

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: P317736

Luminaire Tested: **GAN-SA2D-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14783 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

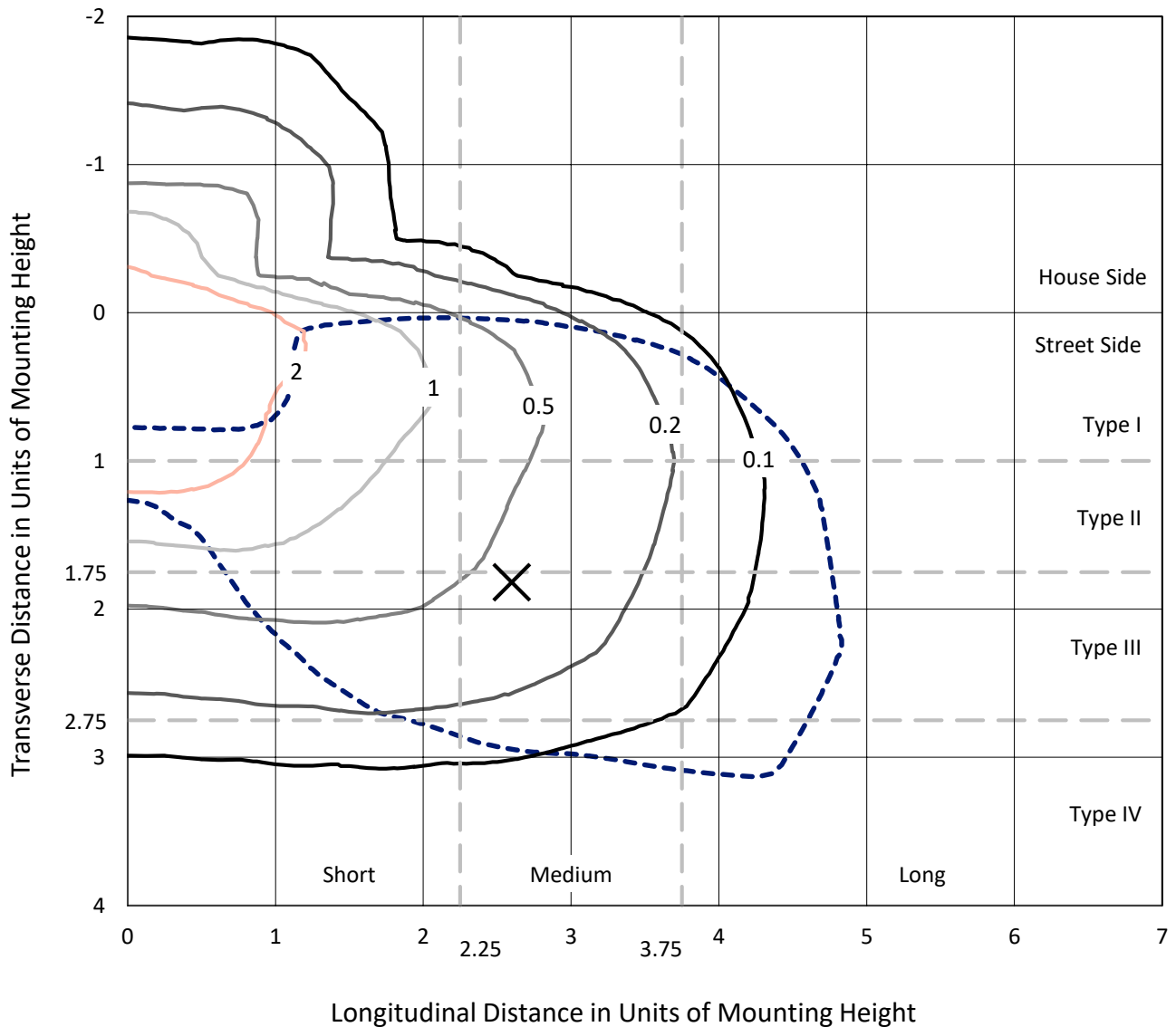
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

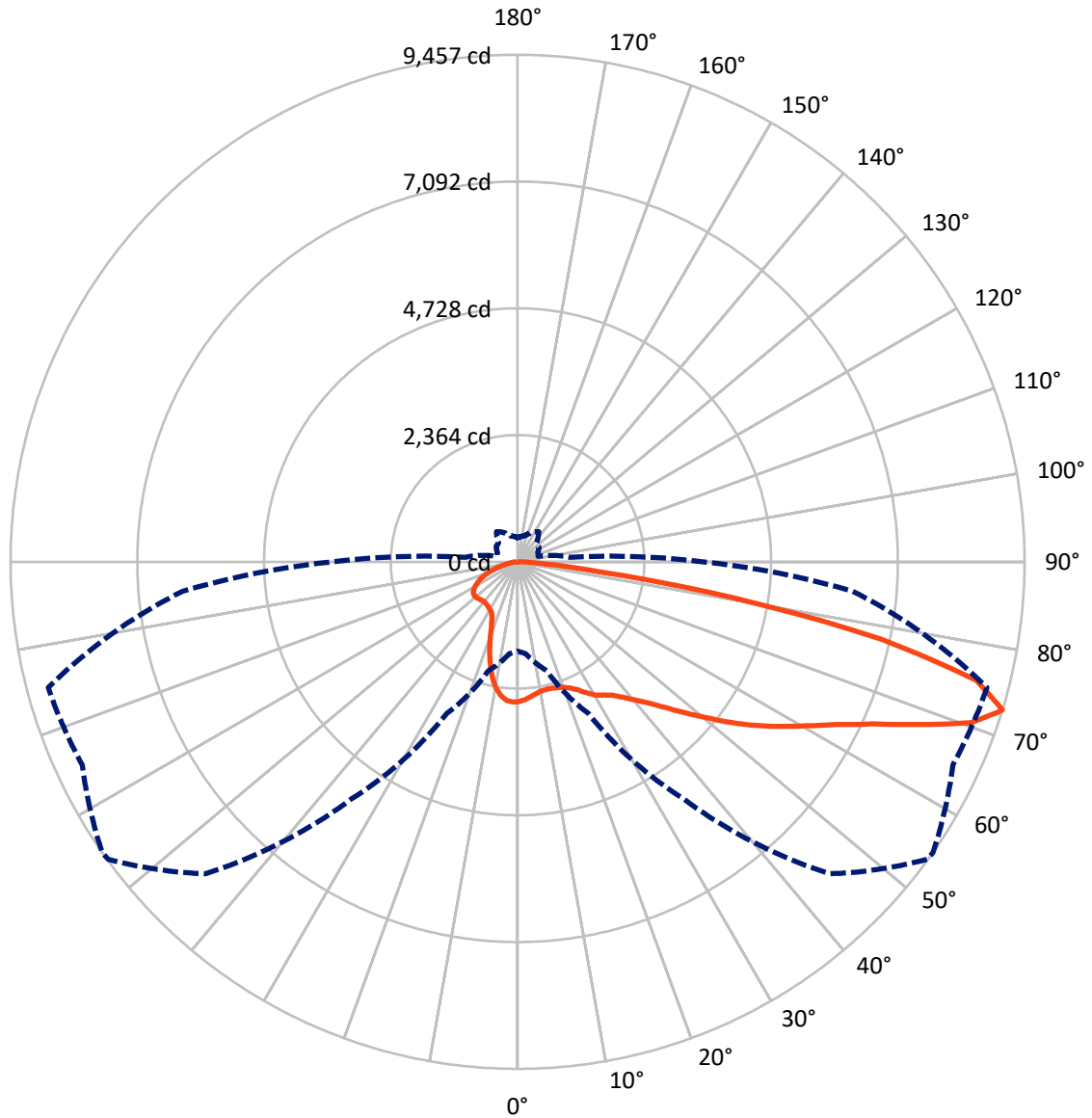
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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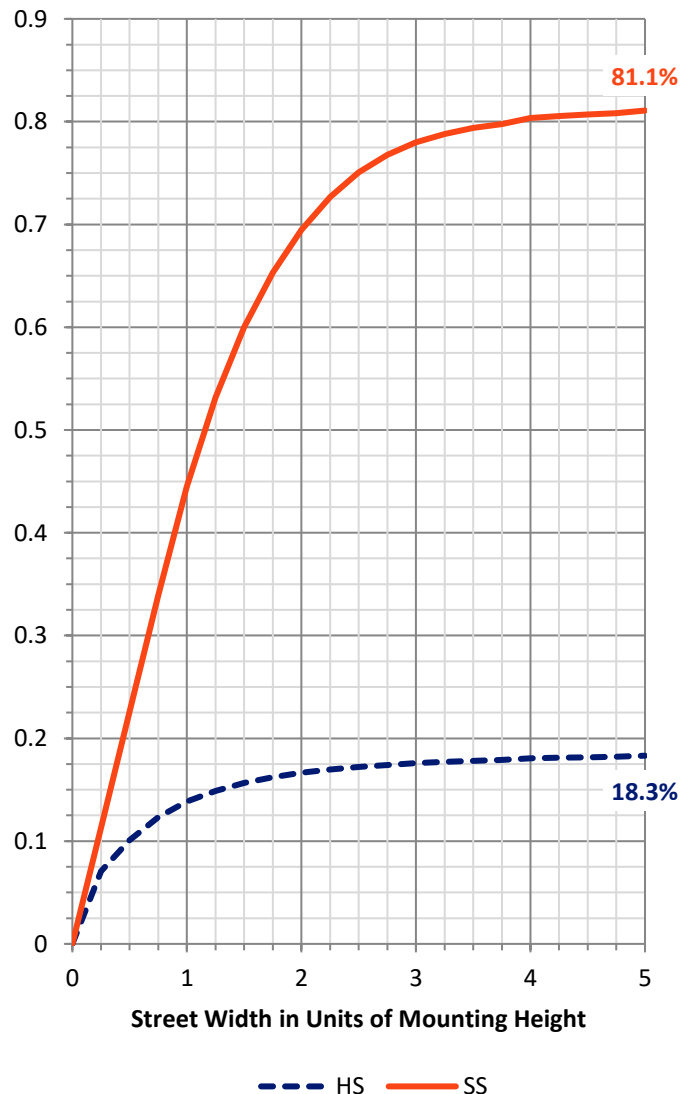
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2747.7	0.0	2747.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	12035.3	0.0	12035.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	14783.0	0.0	14783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.9	1.6
10°-20°	628.2	4.2
20°-30°	1035.7	7.0
30°-40°	1532.0	10.4
40°-50°	2138.4	14.5
50°-60°	2784.2	18.8
60°-70°	3421.8	23.1
70°-80°	2682.2	18.1
80°-90°	324.6	2.2
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°	14783.0	100.0
0°-180°	14783.0	100.0

Coefficient of Utilization

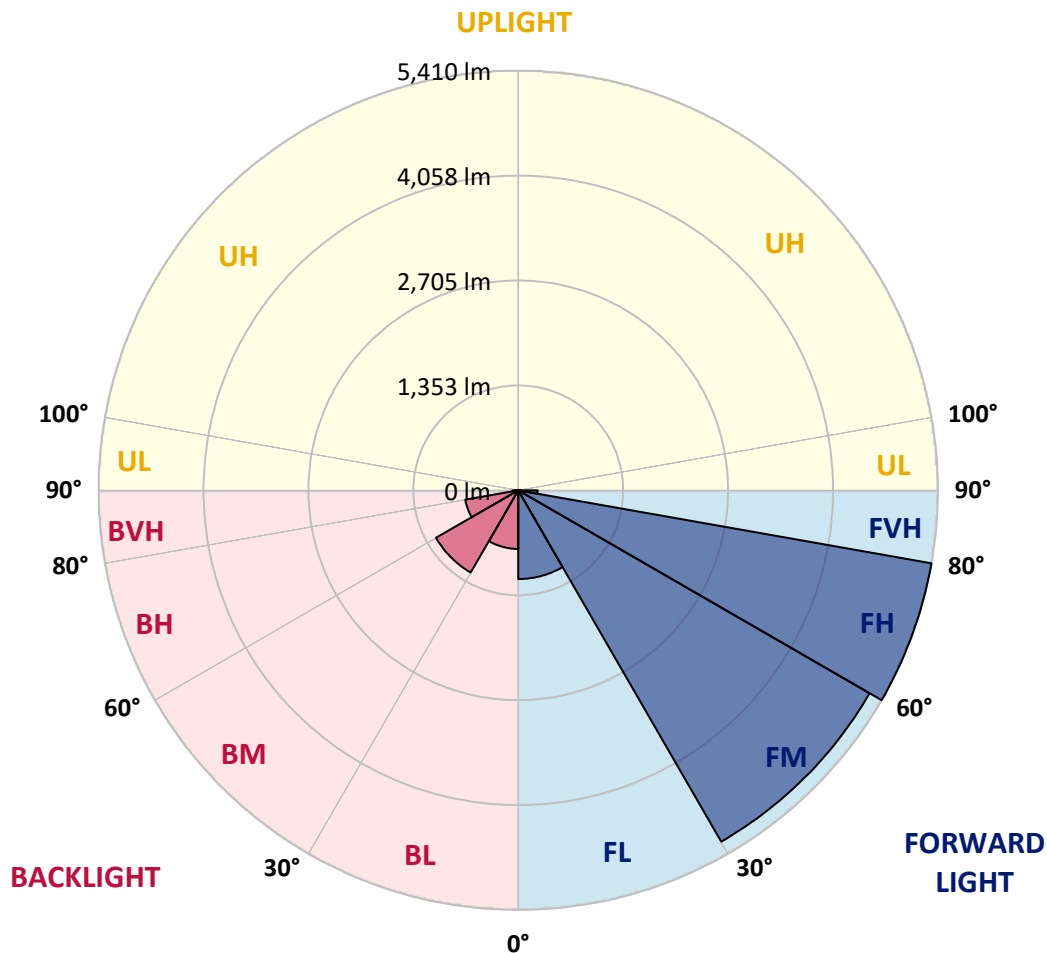


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1143.8	7.7			
FM (30°-60°)	5230.5	35.4			
FH (60°-80°)	5410.1	36.6			G3/7500
