

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: P529750

Luminaire Tested: **GLAN-SA4D-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4D-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21370 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

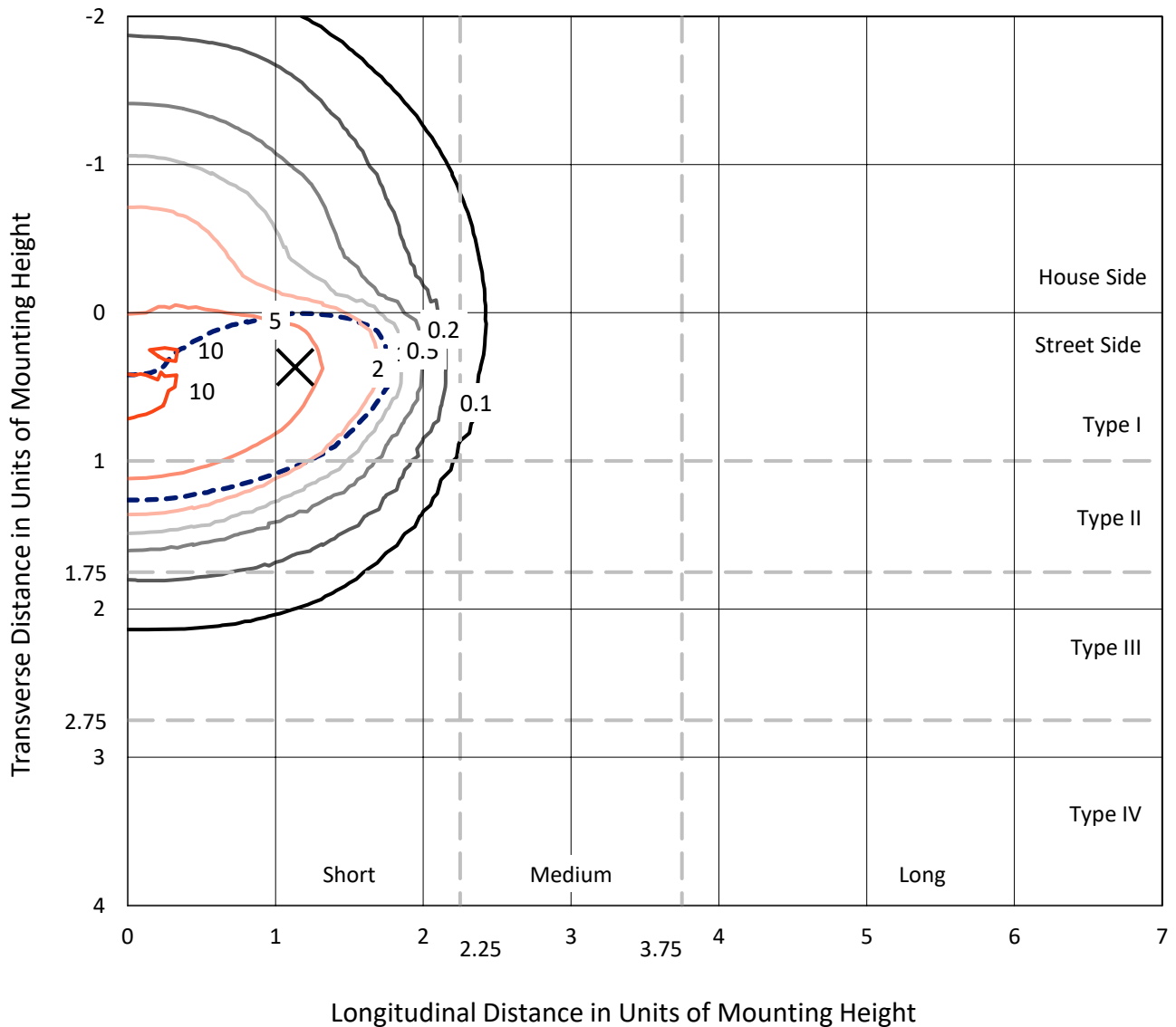
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

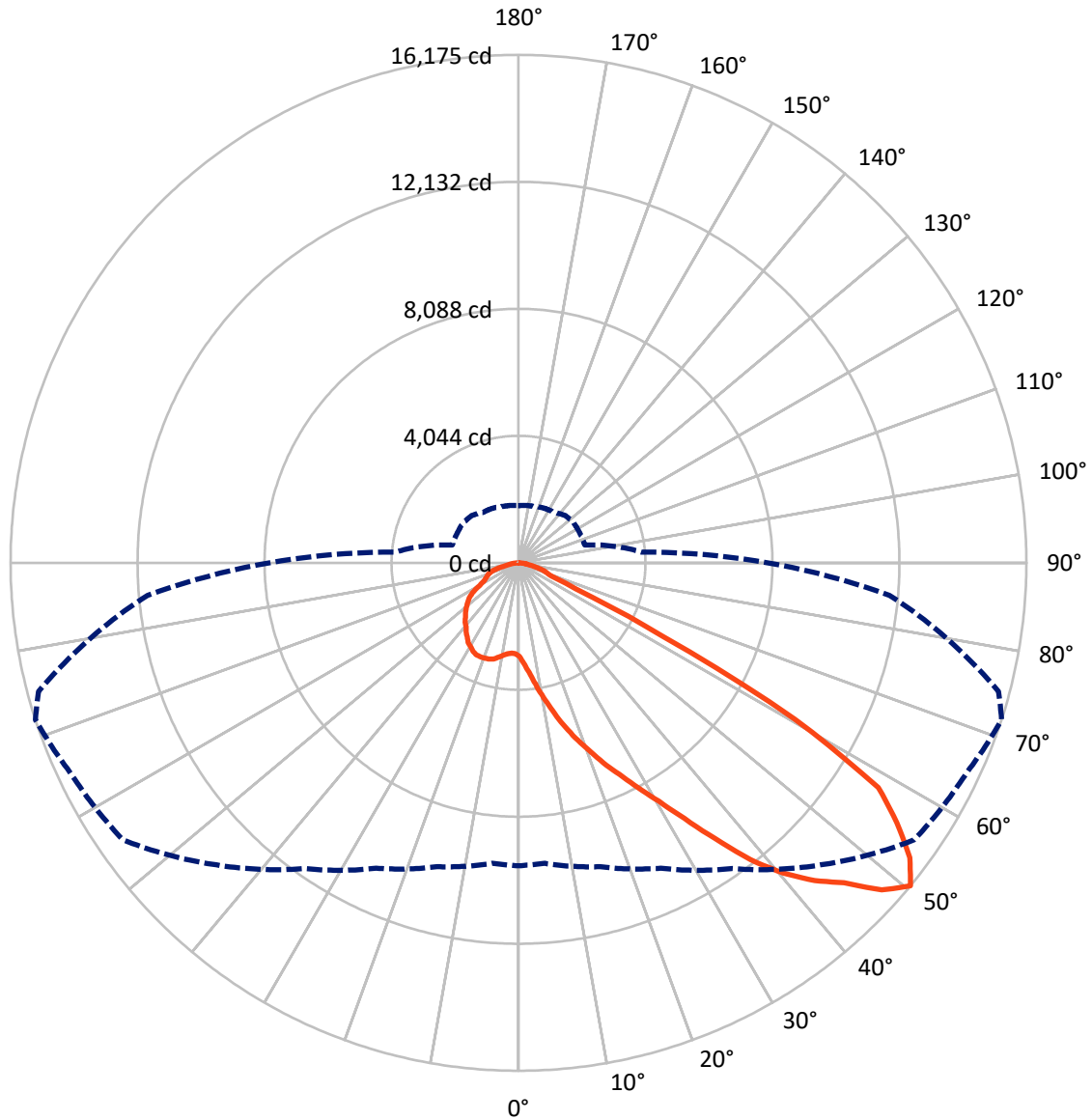
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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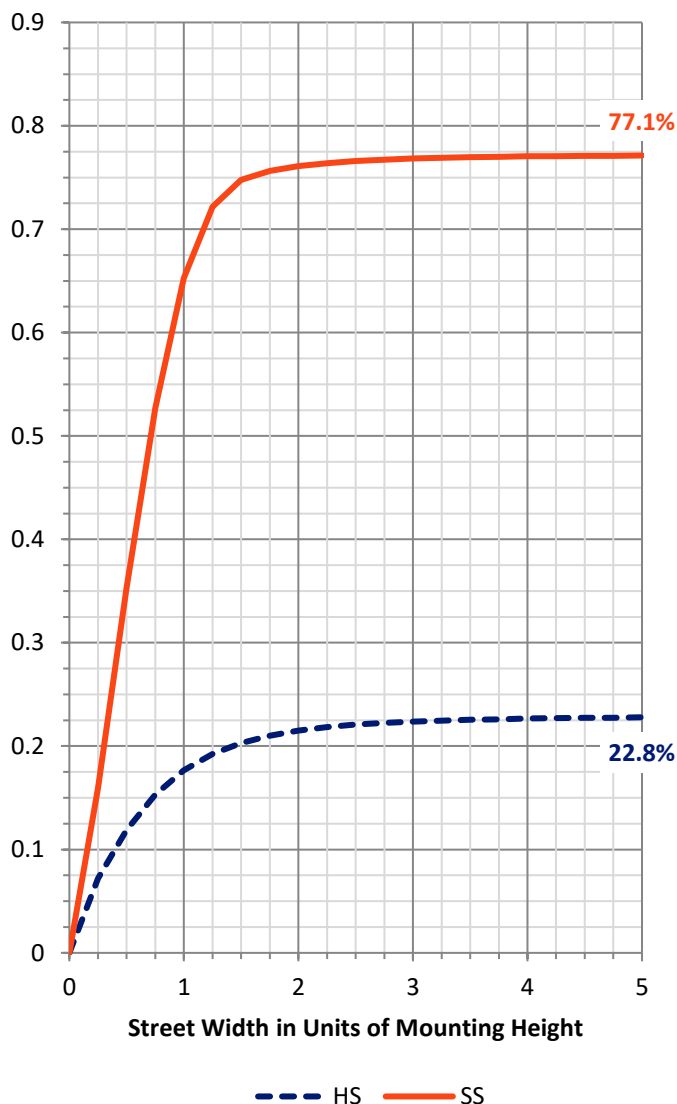
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4896.0	0.0	4896.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	16474.0	0.0	16474.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	21370.0	0.0	21370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.9	1.6
10°-20°	1308.1	6.1
20°-30°	2536.4	11.9
30°-40°	4201.9	19.7
40°-50°	5879.3	27.5
50°-60°	4960.0	23.2
60°-70°	1511.8	7.1
70°-80°	530.4	2.5
80°-90°	92.2	0.4
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°	21370.0	100.0
0°-180°	21370.0	100.0

Coefficient of Utilization



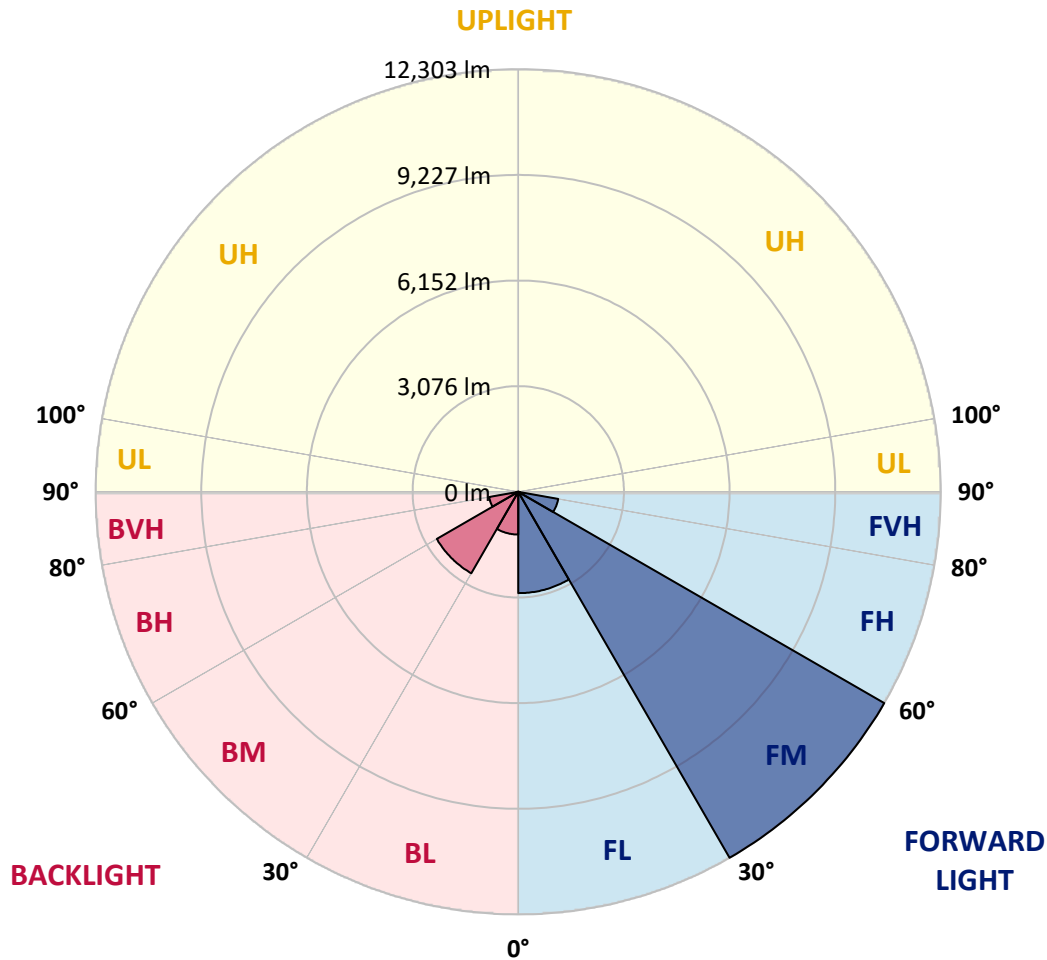
