

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: P317990

Luminaire Tested: **GAN-SA6A-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317990
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-SA6A-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22875 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

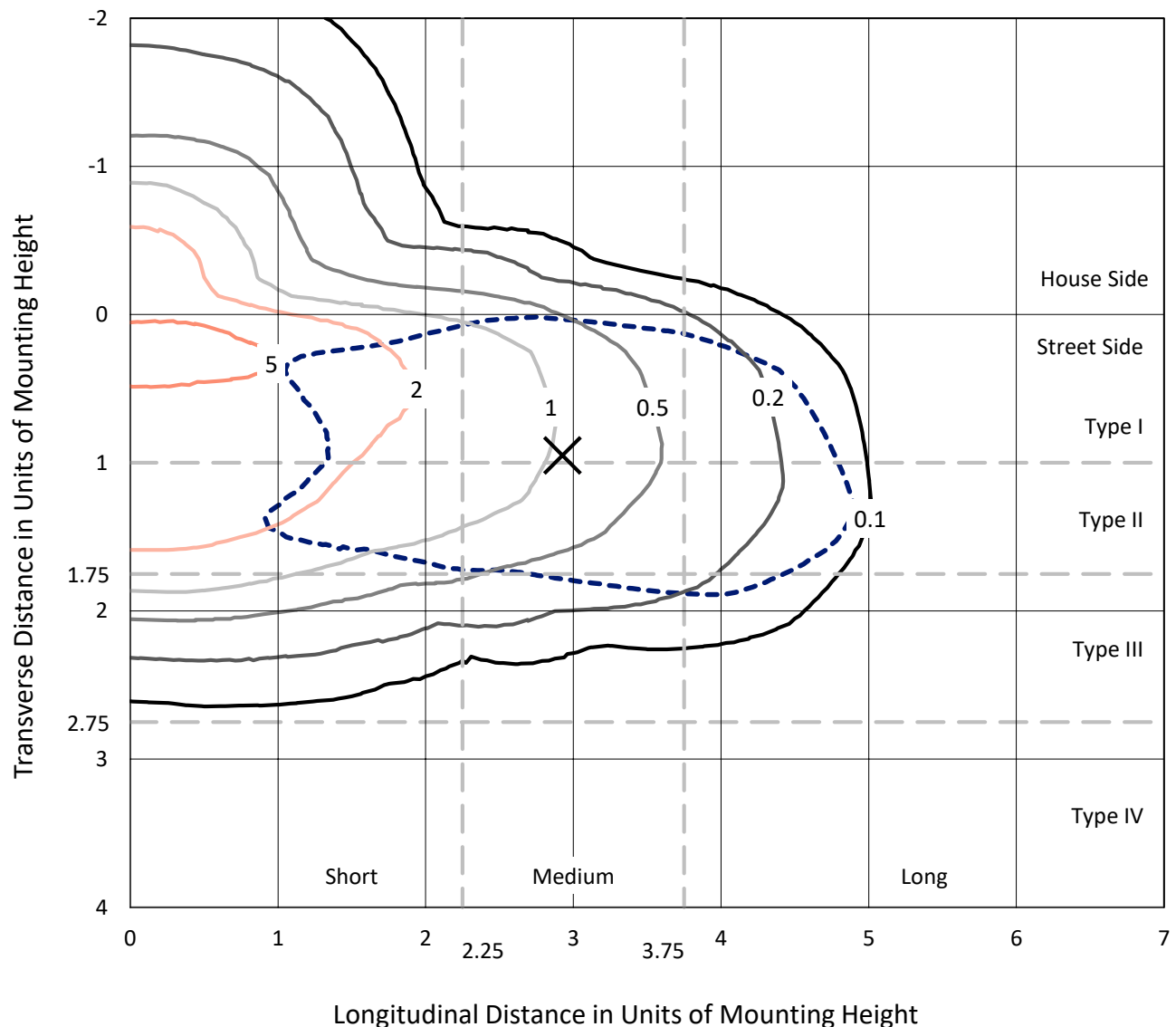
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

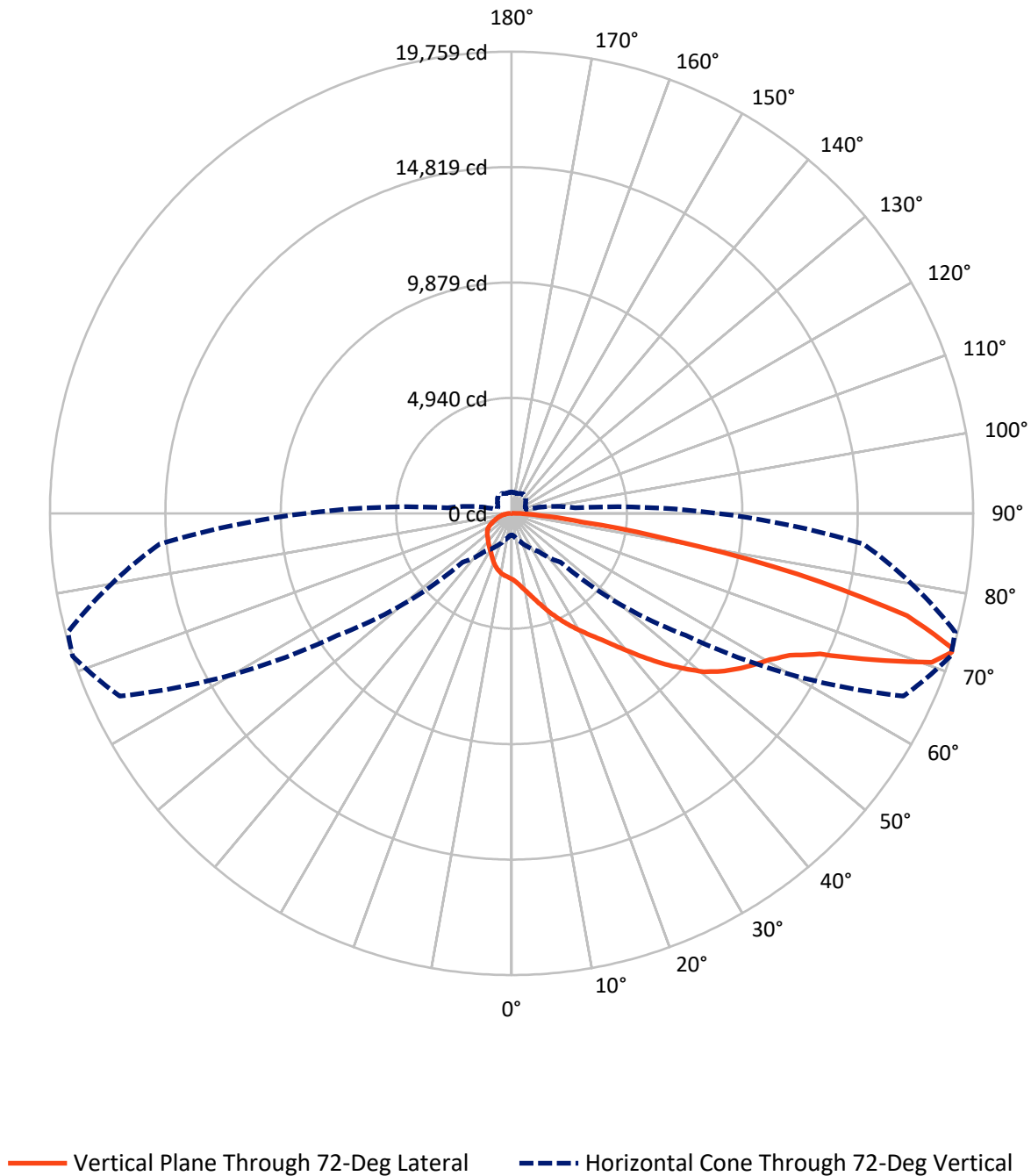
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4243.5	0.0	4243.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	18631.5	0.0	18631.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	22875.0	0.0	22875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.0	1.2
10°-20°	911.3	4.0
20°-30°	1596.8	7.0
30°-40°	2367.6	10.4
40°-50°	3462.8	15.1
50°-60°	4764.8	20.8
60°-70°	5304.6	23.2
70°-80°	3594.4	15.7
80°-90°	590.8	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°	22875.0	100.0
0°-180°	22875.0	100.0

Coefficient of Utilization



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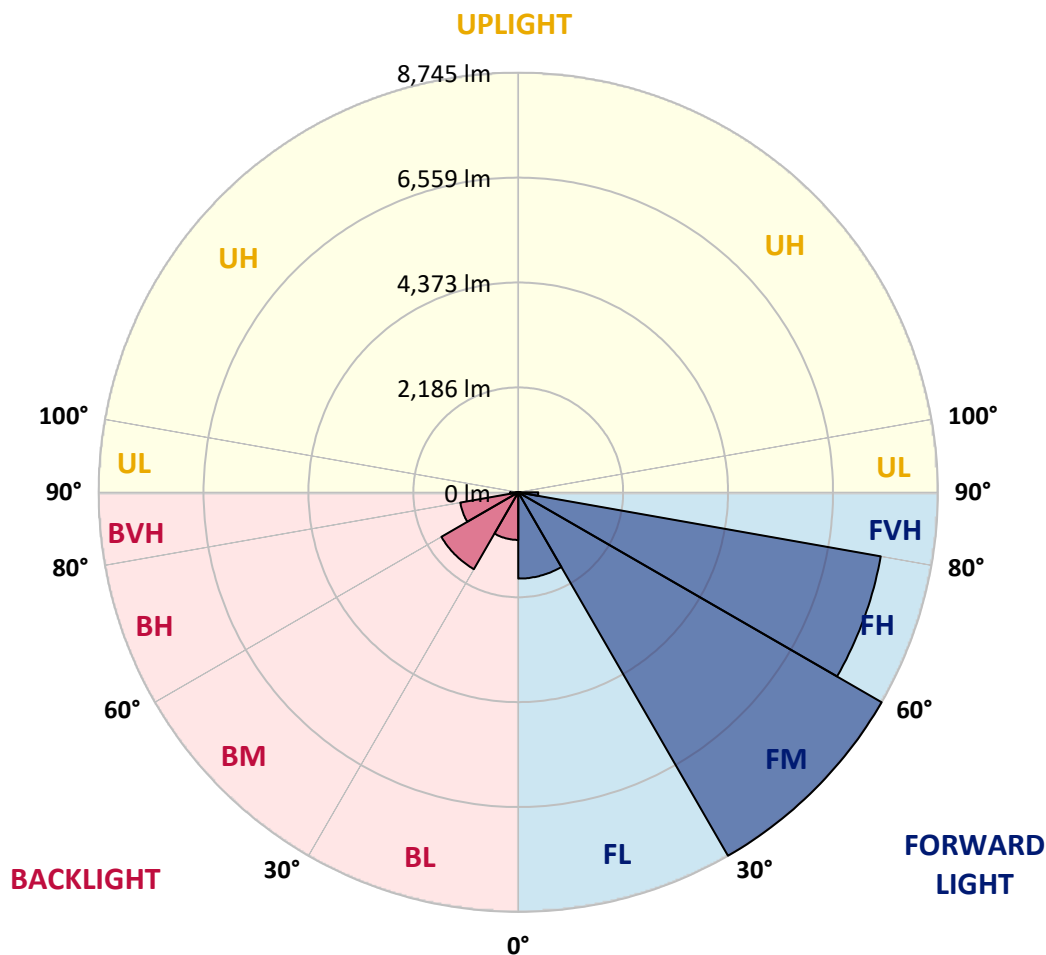
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1798.1	7.9			
FM	(30°-60°)	8745.4	38.2			
FH	(60°-80°)	7671.3	33.5			G4/12000
FVH	(80°-90°)	416.7	1.8			G3/500
BL	(0°-30°)	992.0	4.3	B2/1000		
BM	(30°-60°)	1849.8	8.1	B2/2500		
BH	(60°-80°)	1227.7	5.4	B3/2500		G3/2500
BVH	(80°-90°)	174.1	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2