FVH (80°-90°)	251.0	1.7			G3/500
BL (0°-30°)	756.0	5.1	B2/1000		
BM (30°-60°)	1224.1	8.3	B2/2500		
BH (60°-80°)	693.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	73.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2607.4	2607.4	2607.4	2607.4	2607.4	2607.4	2607.4	2607.4	2607.4	2607.4	2607.4
2.5°	2522.5	2516.5	2524.0	2534.5	2546.0	2561.5	2570.5	2574.4	2589.9	2595.9	2608.9
5°	2405.7	2402.7	2415.2	2433.1	2458.6	2494.6	2523.5	2529.0	2570.0	2598.9	2625.4
7.5°	2320.8	2320.8	2335.3	2356.7	2385.2	2433.6	2474.6	2482.1	2551.5	2613.9	2662.8
10°	2253.4	2255.9	2272.9	2298.3	2331.8	2383.2	2437.6	2446.1	2546.5	2648.8	2726.7
12.5°	2208.5	2214.4	2229.9	2252.9	2294.3	2356.7	2425.7	2437.1	2557.0	2698.8	2803.6
15°	2236.9	2246.9	2248.4	2257.9	2280.9	2348.8	2432.6	2444.6	2579.4	2749.7	2891.0
17.5°	2361.7	2365.2	2349.8	2329.8	2318.8	2362.2	2453.6	2466.1	2606.4	2800.1	2974.9
20°	2551.5	2549.5	2516.0	2462.1	2406.2	2413.2	2488.1	2501.0	2642.9	2844.6	3058.8
22.5°	2791.1	2784.2	2732.7	2633.4	2538.0	2498.1	2548.5	2559.5	2697.8	2908.0	3148.7
25°	3081.7	3066.3	2998.4	2865.0	2724.7	2621.9	2639.4	2649.8	2777.7	2978.9	3231.0
27.5°	3388.3	3372.8	3286.5	3125.2	2938.4	2778.2	2764.7	2773.7	2868.5	3031.3	3292.0