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2949.8	13.8			
FM (30°-60°)	12303.3	57.6			
FH (60°-80°)	1179.6	5.5			G1/1800
FVH (80°-90°)	41.3	0.2			G1/100
BL (0°-30°)	1244.6	5.8	B3/2500		
BM (30°-60°)	2737.9	12.8	B3/5000		
BH (60°-80°)	862.6	4.0	B2/1000		G2/1000
BVH (80°-90°)	50.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9
2.5°	3826.4	3802.6	3731.2	3707.4	3622.8	3469.4	3416.5	3260.5	3194.4	3133.5	3062.1
5°	4839.1	4728.1	4720.2	4585.3	4389.6	4275.9	3937.4	3710.0	3501.1	3395.3	3199.7
7.5°	5484.4	5487.0	5487.0	5375.9	5219.9	4931.7	4627.6	4217.7	3903.1	3747.0	3413.8
10°	6097.9	6045.0	6015.9	6005.3	5899.5	5619.2	5294.0	4786.3	4355.2	4172.8	3575.2
12.5°	6531.5	6486.6	6552.7	6518.3	6441.6	6259.2	5952.4	5373.3	4833.9	4587.9	3834.3
15°	6737.8	6769.5	6822.4	6917.6	6883.2	6814.5	6476.0	5976.2	5349.5	5071.9	4064.4
17.5°	7055.1	6967.8	7031.3	7150.3	7245.5	7213.8	7020.7	6412.5	5859.9	5518.7	4373.7
20°	7277.2	7227.0	7258.7	7396.2	7467.6	7647.4	7547.0	6983.7	6349.1	5989.4	4738.7
22.5°	7911.9	7837.8	7734.7	7755.9	7782.3	7909.2	7933.0	7610.4	6917.6	6536.8	5085.1
25°	8694.6	8625.8	8504.2	8379.9	8303.2	8279.4	8361.4	8102.3	7462.3	7068.3	5457.9
