

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: P318137

Luminaire Tested: **GAN-SA3D-750-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318137
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-SA3D-750-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23245 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

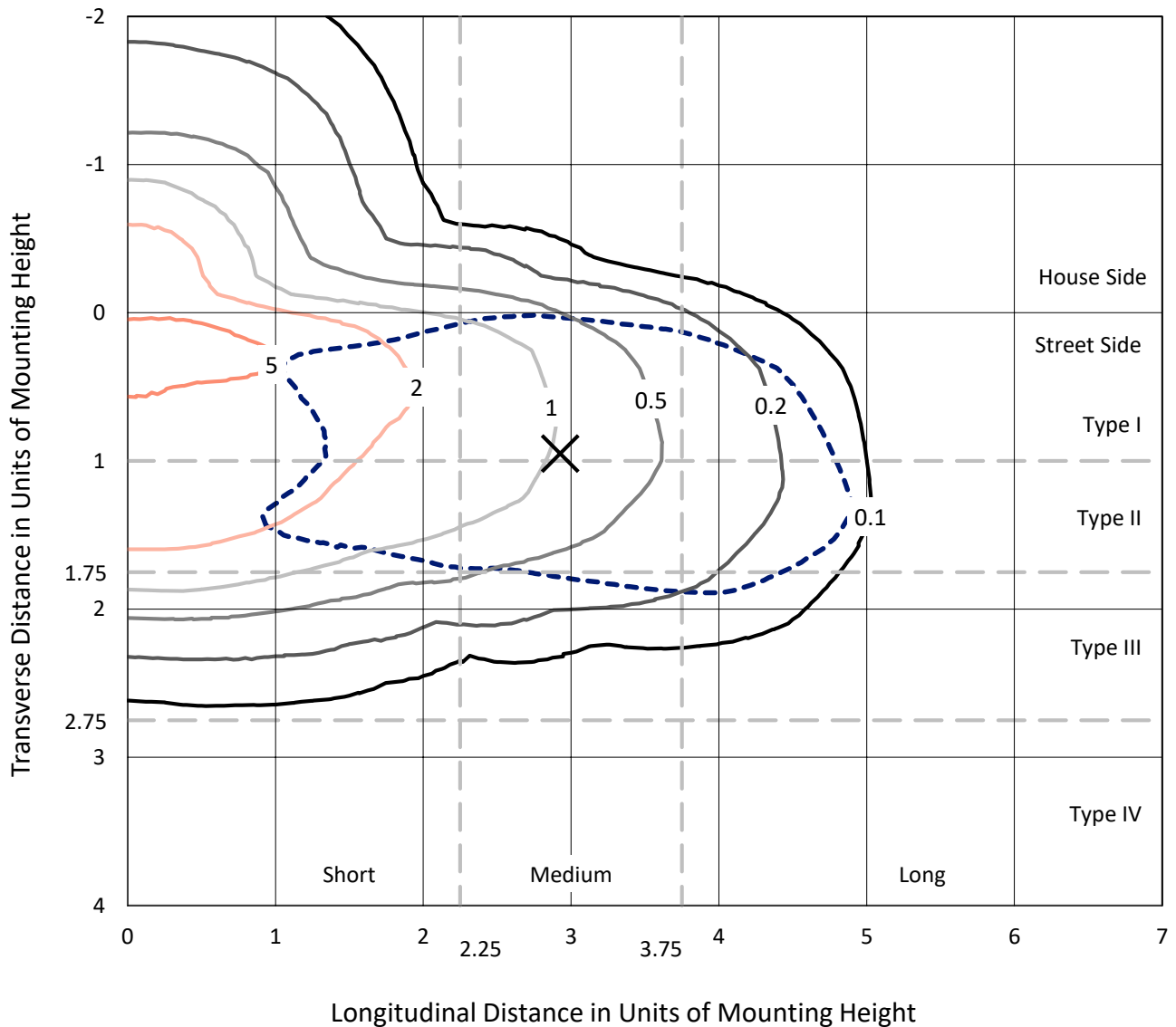
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

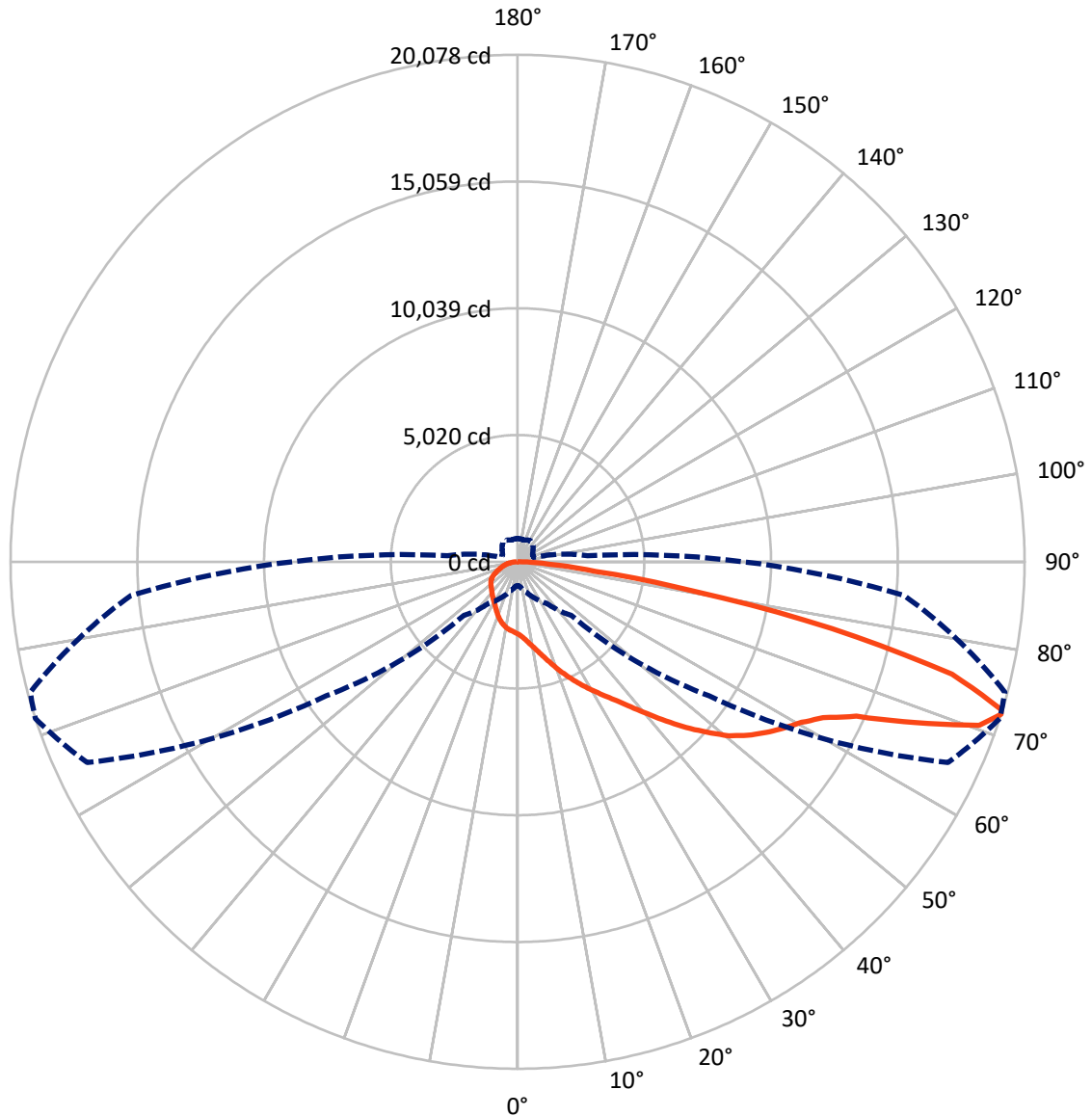
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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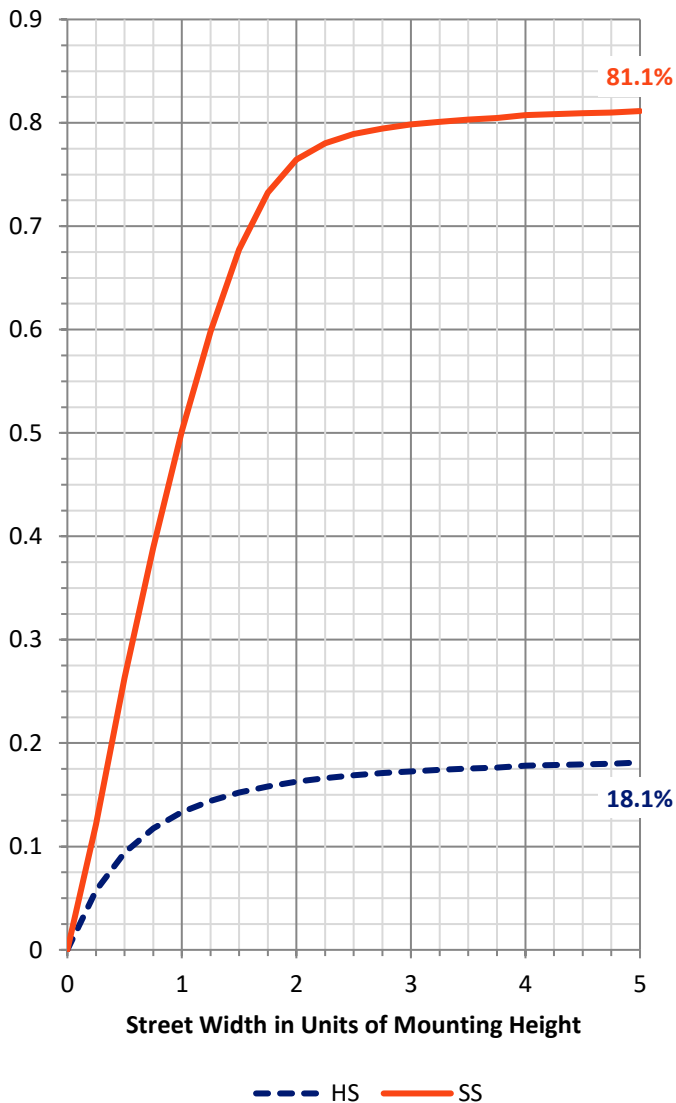
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4312.1	0.0	4312.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	18932.9	0.0	18932.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	23245.0	0.0	23245.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.6	1.2
10°-20°	926.0	4.0
20°-30°	1622.7	7.0
30°-40°	2405.9	10.4
40°-50°	3518.8	15.1
50°-60°	4841.8	20.8
60°-70°	5390.4	23.2
70°-80°	3652.5	15.7
80°-90°	600.3	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°	23245.0	100.0
0°-180°	23245.0	100.0

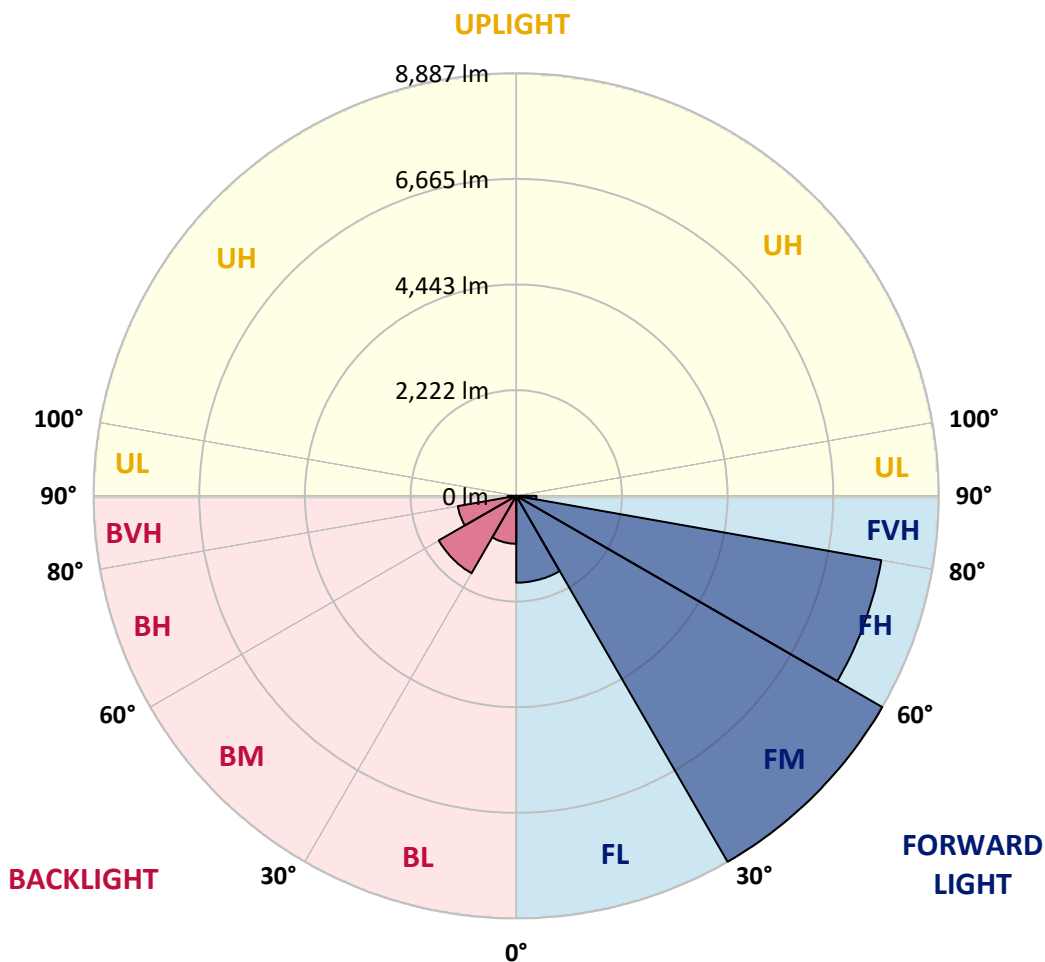


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1827.2	7.9			
FM (30°-60°)	8886.8	38.2			