30°	3708.9	3692.4	3613.5	3432.8	3165.1	2939.9	2881.5	2885.0	2932.5	3059.8	3341.9
32.5°	4030.9	4015.5	3927.1	3717.4	3411.3	3113.7	2965.9	2961.4	2970.9	3089.2	3398.3
35°	4357.5	4363.5	4260.1	4027.9	3683.9	3306.9	3065.8	3056.3	3035.3	3149.7	3478.2
37.5°	4707.0	4703.0	4569.2	4326.5	3969.0	3516.6	3209.1	3207.6	3135.2	3264.0	3603.5
40°	4940.7	4943.2	4861.8	4632.1	4257.1	3748.8	3392.8	3389.3	3294.5	3435.3	3767.8
42.5°	5032.1	5048.5	5069.5	4923.7	4558.7	4018.0	3612.0	3607.0	3516.6	3680.9	3961.0
45°	5038.5	5071.5	5201.3	5182.9	4864.3	4326.0	3892.1	3878.2	3813.2	4007.5	4191.7
47.5°	4982.6	5016.6	5232.3	5337.1	5137.4	4651.1	4219.7	4208.7	4152.8	4415.9	4441.4
50°	4860.3	4892.8	5168.4	5412.5	5362.1	4963.7	4597.2	4568.2	4538.2	4887.8	4727.0
52.5°	4631.1	4693.5	5083.0	5430.5	5496.4	5241.3	4994.1	4975.1	4991.6	5385.6	5013.1
55°	4088.4	4158.3	4862.8	5415.5	5595.8	5474.4	5391.1	5390.1	5475.4	5907.9	5320.2
57.5°	3784.3	3833.7	4414.4	5390.1	5713.6	5706.1	5784.0	5793.5	5959.8	6476.6	5641.7
60°	3612.5	3664.4	4187.2	5295.7	5896.4	6005.7	6185.0	6203.9	6452.1	7106.2	6028.7
62.5°	3456.2	3513.2	4046.4	5103.5	6111.6	6434.1	6665.3	6682.3	6973.4	7753.3	6402.7