27.5°	9556.7	9440.3	9363.6	9107.1	8900.9	8869.1	8829.5	8689.3	8107.6	7681.8	5878.4
30°	10394.9	10302.4	10199.2	9789.4	9575.2	9540.8	9345.1	9384.8	8808.3	8335.0	6354.4
32.5°	11029.6	11037.5	10802.1	10492.8	10291.8	10109.3	10037.9	10151.6	9707.4	9326.6	6885.9
35°	11542.6	11566.4	11341.6	11061.3	10844.5	10971.4	10939.6	10992.5	10781.0	10315.6	7504.6
37.5°	12042.3	11923.3	11682.7	11547.8	11434.1	11643.0	11912.8	11957.7	11997.4	11450.0	8223.9
40°	12124.3	12134.9	11994.7	12089.9	11947.1	12261.8	12888.5	12830.4	12991.7	12513.0	9004.0
42.5°	12008.0	12031.8	12087.3	12222.2	12565.9	12944.1	13874.9	13636.9	13832.6	13406.8	9762.9
45°	11817.6	11719.7	11788.5	12301.5	12896.5	13737.4	14776.6	14591.5	14528.0	14171.0	10667.3
47.5°	10907.9	11008.4	11222.6	11854.6	12748.4	13874.9	15416.5	15374.2	15564.6	15313.4	11489.7
50°	9646.6	9606.9	10019.4	10730.7	11883.7	13605.1	15382.1	15765.6	16175.4	15826.4	11857.2
52.5°	7224.3	7435.9	7790.2	8673.4	10318.2	12134.9	14631.2	15271.1	15604.3	15530.2	11561.1
55°	4566.8	4630.2	4844.4	5894.2	7375.1	9739.1	12542.1	14025.6	14620.6	14898.2	11288.7
57.5°	2218.6	2099.6	2361.4	3204.9	4260.0	6550.0	9673.0	12216.9	13510.0	14012.4	10696.4
