

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: P300350

Luminaire Tested: **GAA-AF-10-LED-U-AFL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300350
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: GAA-AF-10-LED-U-AFL-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58266.6 lumens
Efficiency: N/A
Efficacy: 104.4 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

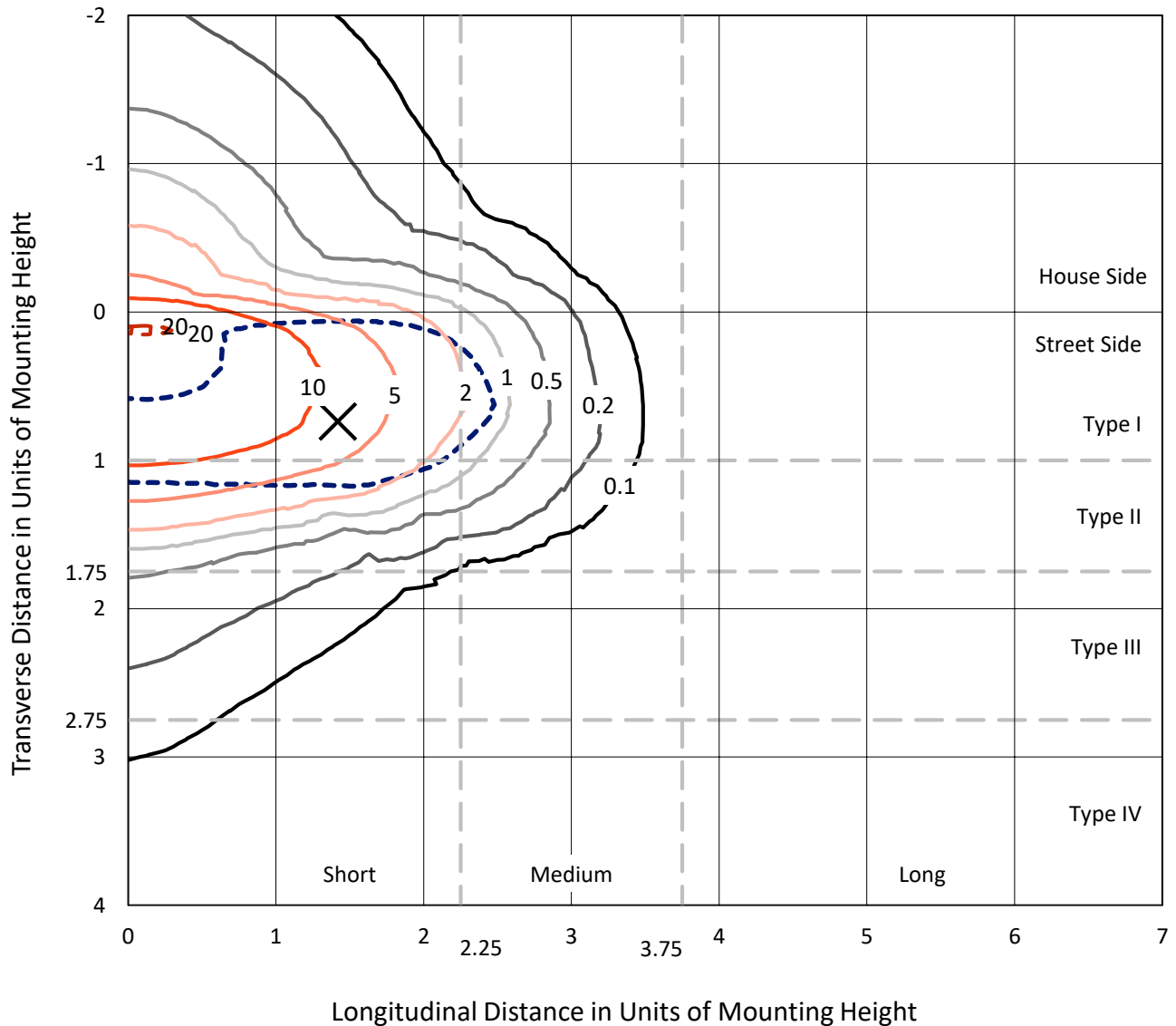
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

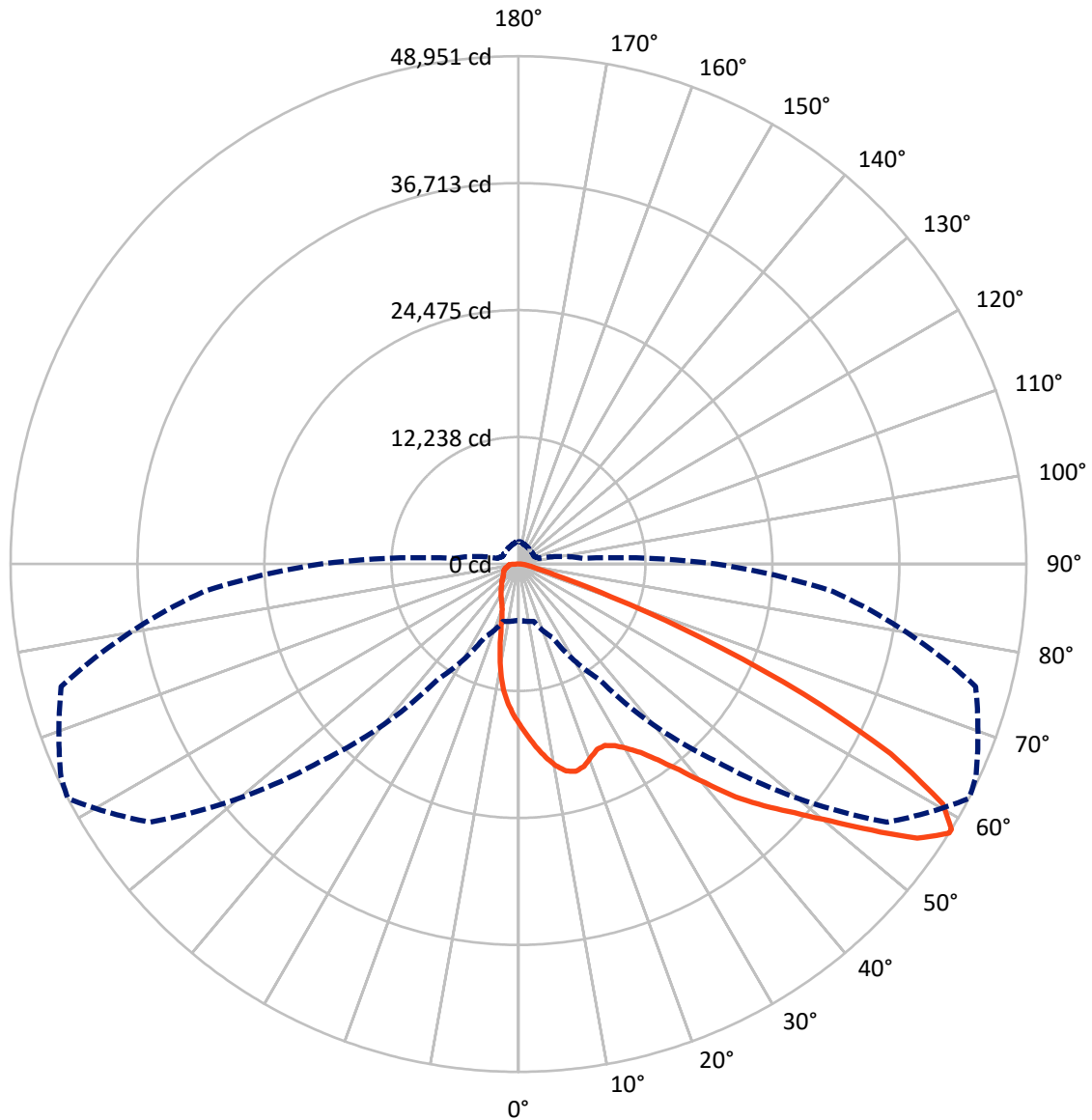
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 21 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	8885.9	0.0	8885.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	49380.7	0.0	49380.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	58266.6	0.0	58266.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1384.2	2.4
10°-20°	3538.3	6.1
20°-30°	5719.7	9.8
30°-40°	9080.1	15.6
40°-50°	13286.0	22.8
50°-60°	13896.1	23.8
60°-70°	8209.8	14.1
70°-80°	2312.7	4.0
80°-90°	839.7	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°	58266.6	100.0
0°-180°	58266.6	100.0



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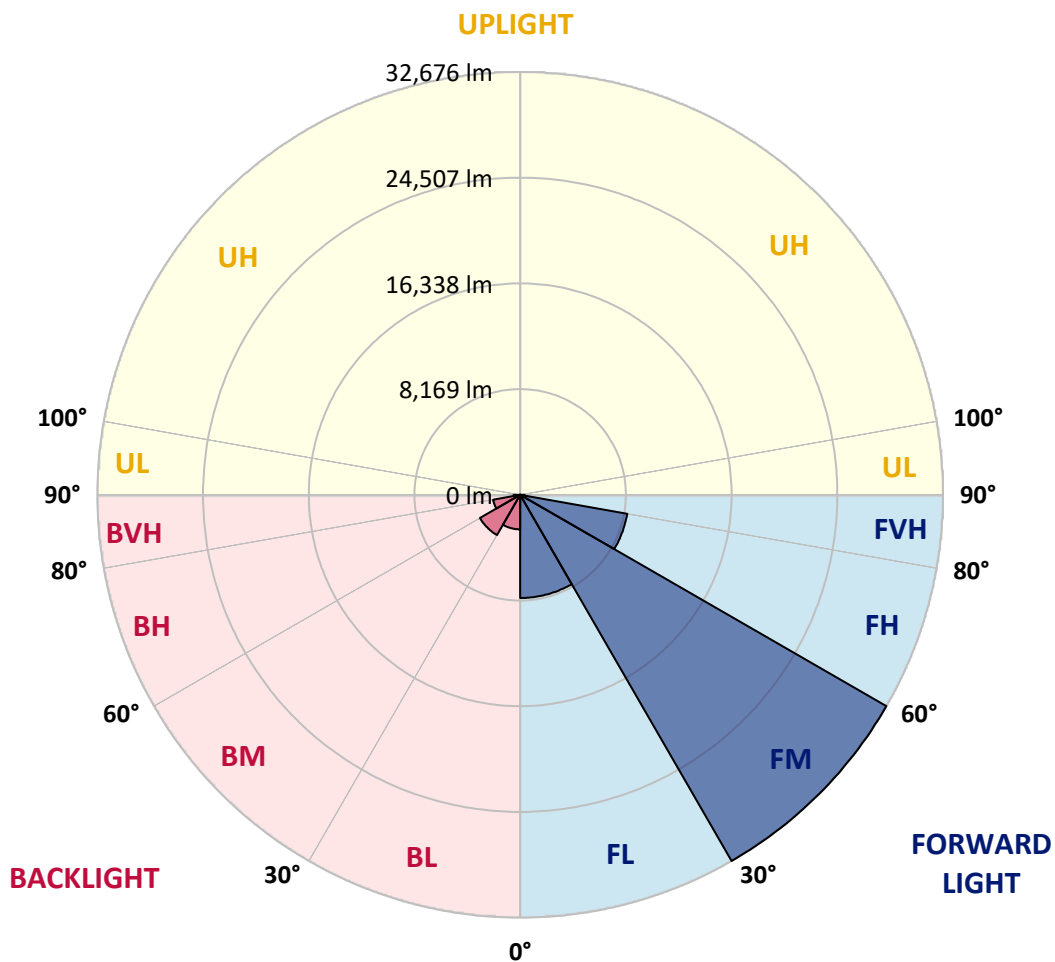
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7971.6	13.7			
FM (30°-60°)	32675.6	56.1			
FH (60°-80°)	8402.3	14.4			G4/12000
