

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: P299030

Luminaire Tested: **GAA-AF-10-LED-U-T2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36714.8 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

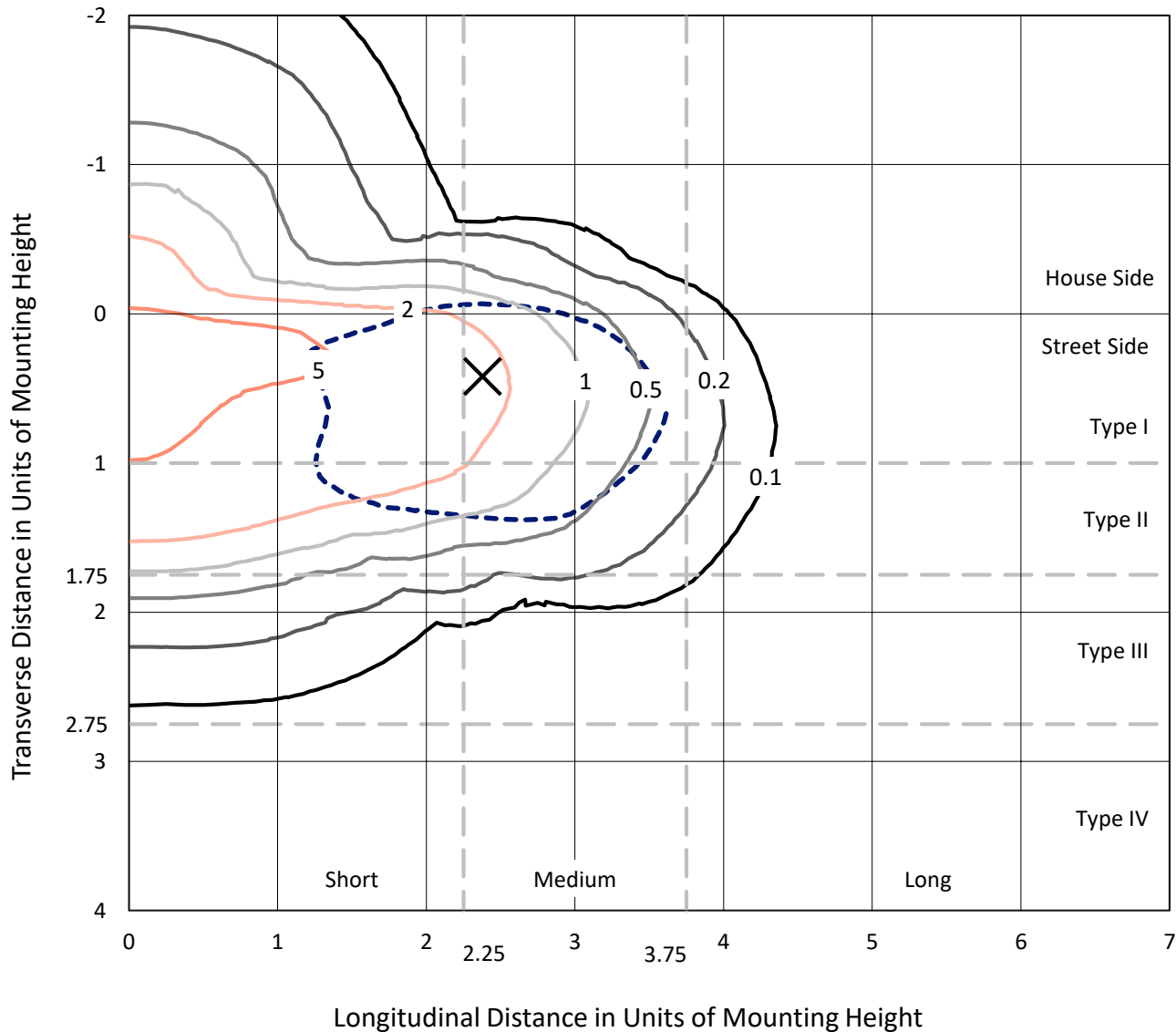
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

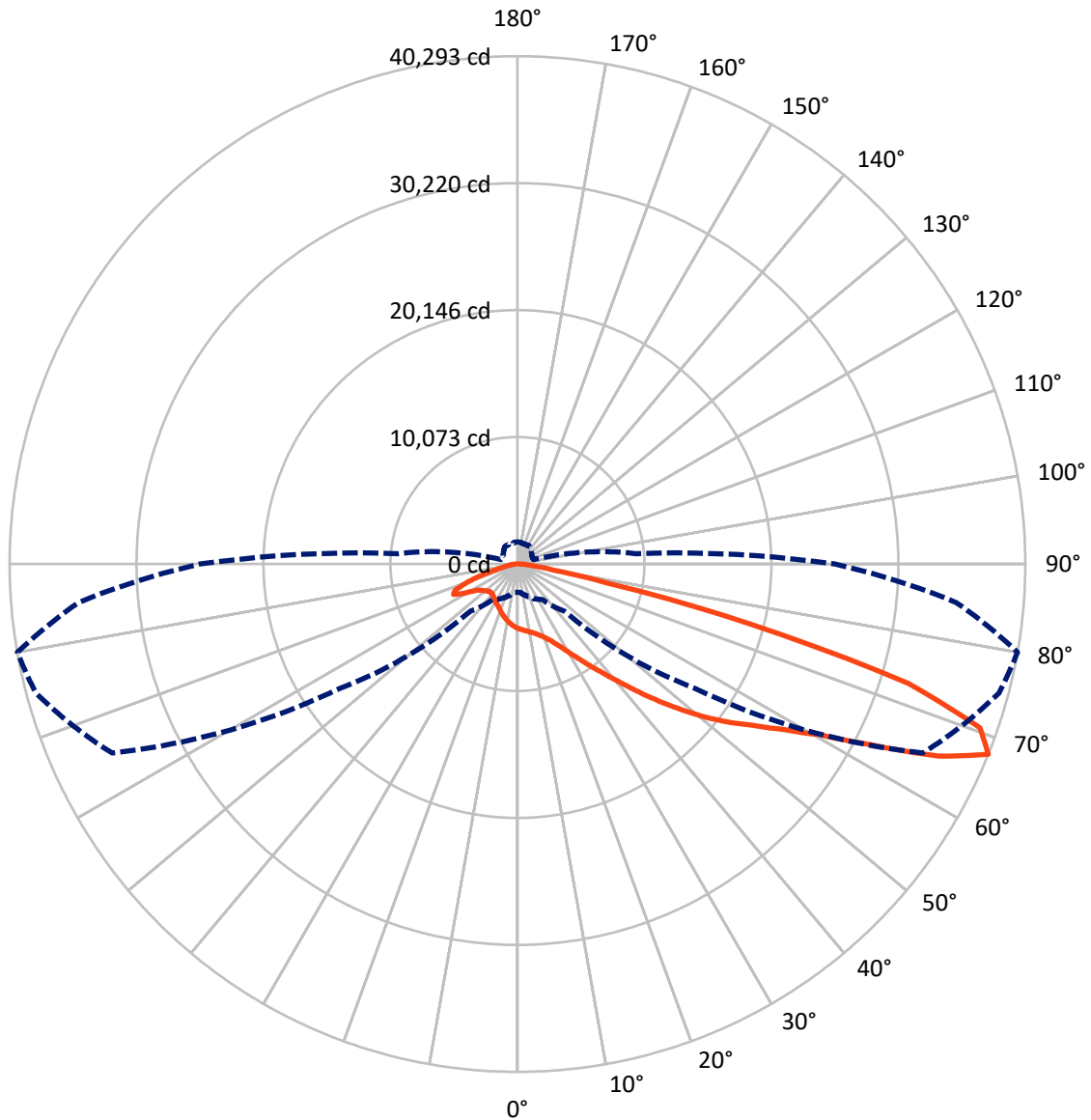
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6761.5	0.0	6761.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	29953.4	0.0	29953.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	36714.8	0.0	36714.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.5	1.3
10°-20°	1355.4	3.7
20°-30°	2243.5	6.1
30°-40°	3669.9	10.0
40°-50°	5925.4	16.1
50°-60°	8554.5	23.3
60°-70°	9440.4	25.7
70°-80°	4351.4	11.9
80°-90°	703.8	1.9
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°	36714.8	100.0
0°-180°	36714.8	100.0



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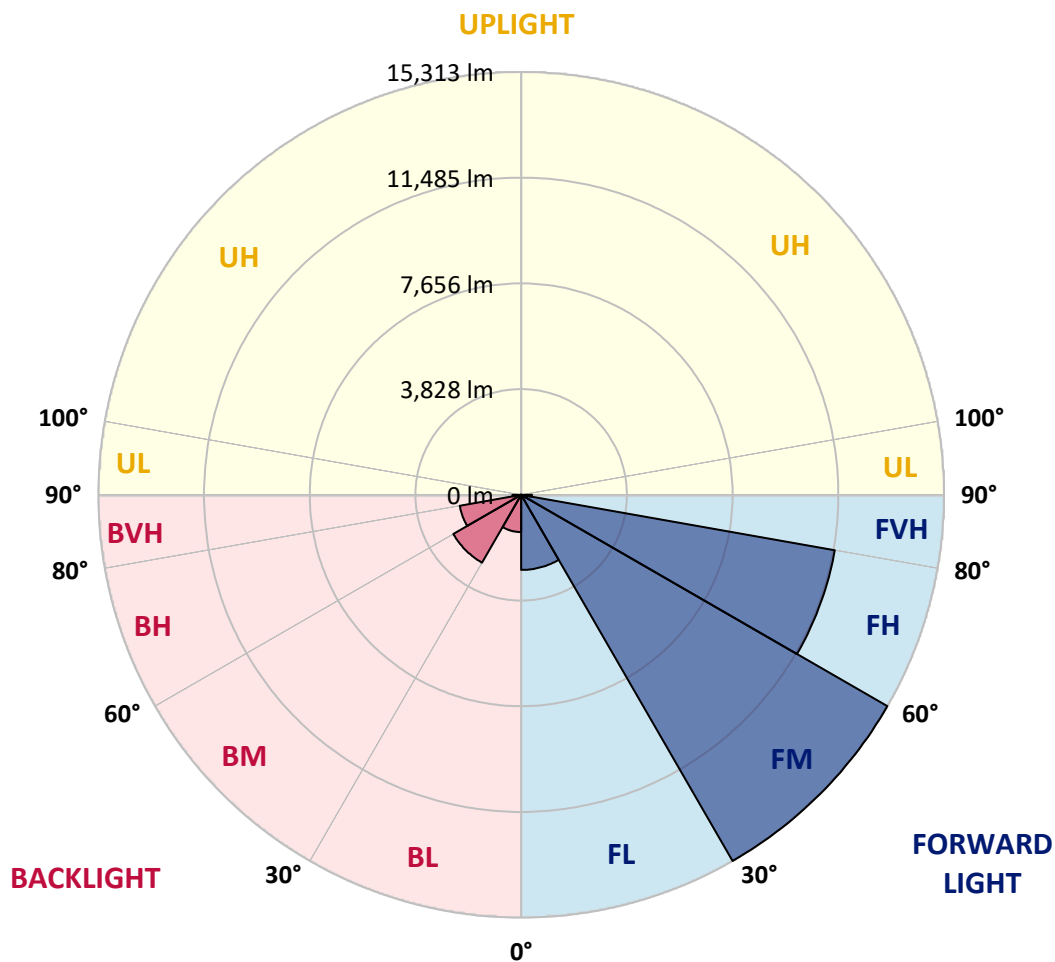
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2720.5	7.4			
FM	(30°-60°)	15312.8	41.7			
FH	(60°-80°)	11533.1	31.4			G4/12000
FVH	(80°-90°)	387.0	1.1			G3/500
BL	(0°-30°)	1349.0	3.7	B3/2500		
BM	(30°-60°)	2836.9	7.7	B3/5000		
BH	(60°-80°)	2258.7	6.2	B3/2500		G3/2500
BVH	(80°-90°)	316.9	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8
2.5°	5579.7	5547.2	5552.6	5543.6	5516.5	5469.5	5418.9	5326.7	5230.9	5180.3	5140.5
5°	6046.1	6037.0	6024.4	5995.5	5926.8	5829.2	5708.1	5545.4	5370.1	5277.9	5189.3