60°	1158.2	1203.2	1306.3	1607.8	2202.7	3400.6	6029.1	8141.9	10117.3	10889.4	8107.6
62.5°	959.9	975.8	1044.5	1195.2	1465.0	1956.8	3078.0	3969.2	5159.1	5854.6	4611.7
65°	814.5	822.4	896.4	996.9	1168.8	1377.7	1584.0	1658.0	2007.1	2059.9	1639.5
67.5°	679.6	687.5	766.9	862.1	973.1	1028.6	1081.5	1076.2	1115.9	1100.0	1097.4
70°	523.6	531.5	613.5	714.0	769.5	737.8	901.7	938.7	954.6	967.8	989.0
72.5°	378.1	394.0	457.5	528.9	499.8	573.8	743.1	798.6	819.7	827.7	854.1
75°	275.0	280.3	296.2	275.0	317.3	399.3	523.6	592.3	618.8	626.7	666.4
77.5°	121.6	124.3	126.9	158.7	203.6	248.6	312.0	367.6	404.6	415.2	425.7
80°	63.5	66.1	82.0	108.4	145.4	182.5	227.4	259.1	282.9	285.6	296.2
82.5°	39.7	42.3	58.2	76.7	103.1	134.9	166.6	193.0	211.5	214.2	216.8
85°	18.5	23.8	34.4	47.6	68.8	87.3	89.9	76.7	82.0	84.6	79.3
87.5°	5.3	7.9	10.6	7.9	10.6	10.6	13.2	15.9	15.9	15.9	18.5
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°	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9
2.5°	3022.5	2998.7	2906.1	2871.8	2781.8	2797.7	2750.1	2747.5	2736.9	2734.3	2731.6
5°	3096.5	3022.5	2911.4	2826.8	2776.6	2771.3	2736.9	2736.9	2747.5	2755.4	2736.9