2.5°	3108.8	3104.1	3087.5	3087.5	3056.0	3029.2	2978.8	2945.0	2904.8	2890.6	2843.4
5°	3409.7	3411.2	3390.8	3376.6	3330.1	3273.4	3187.6	3109.6	3031.6	3000.1	2903.2
7.5°	3662.5	3659.4	3653.8	3642.0	3598.7	3540.4	3424.6	3308.9	3193.9	3146.6	2979.6
10°	3824.8	3831.8	3836.6	3842.1	3824.0	3782.2	3672.7	3531.8	3381.3	3316.7	3071.0
12.5°	3906.7	3919.3	3941.3	3979.1	4009.1	4004.3	3924.8	3775.1	3596.3	3515.2	3185.2
15°	3954.7	3971.3	4005.9	4073.7	4157.9	4206.0	4184.7	4049.2	3850.0	3749.9	3324.6
17.5°	3984.6	3998.0	4051.6	4142.2	4267.4	4395.0	4450.9	4337.5	4136.7	4022.5	3484.5
20°	4005.1	4015.4	4082.3	4188.6	4350.9	4554.1	4710.1	4681.7	4452.5	4304.4	3651.5
22.5°	4050.8	4059.5	4123.3	4230.4	4410.0	4672.3	4959.7	5002.3	4785.7	4617.9	3830.3
25°	4178.4	4178.4	4232.0	4306.8	4475.3	4774.6	5170.8	5359.1	5125.9	4930.6	3995.7
27.5°	4421.8	4419.4	4439.1	4465.1	4592.7	4878.6	5359.1	5674.1	5478.8	5265.3	4156.4
30°	4710.1	4725.8	4728.2	4715.6	4775.4	5008.6	5533.1	6006.5	5834.0	5604.0	4321.0
32.5°	5081.0	5091.3	5079.5	5037.7	5029.1	5192.9	5704.1	6354.6	6218.4	5957.7	4471.4
35°	5552.0	5532.4	5495.3	5410.3	5329.1	5439.4	5899.4	6702.8	6650.0	6385.4	4678.6
37.5°	6056.9	6057.7	6012.0	5819.1	5707.2	5754.5	6168.8	7097.4	7172.2	6894.2	4944.0
40°	6461.8	6483.0	6511.4	6257.8	6112.8	6178.2	6511.4	7555.0	7789.7	7497.5	5289.8
42.5°	6744.5	6768.9	6849.3	6690.2	6539.7	6661.0	6914.7	8043.3	8482.8	8193.8	5694.6
45°	7043.8	7057.2	7113.9	7045.4	6949.3	7222.6	7369.1	8549.0	9216.1	8935.7	6147.5
47.5°	7358.9	7373.1	7431.3	7385.7	7335.2	7747.2	7843.3	9025.5	9918.7	9750.9	6631.1