7.5°	6394.9	6389.5	6373.2	6355.2	6288.3	6170.8	5988.2	5756.9	5502.0	5375.5	5238.1
10°	6423.8	6432.9	6445.5	6494.3	6503.4	6440.1	6253.9	5973.8	5639.4	5476.7	5301.4
12.5°	6178.0	6197.9	6246.7	6371.4	6503.4	6581.1	6485.3	6201.5	5800.3	5603.2	5380.9
15°	5852.7	5863.5	5923.2	6094.9	6331.7	6572.1	6662.4	6452.8	6008.1	5765.9	5500.2
17.5°	5713.5	5718.9	5760.5	5874.4	6094.9	6438.3	6761.8	6725.7	6263.0	5968.4	5646.6
20°	5643.0	5655.7	5715.3	5827.4	5966.5	6266.6	6776.3	7020.3	6566.6	6221.4	5831.0
22.5°	5843.6	5838.2	5859.9	5915.9	6033.4	6214.2	6765.5	7324.0	6953.4	6546.8	6071.4
25°	6311.8	6331.7	6293.7	6230.4	6268.4	6394.9	6823.3	7652.9	7437.9	6964.3	6385.9
27.5°	6978.7	6958.9	6902.8	6754.6	6676.9	6731.1	7014.9	8007.2	8039.7	7513.8	6801.6
30°	7643.9	7627.6	7573.4	7392.7	7233.6	7188.4	7387.2	8413.9	8757.3	8173.5	7311.3
32.5°	8334.4	8316.3	8265.7	8084.9	7893.3	7788.5	7916.8	8883.9	9603.2	8961.6	7911.4
35°	9185.7	9151.4	9044.7	8793.5	8605.5	8524.2	8583.8	9474.9	10579.3	9894.2	8639.8
37.5°	9986.4	10038.8	9930.4	9583.4	9339.3	9310.4	9377.3	10196.1	11631.2	10937.2	9476.7
40°	10790.8	10799.8	10702.2	10418.4	10167.2	10120.2	10288.3	11070.9	12873.0	12184.3	10494.3
42.5°	11622.2	11640.3	11475.8	11213.7	11029.4	11038.4	11230.0	12095.8	14297.3	13653.8	11665.6
45°	12607.3	12634.4	12453.7	12110.2	11942.1	12280.1	12200.6	13245.3	15859.0	15324.0	13010.4
47.5°	13637.6	13679.1	13541.8	13220.0	13010.4	13474.9	13171.2	14519.6	17540.0	17115.2	14487.1
