

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: P268859

Luminaire Tested: **GAN-AF-09-LED-U-T2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268859
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: GAN-AF-09-LED-U-T2-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36655.4 lumens
Efficiency: N/A
Efficacy: 98.0 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

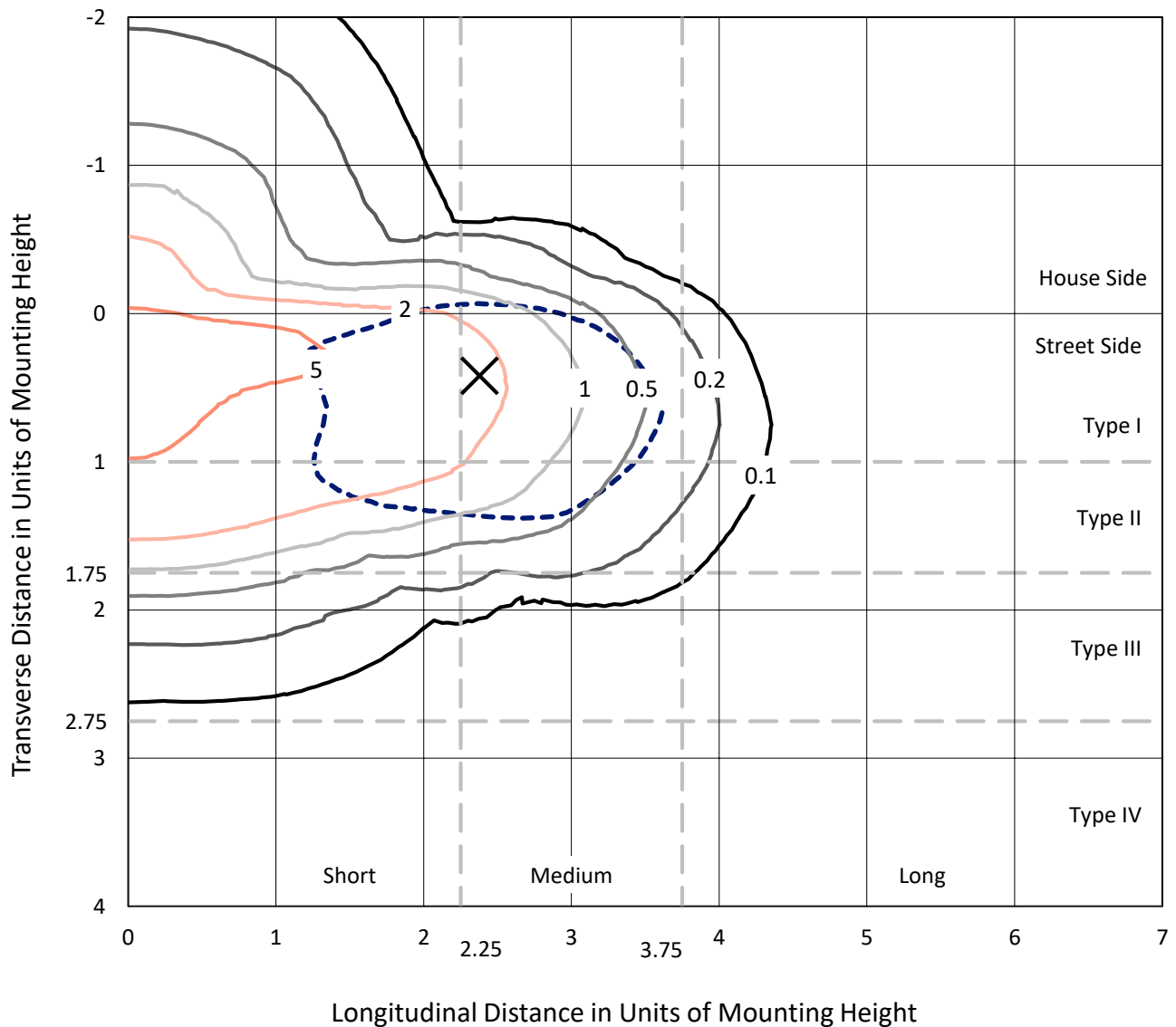
Input Watts (W): 374
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

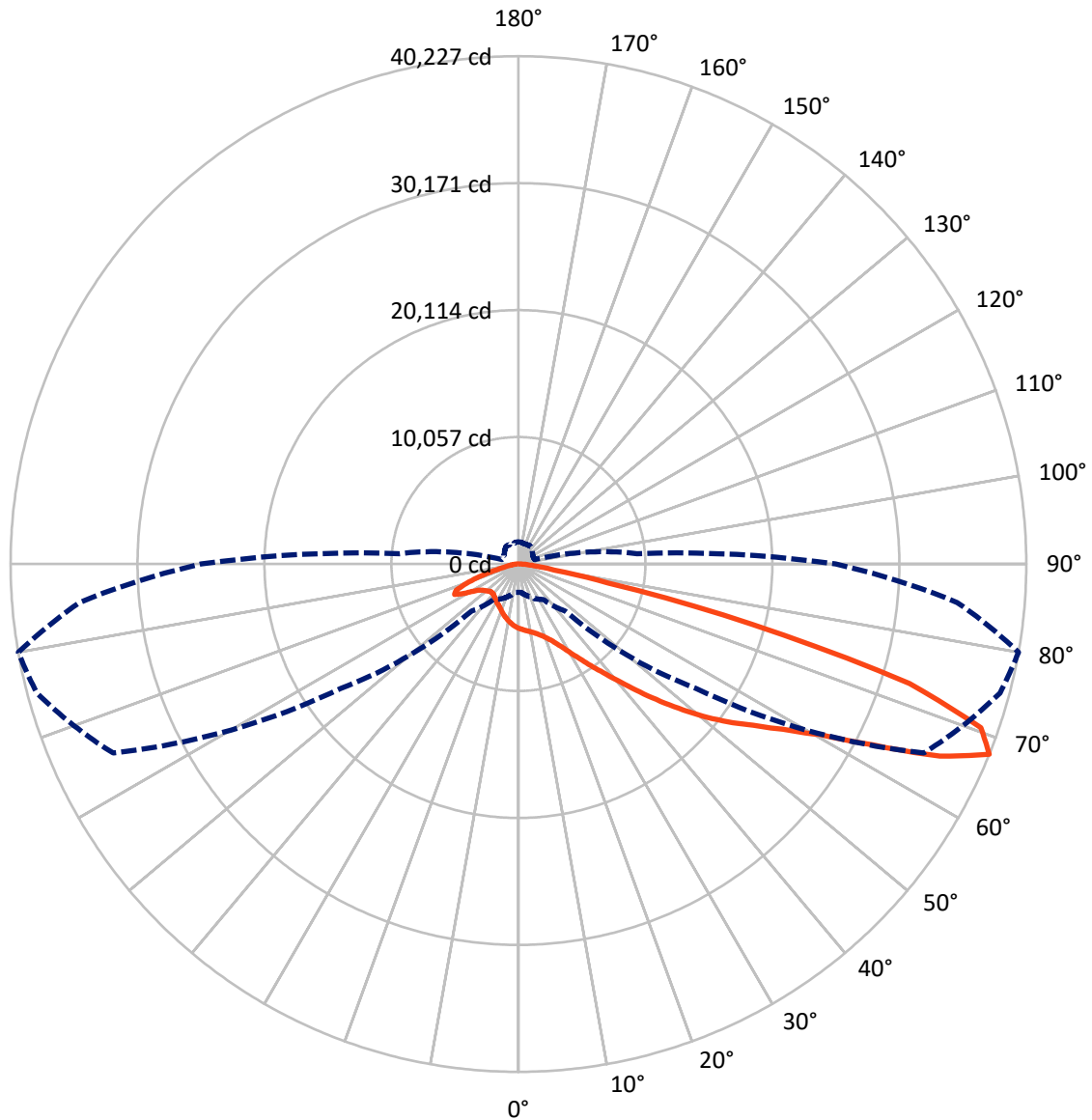
× Max cd
 - - - 1/2 Max cd



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	6750.5	0.0	6750.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	29904.8	0.0	29904.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	36655.4	0.0	36655.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.8	1.3
10°-20°	1353.2	3.7
20°-30°	2239.9	6.1
30°-40°	3663.9	10.0
40°-50°	5915.8	16.1
50°-60°	8540.6	23.3
60°-70°	9425.1	25.7
70°-80°	4344.4	11.9
80°-90°	702.7	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°	36655.4	100.0
0°-180°	36655.4	100.0



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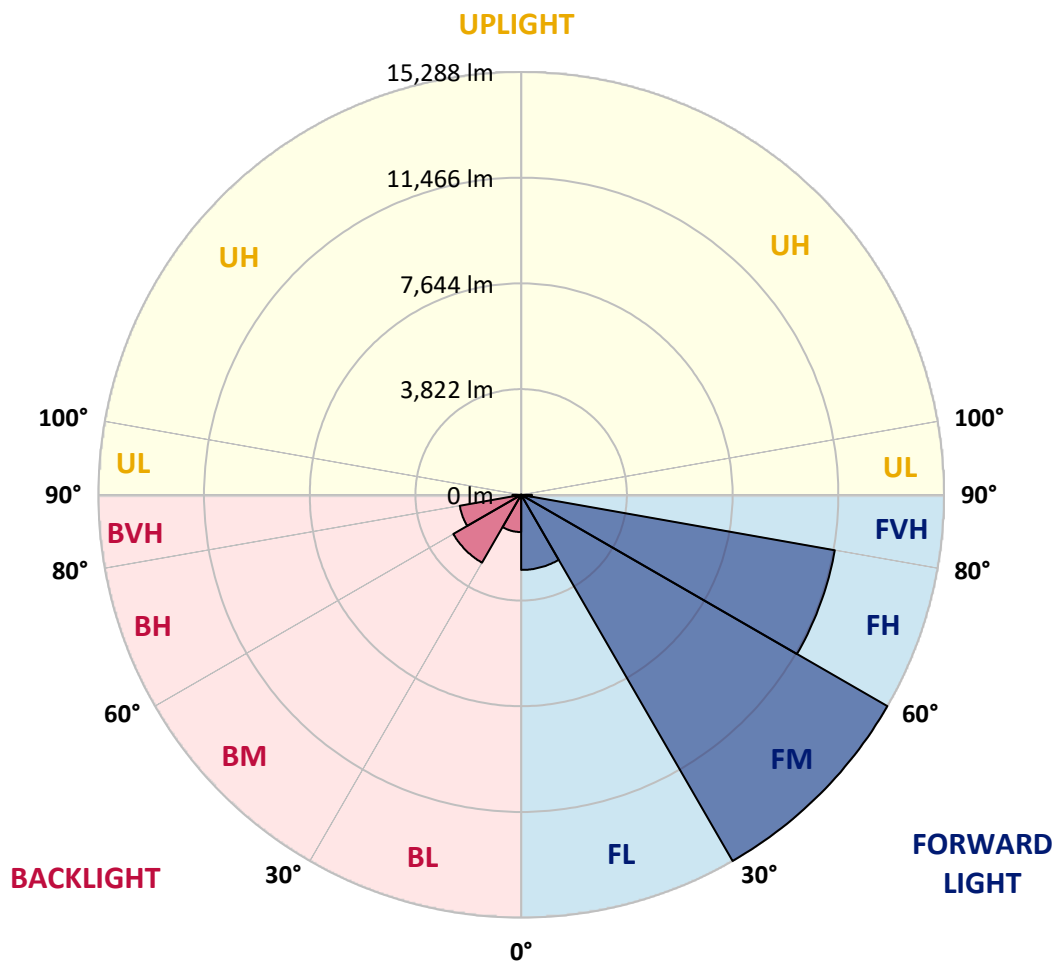
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2716.1	7.4			
FM	(30°-60°)	15288.0	41.7			
FH	(60°-80°)	11514.4	31.4			G4/12000
FVH	(80°-90°)	386.3	1.1			G3/500
BL	(0°-30°)	1346.8	3.7	B3/2500		
BM	(30°-60°)	2832.3	7.7	B3/5000		