65°	3189.1	3253.5	3840.2	4977.1	6307.3	6992.9	7276.0	7287.4	7572.1	8431.4	6688.8
67.5°	2811.6	2870.5	3451.2	4698.0	6452.1	7671.4	8087.8	8094.3	8165.7	8910.2	6835.1
70°	2370.7	2393.2	2897.0	4121.8	6280.8	8306.0	8977.6	8979.1	8707.0	9216.8	6811.1
72.5°	1665.7	1718.6	2103.1	3120.2	5397.6	8228.6	9439.5	9456.5	8958.6	9062.0	6266.9
75°	1021.6	1077.5	1319.2	1890.9	3424.3	6471.6	8721.5	8839.3	8486.8	8079.9	5119.4
77.5°	683.1	704.0	860.8	1102.5	1551.4	3723.4	6705.3	6926.9	7050.3	5892.4	3274.0
80°	381.0	420.9	570.7	685.1	690.0	1479.5	4020.5	4072.4	3922.6	2346.3	1010.1
82.5°	201.7	223.7	381.0	402.4	376.5	495.3	1498.4	1499.9	1253.3	629.1	300.1
85°	156.3	174.8	261.1	245.7	192.2	219.7	494.3	521.3	426.4	257.6	97.9
87.5°	77.9	96.9	177.3	155.8	75.4	62.9	176.8	188.7	168.3	100.9	35.5
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°	2607.4	2607.4	2607.4	2607.4	2607.4	2607.4	2607.4	2607.4	2607.4	2607.4	2607.4
2.5°	2613.9	2618.4	2623.9	2617.9	2615.9	2607.9	2594.4	2591.4	2584.4	2584.9	2588.9
5°	2636.9	2644.4	2641.4	2618.4	2590.9	2552.5	2512.5	2478.6	2456.1	2454.6	2453.1
7.5°	2680.8	2685.8	2662.3	2596.9	2520.0	2431.1	2347.3	2273.9	2229.4	2218.4	2215.9
10°	2749.7	2748.7	2684.3	2552.5	2399.2	2240.4	2105.6	2003.7	1944.3	1926.8	1922.3