FVH (80°-90°)	331.2	0.6			G3/500
BL (0°-30°)	2670.7	4.6	B4/5000		
BM (30°-60°)	3586.6	6.2	B3/5000		
BH (60°-80°)	2120.3	3.6	B3/2500		G3/2500
BVH (80°-90°)	508.4	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°	15477.3	15477.3	15477.3	15477.3	15477.3	15477.3	15477.3	15477.3	15477.3	15477.3	15477.3
2.5°	17686.0	17543.4	17452.8	17373.2	17269.0	17046.7	16747.7	16558.4	16462.3	16135.8	15749.0
5°	19420.1	19293.9	19200.6	19093.6	18907.0	18558.5	18075.6	17691.5	17502.2	16849.2	16075.5
7.5°	19014.0	19066.1	19228.0	19510.6	19752.1	19705.4	19274.6	18786.3	18536.6	17628.4	16454.1
10°	16566.6	16657.1	16937.0	17598.2	18668.3	19765.8	20100.5	19763.0	19510.6	18399.4	16843.7
12.5°	16075.5	16072.7	16094.7	16270.3	16906.8	18451.5	20127.9	20468.2	20317.3	19134.7	17241.5
15°	16275.8	16281.2	16264.8	16338.9	16536.4	17148.3	19288.4	20739.8	20846.8	19875.5	17653.1
17.5°	16802.6	16788.8	16725.7	16725.7	16797.1	17035.8	18300.6	20487.4	20981.2	20531.3	18015.3
20°	17686.0	17622.9	17455.6	17301.9	17225.1	17354.0	17894.6	19905.7	20748.0	21104.7	18314.3
22.5°	18756.1	18706.7	18435.1	18105.8	17839.7	17836.9	18103.1	19398.1	20344.7	21645.2	18566.8
25°	20138.9	20059.4	19656.0	19129.2	18662.8	18484.5	18558.5	19373.4	20125.2	22232.4	18791.8
27.5°	21763.2	21617.8	21140.4	20380.4	19694.4	19335.0	19228.0	19820.6	20325.5	22959.5	19104.5