7.5°	3218.2	3133.5	2945.8	2866.5	2821.5	2813.6	2789.8	2771.3	2795.1	2787.1	2766.0
10°	3358.3	3210.2	3011.9	2943.2	2869.1	2850.6	2850.6	2858.5	2818.9	2832.1	2810.9
12.5°	3514.3	3316.0	3096.5	3017.2	2929.9	2919.4	2914.1	2855.9	2877.0	2866.5	2813.6
15°	3712.7	3437.6	3204.9	3070.1	2996.0	2948.4	2879.7	2869.1	2855.9	2829.4	2805.6
17.5°	3926.8	3569.9	3255.2	3085.9	2974.9	2940.5	2887.6	2832.1	2792.4	2797.7	2779.2
20°	4109.3	3691.5	3273.7	3101.8	2959.0	2892.9	2810.9	2776.6	2734.3	2731.6	2729.0
22.5°	4326.1	3855.5	3300.1	3059.5	2911.4	2842.7	2787.1	2726.3	2697.2	2660.2	2678.7
25°	4585.3	3918.9	3305.4	3035.7	2877.0	2755.4	2726.3	2660.2	2649.6	2596.7	2607.3
27.5°	4773.0	3953.3	3263.1	2961.7	2797.7	2705.2	2652.3	2604.7	2586.2	2546.5	2535.9
30°	5024.3	4006.2	3173.2	2869.1	2718.4	2615.3	2583.5	2572.9	2520.1	2477.7	2472.5
32.5°	5309.8	4040.6	3115.0	2773.9	2636.4	2557.1	2572.9	2522.7	2456.6	2419.6	2409.0
35°	5537.3	4053.8	2969.6	2665.5	2580.9	2530.6	2512.1	2501.5	2406.4	2372.0	2345.5
37.5°	5883.7	4024.7	2848.0	2588.8	2520.1	2501.5	2485.7	2414.3	2305.9	2255.6	2218.6
40°	6288.2	4016.8	2691.9	2480.4	2461.9	2483.0	2435.4	2324.4	2173.7	2118.1	2091.7