12.5°	2826.6	2815.1	2691.8	2471.6	2228.4	2008.2	1837.5	1724.1	1662.2	1642.2	1637.2
15°	2906.0	2877.5	2673.3	2350.8	2018.7	1758.1	1578.8	1474.0	1440.5	1429.5	1427.5
17.5°	2979.9	2925.0	2620.4	2187.0	1779.5	1508.9	1369.1	1327.2	1335.2	1349.6	1350.1
20°	3052.3	2956.9	2535.5	1980.3	1527.4	1303.7	1256.3	1287.2	1325.2	1354.6	1358.6
22.5°	3123.7	2979.4	2426.2	1741.6	1301.7	1188.4	1221.8	1278.2	1321.7	1353.6	1359.1
25°	3183.6	2984.9	2275.4	1486.9	1144.9	1144.9	1205.3	1258.8	1301.7	1333.2	1338.7
27.5°	3205.6	2947.9	2062.7	1251.3	1066.0	1124.9	1182.4	1226.8	1263.3	1296.7	1302.7
30°	3214.1	2879.5	1817.0	1062.0	1033.6	1103.5	1151.4	1189.4	1223.8	1255.3	1260.8
32.5°	3215.6	2797.1	1556.4	954.7	1011.1	1081.0	1113.0	1146.4	1183.4	1195.9	1197.8
35°	3225.1	2699.8	1281.7	899.8	990.1	1060.0	1085.5	1109.5	1049.6	1054.0	1058.0
37.5°	3252.5	2603.4	1052.0	868.8	976.7	1049.1	1079.5	992.6	945.7	934.7	933.2
40°	3303.9	2500.6	881.8	843.8	971.7	1054.5	1041.1	926.7	845.8	785.4	776.4
42.5°	3375.3	2389.7	772.9	827.4	975.2	1081.0	987.6	863.3	729.0	690.0	685.1
45°	3455.7	2273.4	714.0	815.9	987.1	1101.5	976.7	778.9	674.6	645.1	642.6
47.5°	3533.6	2131.1	683.6	810.9	1003.6	1085.0	930.2	753.0	648.6	633.1	634.6