30°	23733.2	23565.8	22954.0	21963.5	20995.0	20405.1	20177.3	20613.6	20989.5	23845.7	19606.6
32.5°	25974.8	25733.4	25025.5	23933.5	22660.4	21760.5	21390.1	21661.7	21960.8	24913.0	20235.0
35°	29072.5	28784.4	27761.0	26254.7	24817.0	23579.5	22986.9	23184.5	23475.3	26504.4	21143.1
37.5°	31185.1	31056.2	30375.7	28960.0	27396.1	25972.1	25055.7	25170.9	25335.5	28493.6	22306.5
40°	31165.9	31218.1	31231.8	31245.5	30180.9	28817.3	27832.3	27711.6	27678.7	30677.6	23628.9
42.5°	29604.8	29818.8	30510.2	31912.2	32559.7	31934.2	31031.5	30683.0	30510.2	33251.2	25031.0
45°	27215.0	27330.2	28625.3	31363.5	33778.0	35020.9	34337.7	33240.2	32927.4	35616.3	26194.3
47.5°	25983.0	26109.3	26924.1	29909.3	33764.2	37514.9	37910.0	35819.3	35259.6	37674.0	27198.5
50°	23050.0	23313.4	24339.6	27379.6	32532.3	38661.8	41644.2	38892.3	37734.4	39677.0	28205.5
52.5°	17664.1	18070.2	19219.8	23220.1	29407.2	38093.8	44632.1	42618.2	40983.0	41751.2	29069.7
55°	11142.3	11444.1	12409.9	16399.2	23524.7	35138.8	45765.3	46648.8	45194.6	43715.7	29818.8
57.5°	6058.1	6192.6	6554.8	9054.3	15301.7	28606.0	44113.6	48942.5	48338.9	45383.9	30384.0
58°	5421.6	5512.1	5737.1	7847.0	13570.4	26819.9	43381.0	48950.7	48648.9	45628.1	30427.9
60°	4022.3	3975.7	3775.4	4477.8	7553.5	18528.4	38952.6	46991.7	47878.0	45927.2	30213.9
62.5°	3533.9	3421.4	3012.6	2966.0	3673.8	8535.7	29805.1	40253.1	42346.6	44220.6	28913.3