50°	14199.7	14259.3	14393.1	14369.6	14324.4	14246.7	14253.9	15886.1	19273.3	18980.5	16005.4
52.5°	13897.8	13896.0	14384.1	14976.9	15609.5	15656.5	15573.4	17326.7	20892.9	20804.3	17435.1
55°	12516.9	12610.9	13350.2	14497.9	16225.9	17305.0	17550.8	18976.9	22483.5	22586.5	18886.5
57.5°	10217.8	10295.5	11293.2	12892.9	15394.5	18284.6	20363.3	21375.5	24262.0	24742.8	20818.8
60°	6929.9	7023.9	8081.3	10002.7	13156.8	17738.8	23040.2	25655.6	26391.3	27484.8	23530.0
62.5°	4072.3	4157.2	5019.4	6310.0	9263.4	15202.9	24215.0	31745.1	29773.1	31622.2	27665.6
65°	2803.4	2861.3	3280.6	3927.7	5323.1	10239.5	22758.2	35949.3	34976.9	36748.2	32460.9
67.5°	2255.8	2248.5	2581.1	3022.1	3427.0	5279.7	17209.2	35473.9	39553.5	40292.7	34949.8
70°	1858.1	1850.9	2076.8	2441.9	2738.4	2973.3	9373.7	29935.8	38620.8	38920.8	32657.9
72.5°	1554.4	1561.7	1706.3	1977.4	2246.7	2239.5	4119.3	21059.2	30382.2	32457.2	26033.4
75°	1312.2	1315.9	1411.7	1603.3	1823.8	1803.9	2234.1	11408.9	17661.1	19105.3	14431.1
77.5°	1117.0	1120.6	1182.1	1288.7	1446.0	1438.8	1630.4	4929.0	7367.4	7277.0	4936.3
80°	995.9	995.9	1024.9	1044.7	1131.5	1099.0	1209.2	2367.8	3114.3	2875.7	1970.2
82.5°	780.8	784.5	961.6	954.4	891.1	849.5	849.5	1395.4	1650.2	1525.5	1153.2
85°	439.2	437.4	620.0	748.3	784.5	598.3	592.9	780.8	898.3	791.7	558.5
87.5°	188.0	191.6	287.4	332.6	444.6	372.3	366.9	403.1	457.3	395.8	258.5
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°	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8	5100.8