50°	3623.0	2002.7	665.1	805.4	1018.1	1074.5	877.8	739.5	638.6	657.6	677.6
52.5°	3698.4	1869.9	648.6	794.4	1023.6	1056.0	864.3	742.0	638.6	675.1	694.0
55°	3787.8	1769.6	629.6	771.4	1013.1	1003.6	854.8	757.0	646.1	623.1	625.1
57.5°	3903.1	1736.6	608.7	735.5	978.2	927.2	850.3	771.4	641.6	627.1	632.1
60°	4062.9	1771.6	600.2	688.6	923.7	867.3	850.8	763.9	610.2	585.2	585.7
62.5°	4215.2	1810.5	599.7	659.1	856.8	813.9	839.3	739.5	594.2	579.7	585.2
65°	4265.1	1771.1	575.7	626.1	781.4	750.0	818.4	713.5	582.2	560.2	559.2
67.5°	4198.2	1648.7	527.3	572.7	695.0	675.6	790.9	682.6	563.2	545.2	542.3
70°	3999.5	1375.6	467.4	502.3	596.7	591.7	747.5	646.6	537.8	522.3	509.3
72.5°	3464.7	980.1	394.0	417.9	485.8	501.8	687.6	599.7	501.8	468.4	448.4
75°	2845.6	725.5	323.6	328.5	369.0	412.4	605.2	544.7	459.4	402.4	387.0
77.5°	1742.6	443.9	257.6	259.6	264.6	329.0	498.3	483.3	405.4	335.5	324.6
80°	564.2	242.2	186.2	195.7	180.8	241.2	385.5	411.4	348.0	280.6	268.6
82.5°	214.7	141.3	125.8	132.3	125.3	161.8	281.1	329.5	285.1	230.7	187.7
85°	103.9	79.9	74.4	83.4	77.4	82.9	179.8	242.7	216.2	150.3	139.8
87.5°	36.9	35.5	28.5	38.4	33.0	29.5	54.9	122.3	142.8	103.4	92.4
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)