65°	3319.9	3199.2	2672.4	2502.3	2650.4	3610.7	17557.1	30189.2	32814.9	39045.9	25588.0
67.5°	3160.8	3004.4	2455.6	2222.4	2233.4	2387.0	7037.6	19014.0	21969.0	29645.9	19903.0
70°	3007.1	2837.0	2271.8	2002.9	1939.8	1887.7	2798.6	9518.0	12198.6	18725.9	12689.7
72.5°	2842.5	2675.1	2109.9	1830.1	1706.6	1533.7	1827.3	3893.3	5438.1	8859.5	5756.3
75°	2603.8	2452.9	1948.0	1676.4	1500.8	1270.3	1380.1	2033.1	2439.2	3528.4	2773.9
77.5°	2310.2	2186.7	1767.0	1550.2	1330.7	1031.6	1061.8	1410.3	1563.9	2019.4	1649.0
80°	1660.0	1703.9	1572.2	1393.8	1185.3	836.8	814.9	1028.9	1111.2	1297.8	1072.8
82.5°	1166.1	1190.8	1300.5	1138.6	979.5	658.5	600.9	724.3	773.7	853.3	578.9
85°	803.9	776.5	891.7	792.9	707.9	439.0	411.6	491.1	521.3	529.5	299.1
87.5°	482.9	482.9	515.8	425.3	381.4	227.7	222.2	279.9	299.1	285.3	164.6
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°	15477.3	15477.3	15477.3	15477.3	15477.3	15477.3	15477.3	15477.3	15477.3	15477.3	15477.3
2.5°	15518.5	15323.7	14909.4	14577.4	14157.6	13721.4	13477.2	13216.5	13038.2	12909.2	13115.0
5°	15636.5	15238.6	14382.6	13570.4	12673.3	11740.4	11032.5	10374.0	9915.8	9630.5	9899.3
7.5°	15823.0	15211.2	13847.6	12459.2	10848.7	9295.7	7907.4	7037.6	6530.1	6280.4	6436.8
10°	16037.1	15167.3	13219.3	10952.9	8648.2	6691.9	5654.8	5303.6	5188.4	5141.7	5163.7