FH (60°-80°)	7795.4	33.5			G4/12000
FVH (80°-90°)	423.5	1.8			G3/500
BL (0°-30°)	1008.0	4.3	B3/2500		
BM (30°-60°)	1879.7	8.1	B2/2500		
BH (60°-80°)	1247.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	176.9	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°	2859.7	2859.7	2859.7	2859.7	2859.7	2859.7	2859.7	2859.7	2859.7	2859.7	2859.7
2.5°	3159.1	3154.3	3137.5	3137.5	3105.5	3078.2	3027.0	2992.6	2951.8	2937.4	2889.4
5°	3464.8	3466.4	3445.6	3431.2	3384.0	3326.4	3239.1	3159.9	3080.6	3048.6	2950.2
7.5°	3721.7	3718.5	3712.9	3700.9	3656.9	3597.7	3480.0	3362.4	3245.5	3197.5	3027.8
10°	3886.6	3893.8	3898.6	3904.2	3885.8	3843.4	3732.2	3588.9	3436.0	3370.4	3120.7
12.5°	3969.9	3982.7	4005.1	4043.5	4073.9	4069.1	3988.3	3836.2	3654.5	3572.1	3236.7
15°	4018.7	4035.5	4070.7	4139.5	4225.2	4274.0	4252.4	4114.7	3912.2	3810.6	3378.4
17.5°	4049.1	4062.7	4117.1	4209.2	4336.4	4466.1	4522.9	4407.7	4203.6	4087.5	3540.9
20°	4069.9	4080.3	4148.3	4256.4	4421.3	4627.8	4786.2	4757.4	4524.5	4374.1	3710.5
22.5°	4116.3	4125.1	4190.0	4298.8	4481.3	4747.8	5040.0	5083.2	4863.1	4692.6	3892.2
25°	4246.0	4246.0	4300.4	4376.5	4547.7	4851.9	5254.5	5445.8	5208.8	5010.4	4060.3
27.5°	4493.3	4490.9	4510.9	4537.3	4667.0	4957.5	5445.8	5765.9	5567.4	5350.5	4223.6