BH	(60°-80°)	2255.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	316.4	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°	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5
2.5°	5570.7	5538.2	5543.6	5534.5	5507.6	5460.6	5410.1	5318.1	5222.4	5171.9	5132.1
5°	6036.3	6027.3	6014.6	5985.8	5917.1	5819.7	5698.8	5536.4	5361.4	5269.4	5181.0
7.5°	6384.6	6379.1	6363.0	6344.9	6278.2	6160.8	5978.5	5747.5	5493.1	5366.8	5229.7
10°	6413.4	6422.4	6435.1	6483.8	6492.9	6429.7	6243.8	5964.0	5630.2	5467.9	5292.9
12.5°	6168.0	6187.9	6236.7	6361.1	6492.9	6570.5	6474.9	6191.5	5790.8	5594.1	5372.3
15°	5843.2	5854.1	5913.6	6084.9	6321.5	6561.4	6651.7	6442.4	5998.4	5756.6	5491.2
17.5°	5704.2	5709.6	5751.2	5864.9	6084.9	6427.9	6750.9	6714.8	6252.8	5958.6	5637.5
20°	5633.9	5646.4	5706.0	5818.0	5956.9	6256.4	6765.3	7008.9	6556.0	6211.3	5821.6
22.5°	5834.2	5828.7	5850.4	5906.4	6023.7	6204.1	6754.5	7312.2	6942.2	6536.2	6061.6
25°	6301.6	6321.5	6283.6	6220.4	6258.2	6384.6	6812.2	7640.5	7425.7	6953.1	6375.5
27.5°	6967.4	6947.6	6891.6	6743.7	6666.1	6720.2	7003.5	7994.2	8026.7	7501.6	6790.6
30°	7631.6	7615.3	7561.2	7380.7	7222.0	7176.7	7375.3	8400.3	8743.2	8160.3	7299.4
32.5°	8320.9	8302.9	8252.3	8071.8	7880.7	7775.9	7904.0	8869.4	9587.7	8947.1	7898.5
35°	9170.8	9136.5	9030.1	8779.2	8591.6	8510.4	8569.9	9459.5	10562.1	9878.2	8625.9
37.5°	9970.3	10022.6	9914.4	9567.8	9324.1	9295.3	9362.1	10179.7	11612.4	10919.4	9461.4
40°	10773.4	10782.4	10684.9	10401.6	10150.7	10103.7	10271.6	11052.9	12852.1	12164.6	10477.3
42.5°	11603.3	11621.5	11457.3	11195.5	11011.6	11020.4	11211.7	12076.2	14274.2	13631.7	11646.7
