

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: P318029

Luminaire Tested: **GAN-SA5A-730-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318029  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5A-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20816 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

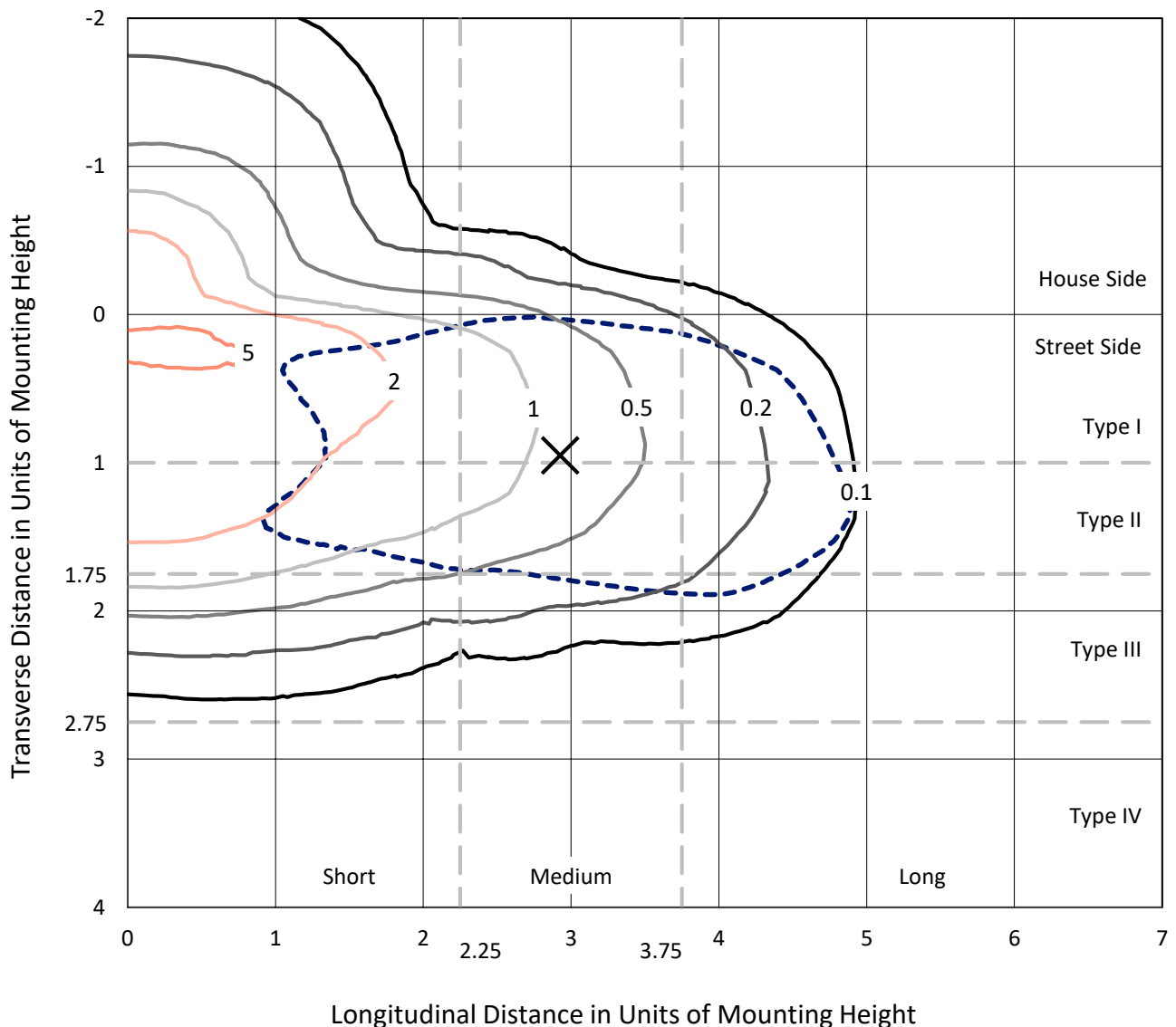
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

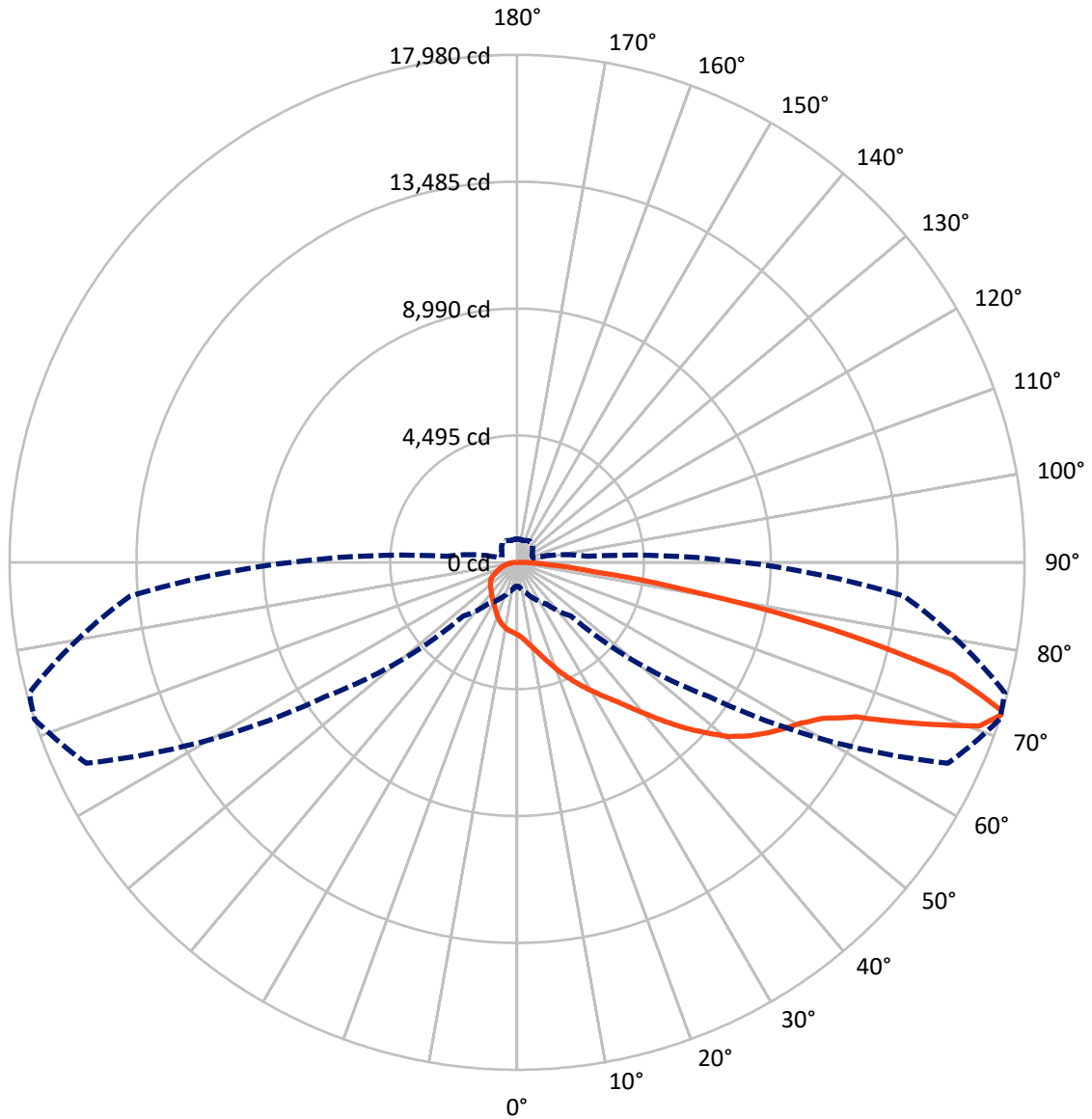
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3861.5	0.0	3861.5
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	16954.5	0.0	16954.5
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	20816.0	0.0	20816.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.6	1.2
10°-20°	829.2	4.0
20°-30°	1453.1	7.0
30°-40°	2154.5	10.4
40°-50°	3151.1	15.1
50°-60°	4335.9	20.8
60°-70°	4827.1	23.2
70°-80°	3270.9	15.7
80°-90°	537.6	2.6
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°	20816.0	100.0
0°-180°	20816.0	100.0

**Coefficient of Utilization**

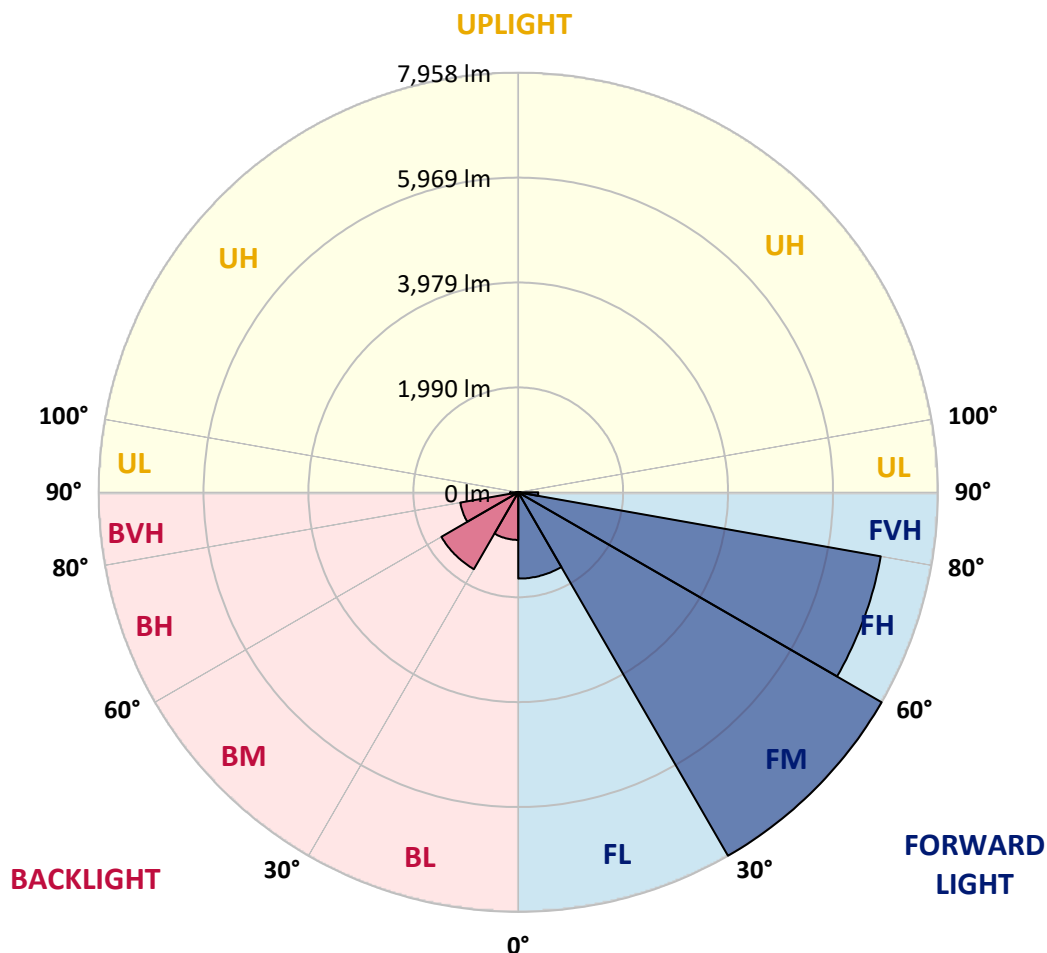


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1636.3	7.9			
FM (30°-60°)	7958.2	38.2			
FH (60°-80°)	6980.8	33.5			G3/7500
FVH (80°-90°)	379.2	1.8			G3/500
BL (0°-30°)	902.7	4.3	B2/1000		
BM (30°-60°)	1683.3	8.1	B2/2500		
BH (60°-80°)	1117.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	158.4	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9
2.5°	2829.0	2824.7	2809.6	2809.6	2781.0	2756.6	2710.7	2679.9	2643.3	2630.4	2587.4