30°	4786.2	4802.3	4804.7	4791.8	4852.7	5089.6	5622.6	6103.7	5928.4	5694.7	4390.9
32.5°	5163.2	5173.6	5161.6	5119.2	5110.4	5276.9	5796.3	6457.4	6319.0	6054.0	4543.7
35°	5641.8	5621.8	5584.2	5497.8	5415.3	5527.4	5994.8	6811.2	6757.6	6488.6	4754.2
37.5°	6154.9	6155.7	6109.3	5913.2	5799.5	5847.5	6268.5	7212.2	7288.2	7005.7	5024.0
40°	6566.3	6587.9	6616.7	6359.0	6211.7	6278.1	6616.7	7677.2	7915.7	7618.8	5375.3
42.5°	6853.6	6878.4	6960.1	6798.4	6645.5	6768.8	7026.5	8173.4	8620.0	8326.3	5786.7
45°	7157.8	7171.4	7229.0	7159.4	7061.7	7339.4	7488.3	8687.3	9365.2	9080.3	6246.9
47.5°	7477.9	7492.3	7551.5	7505.1	7453.9	7872.5	7970.1	9171.5	10079.1	9908.6	6738.4
50°	7873.3	7882.9	7938.9	7854.9	7870.9	8274.3	8400.7	9615.7	10827.5	10653.0	7231.4
52.5°	8412.7	8415.1	8492.8	8416.7	8341.5	8568.8	8771.3	10034.3	11414.2	11331.7	7724.4
55°	8835.3	8861.0	9115.5	9099.5	9056.2	8836.1	9081.1	10432.9	11937.6	11976.8	8247.9
57.5°	8565.6	8665.7	9181.1	9544.5	9898.2	9501.3	9499.7	10881.9	12424.2	12609.9	8823.3
60°	7501.9	7638.0	8397.5	9203.5	10310.4	10658.6	10368.9	11430.2	12915.7	13237.4	9544.5
62.5°	5357.7	5581.8	6611.1	7898.1	9745.4	11425.4	12137.7	12300.2	13584.0	13964.2	10481.7
65°	2708.5	2878.2	3741.0	5291.3	7786.1	10924.3	14060.2	14205.1	14745.3	15083.1	11924.8