45°	12587.0	12614.0	12433.5	12090.6	11922.8	12260.2	12180.8	13223.9	15833.3	15299.2	12989.3
47.5°	13615.5	13657.0	13519.9	13198.6	12989.3	13453.0	13149.8	14496.0	17511.6	17087.5	14463.6
50°	14176.7	14236.2	14369.7	14346.3	14301.2	14223.7	14230.9	15860.4	19242.1	18949.7	15979.5
52.5°	13875.3	13873.6	14360.8	14952.6	15584.2	15631.1	15548.1	17298.7	20859.1	20770.6	17406.8
55°	12496.6	12590.5	13328.5	14474.5	16199.7	17276.9	17522.3	18946.2	22447.0	22550.0	18856.0
57.5°	10201.2	10278.9	11274.9	12872.1	15369.6	18255.0	20330.4	21340.9	24222.7	24702.9	20785.1
60°	6918.7	7012.6	8068.2	9986.5	13135.5	17710.1	23002.9	25614.1	26348.5	27440.3	23491.9
62.5°	4065.6	4150.4	5011.3	6299.8	9248.4	15178.2	24175.8	31693.7	29724.8	31570.9	27620.7
65°	2798.8	2856.6	3275.3	3921.3	5314.5	10222.9	22721.4	35891.2	34920.3	36688.8	32408.3
67.5°	2252.1	2244.9	2576.9	3017.2	3421.5	5271.2	17181.3	35416.4	39489.4	40227.4	34893.1
70°	1855.1	1847.9	2073.5	2438.0	2733.9	2968.4	9358.5	29887.2	38558.3	38857.9	32605.1
72.5°	1551.9	1559.2	1703.5	1974.1	2243.1	2235.8	4112.6	21025.1	30333.1	32404.6	25991.2
75°	1310.1	1313.7	1409.4	1600.7	1820.9	1800.9	2230.4	11390.5	17632.6	19074.3	14407.6
77.5°	1115.2	1118.7	1180.3	1286.6	1443.7	1436.4	1627.6	4921.1	7355.4	7265.2	4928.3
80°	994.3	994.3	1023.2	1043.0	1129.7	1097.2	1207.2	2364.0	3109.3	2871.1	1967.0
82.5°	779.5	783.2	960.0	952.8	889.6	848.2	848.2	1393.1	1647.6	1523.0	1151.3
85°	438.6	436.7	618.9	747.1	783.2	597.4	592.0	779.5	896.9	790.4	557.6
87.5°	187.7	191.2	286.9	332.1	443.9	371.8	366.2	402.4	456.6	395.3	258.1