2.5°	5102.6	5055.6	4952.5	4824.2	4708.5	4632.6	4563.9	4464.5	4469.9	4401.3	4350.6
5°	5099.0	5001.3	4762.8	4479.0	4206.0	4009.0	3860.8	3727.1	3694.5	3631.3	3593.3
7.5°	5102.6	4943.5	4542.2	4088.6	3750.6	3501.1	3374.6	3304.1	3287.8	3266.1	3268.0
10°	5115.2	4891.1	4300.0	3723.4	3369.2	3204.7	3174.0	3195.7	3221.0	3228.2	3230.0
12.5°	5144.1	4844.1	4034.3	3398.1	3130.6	3080.0	3132.4	3206.5	3255.3	3278.8	3277.0
15°	5209.2	4807.9	3779.5	3143.2	2998.6	3025.8	3123.4	3228.2	3298.7	3331.2	3333.0
17.5°	5279.7	4755.5	3517.4	2948.0	2901.0	2969.7	3090.8	3213.7	3300.5	3336.6	3343.9
20°	5371.9	4690.5	3242.7	2801.6	2808.9	2886.6	3000.4	3123.4	3219.2	3249.9	3264.3
22.5°	5493.0	4620.0	3002.3	2682.3	2704.0	2763.7	2852.2	2958.9	3042.0	3056.5	3069.1
25°	5655.7	4544.0	2810.7	2573.9	2582.9	2617.3	2676.9	2740.2	2798.0	2781.7	2794.4
27.5°	5874.4	4479.0	2667.9	2474.5	2458.2	2465.4	2496.2	2516.0	2546.8	2501.6	2507.0
30°	6131.0	4408.5	2557.6	2387.7	2342.5	2329.9	2337.1	2347.9	2371.4	2310.0	2300.9
32.5°	6429.3	4323.5	2454.6	2311.8	2248.5	2223.2	2226.8	2255.8	2346.1	2308.2	2288.3
35°	6776.3	4227.7	2346.1	2228.6	2185.3	2149.1	2145.5	2235.9	2505.2	2481.7	2463.6
37.5°	7183.0	4131.9	2237.7	2134.7	2138.3	2098.5	2085.9	2188.9	2535.9	2443.7	2431.1
40°	7699.9	4081.3	2145.5	2035.2	2080.4	2075.0	2049.7	2102.1	2333.5	2165.4	2143.7
42.5°	8339.8	4088.6	2076.8	1928.6	2011.7	2069.6	2029.8	2031.6	2114.8	1988.2	1968.4