67.5°	1645.6	1709.6	2130.6	2943.0	4773.4	8509.6	14687.7	17380.2	16992.8	17172.1	13982.6
70°	1212.6	1259.8	1522.3	1954.5	2745.3	4993.5	12762.0	19646.0	19391.5	19371.5	15503.3
72°	944.4	978.9	1211.0	1579.1	2007.3	2995.8	9249.9	18809.6	20078.2	19977.4	15364.0
72.5°	895.6	926.0	1137.3	1486.3	1896.9	2715.7	8316.7	18245.4	20028.6	19983.0	15183.9
75°	705.1	726.7	842.0	1149.3	1484.7	1540.7	4557.3	14139.4	17767.5	18506.3	13656.8
77.5°	583.5	586.7	647.5	836.4	1157.3	1089.3	2238.7	9810.2	12722.8	13535.1	9674.1
80°	475.4	479.4	508.2	586.7	875.6	806.0	1062.9	5641.0	7123.3	7132.1	4600.6
82.5°	378.6	379.4	411.4	429.0	629.1	576.3	609.1	2648.4	3112.7	2994.2	1653.6
85°	266.5	260.9	401.8	352.2	411.4	369.8	336.2	1048.5	1287.0	1231.0	517.8
87.5°	88.8	92.0	178.5	228.1	240.1	209.7	149.7	401.8	485.8	481.8	164.1
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°	2859.7	2859.7	2859.7	2859.7	2859.7	2859.7	2859.7	2859.7	2859.7	2859.7	2859.7
2.5°	2874.1	2848.5	2810.9	2769.3	2736.5	2702.9	2678.1	2665.3	2650.8	2638.8	2653.2
5°	2904.6	2856.5	2776.5	2698.1	2640.4	2589.2	2552.4	2533.2	2515.6	2503.6	2505.2
7.5°	2954.2	2876.5	2742.1	2627.6	2547.6	2492.4	2454.8	2441.9	2430.7	2427.5	2431.5
10°	3007.0	2892.6	2696.5	2544.4	2453.2	2407.5	2390.7	2399.5	2407.5	2414.7	2422.7
12.5°	3067.0	2907.0	2630.0	2446.7	2369.1	2351.5	2368.3	2406.7	2434.7	2451.5	2462.0