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°	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5
2.5°	5094.3	5047.3	4944.5	4816.4	4700.9	4625.2	4556.6	4457.3	4462.7	4394.1	4343.7
5°	5090.6	4993.3	4755.1	4471.8	4199.2	4002.6	3854.5	3721.0	3688.5	3625.4	3587.6
7.5°	5094.3	4935.5	4535.0	4082.0	3744.4	3495.5	3369.2	3298.8	3282.4	3260.8	3262.6
10°	5107.0	4883.1	4293.1	3717.5	3363.8	3199.6	3168.9	3190.5	3215.8	3222.9	3224.7
12.5°	5135.8	4836.3	4027.8	3392.5	3125.6	3075.0	3127.3	3201.3	3250.1	3273.6	3271.6
15°	5200.7	4800.2	3773.4	3138.1	2993.8	3020.8	3118.2	3222.9	3293.4	3325.9	3327.6
17.5°	5271.2	4747.8	3511.7	2943.2	2896.3	2964.9	3085.8	3208.6	3295.2	3331.3	3338.5
20°	5363.2	4682.9	3237.4	2797.1	2804.2	2881.9	2995.6	3118.2	3214.0	3244.6	3259.1
22.5°	5484.2	4612.4	2997.4	2677.9	2699.6	2759.1	2847.5	2954.0	3037.1	3051.5	3064.2
25°	5646.4	4536.7	2806.1	2569.7	2578.8	2613.0	2672.5	2735.7	2793.5	2777.2	2789.9
27.5°	5864.9	4471.8	2663.6	2470.5	2454.2	2461.4	2492.1	2512.0	2542.7	2497.5	2502.9
30°	6121.1	4401.3	2553.4	2383.8	2338.7	2326.2	2333.3	2344.1	2367.7	2306.3	2297.2
32.5°	6418.8	4316.5	2450.5	2308.0	2244.9	2219.6	2223.2	2252.1	2342.3	2304.4	2284.6
35°	6765.3	4220.9	2342.3	2225.0	2181.8	2145.6	2142.0	2232.3	2501.2	2477.6	2459.6
37.5°	7171.3	4125.2	2234.1	2131.1	2134.8	2095.0	2082.5	2185.3	2531.9	2439.7	2427.1
40°	7687.4	4074.7	2142.0	2032.0	2077.2	2071.6	2046.3	2098.7	2329.8	2162.0	2140.2
42.5°	8326.3	4082.0	2073.5	1925.4	2008.5	2066.2	2026.5	2028.4	2111.3	1985.1	1965.2