12.5°	16215.4	15074.0	12448.3	9131.1	6494.4	5284.4	4985.3	4977.1	5001.8	5007.3	5015.5
15°	16341.6	14936.8	11304.1	7232.5	5193.9	4815.2	4798.8	4848.2	4894.8	4914.0	4925.0
17.5°	16426.7	14654.2	10011.8	5717.9	4653.4	4587.5	4625.9	4689.0	4738.4	4752.1	4763.1
20°	16418.4	14239.9	8472.6	4768.6	4359.8	4359.8	4425.6	4475.0	4477.8	4461.3	4469.5
22.5°	16333.4	13672.0	6980.0	4263.7	4099.1	4145.8	4211.6	4165.0	3972.9	3846.7	3854.9
25°	16190.7	12994.3	5701.5	3942.7	3857.7	3940.0	3920.8	3569.6	3295.2	3171.7	3171.7
27.5°	16064.5	12193.1	4719.2	3662.9	3616.2	3717.7	3377.5	3059.3	2944.0	2886.4	2867.2
30°	15973.9	11328.8	4063.5	3394.0	3388.5	3314.4	2930.3	2842.5	2823.3	2776.6	2760.2
32.5°	15995.9	10453.6	3643.7	3158.0	3177.2	2837.0	2716.3	2735.5	2719.0	2669.6	2647.7
35°	16177.0	9622.2	3369.3	2944.0	2886.4	2562.6	2590.1	2625.7	2620.3	2551.7	2529.7
37.5°	16500.7	8834.8	3188.2	2765.7	2518.7	2425.5	2469.3	2524.2	2510.5	2463.9	2447.4
40°	16841.0	8094.0	3040.0	2625.7	2302.0	2332.2	2370.6	2400.8	2414.5	2428.2	2417.2
42.5°	17173.0	7320.3	2859.0	2483.1	2211.4	2244.4	2260.8	2291.0	2365.1	2417.2	2414.5
45°	17370.5	6593.2	2672.4	2280.0	2140.1	2159.3	2148.3	2208.7	2299.2	2384.3	2387.0
47.5°	17590.0	6028.0	2524.2	2093.5	2071.5	2085.2	2052.3	2112.7	2195.0	2299.2	2310.2
50°	17856.1	5690.5	2406.2	1945.3	1978.2	1978.2	1970.0	2024.9	2140.1	2260.8	2282.8