15°	3145.5	2919.8	2553.2	2349.1	2297.1	2317.1	2373.9	2440.3	2489.2	2520.4	2525.2
17.5°	3217.5	2919.0	2454.8	2250.7	2238.7	2297.1	2382.7	2476.4	2542.0	2586.0	2594.8
20°	3291.9	2897.4	2340.3	2154.6	2179.4	2275.5	2386.7	2499.6	2578.8	2630.0	2642.0
22.5°	3361.6	2859.7	2214.6	2067.4	2129.8	2246.7	2371.5	2486.0	2565.2	2606.8	2619.6
25°	3408.8	2794.1	2087.4	1993.7	2085.8	2211.4	2321.9	2413.9	2473.2	2494.0	2497.2
27.5°	3432.8	2708.5	1967.3	1929.7	2040.2	2153.8	2229.8	2275.5	2292.3	2290.7	2287.5
30°	3436.0	2595.6	1864.1	1877.7	1987.3	2069.0	2105.0	2096.2	2074.6	2037.8	2041.0
32.5°	3425.6	2468.4	1777.6	1828.1	1920.1	1965.7	1967.3	1924.9	1867.3	1808.8	1792.8
35°	3428.8	2343.5	1701.6	1772.0	1838.5	1858.5	1840.1	1777.6	1699.2	1624.0	1608.0
37.5°	3464.0	2234.6	1636.0	1707.2	1748.0	1752.8	1726.4	1660.8	1603.2	1529.5	1523.1
40°	3548.1	2157.0	1573.5	1634.4	1657.6	1660.0	1622.4	1575.9	1580.7	1541.5	1540.7
42.5°	3699.3	2123.4	1518.3	1558.3	1572.7	1577.5	1548.7	1519.1	1560.7	1535.1	1526.3
45°	3894.6	2131.4	1471.9	1483.9	1510.3	1532.7	1515.1	1479.1	1495.1	1383.8	1347.0
47.5°	4120.3	2182.6	1435.1	1419.9	1465.5	1507.9	1480.7	1426.3	1369.4	1259.0	1238.2
50°	4384.5	2261.9	1401.5	1356.6	1416.7	1474.3	1447.1	1369.4	1283.8	1230.2	1223.0