45°	9114.9	4166.8	2024.7	1840.6	1930.8	2060.8	2019.3	1990.5	1997.7	1930.8	1920.0
47.5°	10035.2	4341.8	1990.5	1770.3	1856.8	2040.9	2017.6	1979.7	1963.3	1927.3	1918.3
50°	11058.5	4596.3	1965.2	1703.5	1790.1	2008.5	2019.3	1968.7	1950.7	1936.2	1930.8
52.5°	12063.6	4886.8	1927.3	1645.8	1737.9	1968.7	2024.7	1957.9	1938.2	1927.3	1921.8
55°	13184.2	5249.4	1869.6	1597.0	1694.6	1918.3	2024.7	1941.7	1920.0	1921.8	1920.0
57.5°	14698.2	5836.0	1800.9	1555.5	1642.1	1856.8	1990.5	1923.7	1896.6	1898.4	1900.3
60°	17064.1	6870.0	1718.0	1514.1	1577.2	1784.8	1943.6	1883.9	1856.8	1864.2	1865.9
62.5°	20543.2	8387.7	1609.7	1452.6	1508.7	1707.0	1878.5	1833.4	1806.4	1824.4	1824.4
65°	24159.6	9726.7	1476.2	1375.0	1436.4	1622.2	1797.4	1770.3	1743.3	1784.8	1783.0
67.5°	25132.3	9427.1	1342.5	1290.2	1364.3	1528.5	1700.0	1685.5	1671.0	1743.3	1739.6
70°	22326.1	7568.4	1219.9	1203.6	1284.8	1427.3	1595.2	1595.2	1586.1	1640.3	1627.6
72.5°	17009.9	5366.8	1102.6	1111.7	1194.7	1317.4	1481.6	1494.2	1479.8	1506.7	1495.9
75°	9105.8	3071.3	985.4	1010.6	1082.7	1205.4	1355.3	1367.8	1358.9	1357.0	1362.5
77.5°	3026.3	1501.3	862.6	902.3	965.5	1090.0	1223.5	1243.3	1221.7	1218.1	1216.2
80°	1347.9	943.8	727.3	779.5	835.6	958.2	1084.6	1100.9	1077.3	1109.9	1068.4
82.5°	866.1	620.8	582.9	640.6	694.7	826.5	945.6	949.1	927.6	1077.3	918.5
85°	420.4	384.4	438.6	490.8	537.7	649.7	783.2	784.9	730.9	666.0	642.4
87.5°	209.3	223.8	292.4	339.3	362.7	445.6	570.2	559.5	536.0	487.2	449.3
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)