50°	7748.0	7757.4	7812.6	7729.9	7745.6	8142.6	8267.0	9462.7	10655.1	10483.4	7116.3
52.5°	8278.8	8281.2	8357.6	8282.8	8208.7	8432.4	8631.7	9874.6	11232.5	11151.3	7601.5
55°	8694.7	8719.9	8970.4	8954.6	8912.1	8695.5	8936.5	10266.8	11747.6	11786.2	8116.6
57.5°	8429.3	8527.7	9035.0	9392.6	9740.7	9350.0	9348.4	10708.7	12226.5	12409.2	8682.9
60°	7382.5	7516.4	8263.9	9057.0	10146.3	10488.9	10203.8	11248.2	12710.1	13026.7	9392.6
62.5°	5272.4	5493.0	6505.9	7772.4	9590.3	11243.5	11944.5	12104.4	13367.8	13741.9	10314.9
65°	2665.4	2832.3	3681.4	5207.1	7662.1	10750.4	13836.4	13979.0	14510.6	14843.0	11735.0
67.5°	1619.4	1682.4	2096.7	2896.1	4697.5	8374.1	14453.9	17103.5	16722.3	16898.7	13760.0
70°	1193.3	1239.7	1498.1	1923.4	2701.6	4914.1	12558.8	19333.3	19082.8	19063.1	15256.5
72°	929.4	963.3	1191.7	1554.0	1975.4	2948.1	9102.7	18510.2	19758.6	19659.4	15119.5
72.5°	881.4	911.3	1119.2	1462.6	1866.7	2672.4	8184.3	17954.9	19709.8	19664.9	14942.2
75°	693.9	715.2	828.6	1131.0	1461.1	1516.2	4484.8	13914.4	17484.7	18211.7	13439.4
77.5°	574.2	577.3	637.2	823.1	1138.9	1072.0	2203.0	9654.0	12520.3	13319.7	9520.2
80°	467.9	471.8	500.1	577.3	861.7	793.1	1046.0	5551.3	7010.0	7018.6	4527.3
82.5°	372.6	373.3	404.8	422.2	619.1	567.1	599.4	2606.3	3063.1	2946.5	1627.3
85°	262.3	256.8	395.4	346.6	404.8	363.9	330.8	1031.8	1266.5	1211.4	509.6
87.5°	87.4	90.6	175.6	224.5	236.3	206.4	147.3	395.4	478.1	474.2	161.5