5°	3102.8	3104.2	3085.6	3072.7	3030.4	2978.8	2900.6	2829.7	2758.7	2730.1	2641.9
7.5°	3332.8	3330.0	3325.0	3314.2	3274.8	3221.7	3116.4	3011.0	2906.4	2863.4	2711.4
10°	3480.5	3486.9	3491.2	3496.3	3479.8	3441.8	3342.2	3213.9	3077.0	3018.2	2794.6
12.5°	3555.0	3566.5	3586.6	3621.0	3648.2	3643.9	3571.5	3435.3	3272.6	3198.8	2898.5
15°	3598.8	3613.8	3645.3	3707.0	3783.7	3827.4	3808.0	3684.8	3503.4	3412.4	3025.4
17.5°	3626.0	3638.2	3686.9	3769.3	3883.3	3999.4	4050.3	3947.1	3764.3	3660.4	3170.9
20°	3644.6	3653.9	3714.9	3811.6	3959.3	4144.2	4286.1	4260.3	4051.7	3917.0	3322.8
22.5°	3686.2	3694.1	3752.1	3849.6	4013.0	4251.7	4513.3	4552.0	4354.9	4202.2	3485.5
25°	3802.3	3802.3	3851.0	3919.1	4072.5	4344.9	4705.4	4876.7	4664.5	4486.8	3636.0
27.5°	4023.8	4021.6	4039.5	4063.2	4179.3	4439.5	4876.7	5163.4	4985.6	4791.4	3782.2
30°	4286.1	4300.4	4302.6	4291.1	4345.6	4557.7	5035.1	5465.9	5308.9	5099.6	3932.0
32.5°	4623.7	4633.0	4622.3	4584.3	4576.4	4725.5	5190.6	5782.7	5658.7	5421.4	4068.9
35°	5052.3	5034.4	5000.7	4923.3	4849.5	4949.8	5368.4	6099.5	6051.4	5810.6	4257.4
37.5°	5511.7	5512.4	5470.9	5295.3	5193.5	5236.5	5613.5	6458.5	6526.6	6273.6	4499.0
40°	5880.1	5899.5	5925.3	5694.5	5562.6	5622.1	5925.3	6875.0	7088.6	6822.6	4813.6
42.5°	6137.4	6159.7	6232.8	6088.0	5951.1	6061.5	6292.3	7319.3	7719.3	7456.2	5182.0
45°	6409.8	6422.0	6473.6	6411.2	6323.8	6572.5	6705.8	7779.5	8386.6	8131.4	5594.2
47.5°	6696.5	6709.4	6762.4	6720.9	6675.0	7049.9	7137.3	8213.1	9025.9	8873.2	6034.2