52.5°	18158.0	5624.6	2307.5	1838.3	1884.9	1882.2	1890.4	1972.7	2098.9	2216.9	2236.1
55°	18525.6	5803.0	2200.5	1758.7	1794.4	1805.4	1832.8	1926.1	2033.1	2167.5	2175.8
57.5°	18953.6	6165.1	2115.4	1695.6	1712.1	1747.8	1791.7	1876.7	1991.9	2140.1	2148.3
58°	19025.0	6242.0	2101.7	1690.1	1695.6	1736.8	1786.2	1868.5	1983.7	2145.6	2153.8
60°	19027.7	6497.1	2071.5	1665.4	1632.5	1701.1	1756.0	1838.3	1970.0	2164.8	2184.0
62.5°	18352.8	6494.4	2049.6	1629.8	1566.7	1651.7	1714.8	1810.9	1956.3	2211.4	2249.9
65°	16160.5	5901.7	1945.3	1574.9	1514.5	1607.8	1679.2	1791.7	1994.7	2414.5	2439.2
67.5°	12640.3	4837.2	1750.5	1498.1	1445.9	1563.9	1657.2	1788.9	2035.8	2461.1	2477.6
70°	8357.4	3619.0	1536.5	1410.3	1374.6	1511.8	1668.2	1882.2	1989.2	2362.3	2318.4
72.5°	4337.8	2540.7	1363.6	1300.5	1292.3	1465.1	1827.3	1871.2	1942.6	2222.4	2167.5
75°	2277.3	1764.2	1212.7	1179.8	1193.5	1454.2	2156.6	1821.8	1882.2	2126.4	2230.6
77.5°	1393.8	1424.0	1083.8	1070.1	1097.5	1421.2	2153.8	1758.7	1794.4	1956.3	2071.5
80°	932.9	1155.1	985.0	987.7	1006.9	1300.5	1934.3	1660.0	1687.4	1849.3	1967.2
82.5°	589.9	683.2	894.5	941.1	916.4	1072.8	1643.5	1511.8	1550.2	2115.4	2236.1
85°	299.1	428.0	776.5	905.4	825.9	751.8	1333.4	1325.2	1344.4	1525.5	1594.1
87.5°	137.2	236.0	606.4	790.2	622.8	469.2	968.5	982.3	1059.1	1083.8	1083.8
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)