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°	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2	2814.2
2.5°	2828.4	2803.2	2766.2	2725.2	2692.9	2659.8	2635.4	2622.8	2608.6	2596.8	2611.0
5°	2858.3	2811.1	2732.3	2655.1	2598.4	2548.0	2511.8	2492.9	2475.5	2463.7	2465.3
7.5°	2907.2	2830.8	2698.4	2585.8	2507.0	2452.7	2415.7	2403.1	2392.0	2388.9	2392.8
10°	2959.1	2846.5	2653.5	2503.9	2414.1	2369.2	2352.7	2361.3	2369.2	2376.3	2384.2
12.5°	3018.2	2860.7	2588.2	2407.8	2331.4	2314.1	2330.6	2368.4	2396.0	2412.5	2422.8
15°	3095.4	2873.3	2512.6	2311.7	2260.5	2280.2	2336.1	2401.5	2449.5	2480.3	2485.0
17.5°	3166.3	2872.5	2415.7	2214.8	2203.0	2260.5	2344.8	2436.9	2501.5	2544.9	2553.5
20°	3239.5	2851.2	2303.0	2120.3	2144.7	2239.2	2348.7	2459.8	2537.8	2588.2	2600.0
22.5°	3308.1	2814.2	2179.4	2034.5	2095.9	2210.9	2333.8	2446.4	2524.4	2565.3	2577.9
25°	3354.5	2749.6	2054.2	1962.0	2052.6	2176.2	2284.9	2375.5	2433.8	2454.3	2457.4
27.5°	3378.2	2665.4	1936.0	1899.0	2007.7	2119.5	2194.4	2239.2	2255.8	2254.2	2251.1
30°	3381.3	2554.3	1834.4	1847.8	1955.7	2036.0	2071.5	2062.8	2041.6	2005.3	2008.5
32.5°	3371.1	2429.1	1749.3	1799.0	1889.5	1934.4	1936.0	1894.3	1837.6	1780.1	1764.3
35°	3374.2	2306.2	1674.5	1743.8	1809.2	1828.9	1810.8	1749.3	1672.2	1598.1	1582.4
37.5°	3408.9	2199.1	1609.9	1680.0	1720.2	1724.9	1698.9	1634.3	1577.6	1505.2	1498.9
40°	3491.6	2122.7	1548.5	1608.4	1631.2	1633.6	1596.5	1550.9	1555.6	1517.0	1516.2
42.5°	3640.5	2089.6	1494.1	1533.5	1547.7	1552.4	1524.1	1494.9	1535.9	1510.7	1502.0