50°	7050.6	7059.2	7109.3	7034.1	7048.4	7409.7	7522.9	8610.9	9696.1	9539.8	6475.7
52.5°	7533.7	7535.8	7605.3	7537.2	7469.9	7673.4	7854.8	8985.8	10221.4	10147.6	6917.3
55°	7912.1	7935.0	8162.9	8148.6	8109.9	7912.8	8132.1	9342.7	10690.2	10725.3	7386.0
57.5°	7670.5	7760.1	8221.7	8547.1	8863.9	8508.4	8507.0	9744.8	11126.0	11292.2	7901.3
60°	6718.0	6839.8	7520.0	8241.8	9233.0	9544.8	9285.4	10235.8	11566.0	11854.2	8547.1
62.5°	4797.9	4998.5	5920.3	7072.8	8727.0	10231.5	10869.4	11014.9	12164.5	12505.0	9386.4
65°	2425.4	2577.4	3350.0	4738.4	6972.4	9782.8	12591.0	12720.7	13204.5	13507.0	10678.7
67.5°	1473.6	1531.0	1908.0	2635.5	4274.6	7620.4	13152.9	15564.0	15217.1	15377.7	12521.4
70°	1085.9	1128.1	1363.2	1750.3	2458.4	4471.7	11428.4	17593.1	17365.2	17347.3	13883.2
72°	845.8	876.6	1084.4	1414.1	1797.6	2682.8	8283.4	16844.1	17980.1	17889.8	13758.5
72.5°	802.0	829.3	1018.5	1331.0	1698.7	2431.9	7447.6	16338.8	17935.7	17894.8	13597.3
75°	631.4	650.8	754.0	1029.2	1329.6	1379.7	4081.1	12661.9	15910.9	16572.5	12229.7
77.5°	522.5	525.4	579.8	749.0	1036.4	975.5	2004.7	8785.1	11393.3	12120.8	8663.2
80°	425.7	429.3	455.1	525.4	784.1	721.8	951.8	5051.6	6379.0	6386.9	4119.8
82.5°	339.0	339.7	368.4	384.2	563.4	516.1	545.4	2371.7	2787.4	2681.3	1480.8
85°	238.7	233.7	359.8	315.4	368.4	331.1	301.0	938.9	1152.5	1102.3	463.7
87.5°	79.6	82.4	159.8	204.3	215.0	187.8	134.0	359.8	435.1	431.5	146.9