52.5°	4659.8	2358.7	1367.8	1287.0	1355.0	1448.7	1435.1	1356.6	1251.0	1198.2	1188.6
55°	4971.9	2456.4	1325.4	1206.2	1288.6	1436.7	1429.5	1310.2	1226.2	1196.6	1189.4
57.5°	5360.1	2567.6	1269.4	1122.1	1226.2	1393.5	1371.0	1282.2	1200.6	1178.2	1175.8
60°	5866.0	2731.7	1188.6	1032.5	1150.1	1327.0	1322.2	1241.4	1159.7	1143.7	1140.5
62.5°	6624.7	3003.0	1077.3	942.8	1065.3	1214.2	1258.2	1186.2	1116.5	1115.7	1117.3
65°	7801.3	3411.2	956.4	864.4	979.7	1118.9	1183.8	1129.3	1072.5	1088.5	1090.9
67.5°	9165.1	3749.8	838.0	787.6	892.4	1028.5	1116.5	1072.5	1014.1	1055.7	1056.5
70°	9618.9	3447.2	733.9	711.5	802.0	941.2	1043.7	1010.1	950.8	992.5	988.5
72°	8951.4	2782.9	666.7	653.9	733.9	869.2	978.9	951.6	893.2	921.2	910.8
72.5°	8740.9	2653.2	649.9	639.5	715.5	850.8	962.1	937.2	878.8	902.8	893.2
75°	7797.3	2304.3	558.7	561.1	624.3	761.2	867.6	859.6	799.6	802.0	798.8
77.5°	5655.5	1689.6	470.6	486.6	531.4	669.1	772.4	767.6	701.9	689.9	687.5
80°	2624.4	862.0	383.4	390.6	437.0	559.5	658.7	652.3	599.5	584.3	575.5
82.5°	898.8	409.8	288.1	292.9	338.6	450.6	571.5	567.5	523.4	493.8	475.4
85°	321.0	204.1	201.7	196.9	241.7	354.6	497.8	476.2	411.4	350.6	349.0
87.5°	104.0	87.2	104.0	103.2	140.9	240.1	361.8	308.1	298.5	248.1	243.3
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)