45°	3832.6	2097.5	1448.5	1460.3	1486.3	1508.3	1491.0	1455.6	1471.3	1361.8	1325.6
47.5°	4054.7	2147.9	1412.2	1397.3	1442.2	1483.9	1457.1	1403.6	1347.6	1239.0	1218.5
50°	4314.7	2225.9	1379.1	1335.0	1394.1	1450.8	1424.0	1347.6	1263.4	1210.6	1203.5
52.5°	4585.6	2321.2	1346.1	1266.5	1333.5	1425.6	1412.2	1335.0	1231.1	1179.1	1169.6
55°	4892.8	2417.3	1304.3	1187.0	1268.1	1413.8	1406.7	1289.4	1206.7	1177.5	1170.4
57.5°	5274.8	2526.7	1249.2	1104.3	1206.7	1371.3	1349.2	1261.8	1181.5	1159.4	1157.0
60°	5772.6	2688.2	1169.6	1016.0	1131.8	1305.9	1301.2	1221.6	1141.3	1125.5	1122.4
62.5°	6519.3	2955.2	1060.2	927.8	1048.3	1194.8	1238.2	1167.3	1098.8	1098.0	1099.5
65°	7677.1	3356.9	941.2	850.6	964.1	1101.1	1164.9	1111.4	1055.4	1071.2	1073.5
67.5°	9019.2	3690.1	824.7	775.0	878.2	1012.1	1098.8	1055.4	997.9	1038.9	1039.7
70°	9465.8	3392.3	722.3	700.2	789.2	926.3	1027.1	994.0	935.7	976.7	972.7
72°	8808.9	2738.6	656.1	643.5	722.3	855.4	963.3	936.5	879.0	906.6	896.3
72.5°	8601.8	2611.0	639.6	629.3	704.1	837.3	946.7	922.3	864.8	888.5	879.0
75°	7673.1	2267.6	549.8	552.1	614.4	749.0	853.8	845.9	786.8	789.2	786.1
77.5°	5565.4	1662.7	463.1	478.9	523.0	658.5	760.1	755.3	690.8	678.9	676.6
80°	2582.7	848.3	377.3	384.4	430.0	550.6	648.2	641.9	589.9	575.0	566.3
82.5°	884.5	403.3	283.5	288.3	333.2	443.4	562.4	558.4	515.1	486.0	467.9
85°	315.8	200.8	198.5	193.8	237.9	348.9	489.9	468.6	404.8	345.0	343.4
87.5°	102.4	85.9	102.4	101.6	138.6	236.3	356.0	303.2	293.8	244.2	239.4
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)