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°	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9
2.5°	2573.8	2550.9	2517.2	2479.9	2450.5	2420.4	2398.2	2386.7	2373.8	2363.1	2376.0
5°	2601.0	2558.0	2486.4	2416.1	2364.5	2318.7	2285.7	2268.5	2252.7	2242.0	2243.4
7.5°	2645.5	2576.0	2455.6	2353.1	2281.4	2231.9	2198.2	2186.8	2176.7	2173.9	2177.5
10°	2692.8	2590.3	2414.7	2278.5	2196.8	2156.0	2140.9	2148.8	2156.0	2162.4	2169.6
12.5°	2746.5	2603.2	2355.2	2191.1	2121.5	2105.8	2120.8	2155.2	2180.3	2195.4	2204.7
15°	2816.8	2614.7	2286.4	2103.6	2057.0	2075.0	2125.9	2185.3	2229.1	2257.0	2261.3
17.5°	2881.3	2613.9	2198.2	2015.5	2004.7	2057.0	2133.7	2217.6	2276.4	2315.8	2323.7
20°	2948.0	2594.6	2095.7	1929.5	1951.7	2037.7	2137.3	2238.4	2309.3	2355.2	2366.0
22.5°	3010.3	2560.9	1983.2	1851.3	1907.2	2011.9	2123.7	2226.2	2297.2	2334.4	2345.9
25°	3052.6	2502.1	1869.3	1785.4	1867.8	1980.4	2079.3	2161.7	2214.7	2233.4	2236.2
27.5°	3074.1	2425.4	1761.7	1728.1	1827.0	1928.7	1996.8	2037.7	2052.7	2051.3	2048.4
30°	3077.0	2324.4	1669.3	1681.5	1779.7	1852.8	1885.0	1877.1	1857.8	1824.8	1827.7
32.5°	3067.6	2210.4	1591.9	1637.0	1719.5	1760.3	1761.7	1723.8	1672.2	1619.8	1605.5
35°	3070.5	2098.6	1523.8	1586.9	1646.4	1664.3	1647.8	1591.9	1521.6	1454.3	1439.9
37.5°	3102.0	2001.1	1465.0	1528.8	1565.4	1569.7	1546.0	1487.2	1435.6	1369.7	1364.0
40°	3177.3	1931.6	1409.1	1463.6	1484.4	1486.5	1452.8	1411.3	1415.6	1380.4	1379.7
42.5°	3312.8	1901.5	1359.7	1395.5	1408.4	1412.7	1386.9	1360.4	1397.6	1374.7	1366.8