45°	9129.7	4173.5	2028.0	1843.6	1934.0	2064.2	2022.6	1993.7	2000.9	1934.0	1923.2
47.5°	10051.5	4348.8	1993.7	1773.2	1859.9	2044.3	2020.8	1982.8	1966.6	1930.4	1921.4
50°	11076.3	4603.7	1968.4	1706.3	1793.0	2011.7	2022.6	1972.0	1953.9	1939.4	1934.0
52.5°	12083.1	4894.7	1930.4	1648.4	1740.6	1972.0	2028.0	1961.1	1941.3	1930.4	1925.0
55°	13205.6	5258.0	1872.6	1599.6	1697.2	1921.4	2028.0	1944.9	1923.2	1925.0	1923.2
57.5°	14722.1	5845.4	1803.9	1558.1	1644.8	1859.9	1993.7	1926.8	1899.7	1901.5	1903.3
60°	17091.7	6881.1	1720.7	1516.5	1579.8	1787.6	1946.7	1887.0	1859.9	1867.1	1869.0
62.5°	20576.6	8401.2	1612.3	1455.0	1511.1	1709.9	1881.6	1836.4	1809.3	1827.4	1827.4
65°	24198.8	9742.4	1478.5	1377.3	1438.8	1624.9	1800.3	1773.2	1746.0	1787.6	1785.8
67.5°	25173.0	9442.4	1344.8	1292.4	1366.5	1531.0	1702.7	1688.2	1673.7	1746.0	1742.4
70°	22362.4	7580.6	1221.9	1205.6	1286.9	1429.7	1597.8	1597.8	1588.8	1643.0	1630.4
72.5°	17037.5	5375.5	1104.4	1113.4	1196.6	1319.5	1484.0	1496.6	1482.1	1509.3	1498.4
75°	9120.6	3076.4	986.9	1012.2	1084.5	1207.4	1357.4	1370.1	1361.0	1359.2	1364.7
77.5°	3031.2	1503.8	864.0	903.7	967.0	1091.7	1225.5	1245.4	1223.7	1220.1	1218.3
80°	1350.2	945.3	728.4	780.8	836.9	959.8	1086.3	1102.6	1079.1	1111.6	1070.0
82.5°	867.6	621.8	583.8	641.7	695.9	827.8	947.1	950.7	929.1	1079.1	920.0
85°	421.1	385.0	439.2	491.6	538.6	650.7	784.5	786.3	732.0	667.0	643.5
87.5°	209.7	224.1	292.8	339.8	363.3	446.5	571.2	560.3	536.8	488.0	450.1
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)