
70°	8262.8	3577.9	1519.2	1394.3	1359.0	1494.7	1649.3	1860.8	1966.7	2335.7	2292.3
72.5°	4288.7	2511.9	1348.1	1285.8	1277.7	1448.5	1806.6	1850.0	1920.5	2197.3	2142.9
75°	2251.5	1744.2	1199.0	1166.4	1180.1	1437.6	2132.1	1801.2	1860.8	2102.4	2205.3
77.5°	1378.0	1407.9	1071.5	1057.9	1085.1	1405.2	2129.4	1738.8	1774.2	1934.1	2048.0
80°	922.3	1142.0	973.9	976.5	995.5	1285.8	1912.4	1641.2	1668.3	1828.3	1945.0
82.5°	583.2	675.4	884.3	930.5	906.0	1060.7	1624.9	1494.7	1532.7	2091.4	2210.8
85°	295.7	423.2	767.7	895.3	816.5	743.3	1318.4	1310.2	1329.2	1508.3	1576.0
87.5°	135.6	233.3	599.4	781.3	615.8	463.9	957.6	971.2	1047.1	1071.5	1071.5
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)