45°	3487.7	1908.7	1318.1	1328.8	1352.5	1372.6	1356.8	1324.5	1338.9	1239.2	1206.3
47.5°	3689.8	1954.5	1285.1	1271.5	1312.4	1350.3	1326.0	1277.2	1226.3	1127.4	1108.8
50°	3926.3	2025.5	1255.0	1214.9	1268.6	1320.2	1295.9	1226.3	1149.7	1101.6	1095.2
52.5°	4172.9	2112.2	1224.9	1152.5	1213.4	1297.3	1285.1	1214.9	1120.3	1073.0	1064.4
55°	4452.4	2199.7	1186.9	1080.1	1154.0	1286.5	1280.1	1173.3	1098.0	1071.5	1065.1
57.5°	4800.0	2299.3	1136.7	1004.9	1098.0	1247.8	1227.8	1148.2	1075.1	1055.0	1052.9
60°	5253.0	2446.2	1064.4	924.6	1030.0	1188.4	1184.1	1111.7	1038.6	1024.2	1021.4
62.5°	5932.5	2689.2	964.7	844.3	954.0	1087.3	1126.7	1062.2	999.9	999.1	1000.6
65°	6986.1	3054.7	856.5	774.1	877.3	1002.0	1060.1	1011.3	960.4	974.8	976.9
67.5°	8207.4	3357.9	750.4	705.3	799.2	921.0	999.9	960.4	908.1	945.4	946.1
70°	8613.8	3087.0	657.3	637.2	718.2	842.9	934.6	904.5	851.5	888.8	885.2
72°	8016.0	2492.1	597.0	585.6	657.3	778.4	876.6	852.2	799.9	825.0	815.6
72.5°	7827.5	2376.0	582.0	572.7	640.8	761.9	861.5	839.3	787.0	808.5	799.9
75°	6982.5	2063.5	500.3	502.4	559.1	681.6	776.9	769.8	716.0	718.2	715.3
77.5°	5064.5	1513.0	421.4	435.8	475.9	599.2	691.7	687.4	628.6	617.8	615.7
80°	2350.2	771.9	343.3	349.8	391.3	501.0	589.9	584.1	536.8	523.2	515.3
82.5°	804.9	367.0	258.0	262.3	303.2	403.5	511.8	508.2	468.7	442.2	425.7
85°	287.4	182.8	180.6	176.3	216.5	317.5	445.8	426.5	368.4	313.9	312.5
87.5°	93.2	78.1	93.2	92.5	126.1	215.0	324.0	275.9	267.3	222.2	217.9
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)