42.5°	6677.0	4072.3	2594.1	2422.2	2398.4	2406.4	2340.2	2173.7	2099.6	2067.9	2025.6
45°	7327.5	4188.6	2432.8	2332.3	2321.7	2316.4	2237.1	2062.6	2020.3	1980.6	1972.7
47.5°	7914.5	4112.0	2329.7	2239.8	2250.3	2221.2	2052.0	1996.5	1948.9	1909.2	1896.0
50°	7948.9	3929.5	2184.2	2168.4	2171.0	2120.8	1959.5	1922.4	1861.6	1835.2	1816.7
52.5°	7769.1	3630.7	2049.4	2054.7	2062.6	1980.6	1845.8	1819.3	1769.1	1732.0	1721.5
55°	7264.0	3165.3	1917.1	1938.3	1959.5	1803.4	1761.1	1695.0	1655.4	1602.5	1605.1
57.5°	6399.3	2549.1	1732.0	1766.4	1811.4	1639.5	1607.8	1525.8	1467.6	1425.3	1420.0
60°	4289.1	1814.0	1454.4	1467.6	1568.1	1499.3	1496.7	1414.7	1335.4	1298.4	1277.2
62.5°	2530.6	1385.6	1256.1	1242.8	1240.2	1279.9	1346.0	1316.9	1213.8	1142.4	1163.5
65°	1324.8	1197.9	1168.8	1123.8	1097.4	1086.8	1137.1	1150.3	1081.5	1004.9	999.6
67.5°	1113.3	1113.3	1089.5	1073.6	1036.6	991.6	959.9	917.6	907.0	885.9	859.4
70°	1012.8	1039.2	1031.3	994.3	962.5	912.3	830.3	761.6	695.5	671.7	687.5
72.5°	883.2	909.7	909.7	891.1	848.8	772.1	692.8	613.5	558.0	515.6	510.4
75°	679.6	692.8	724.6	703.4	647.9	600.3	518.3	436.3	383.4	343.8	335.8
77.5°	433.7	454.8	454.8	452.2	412.5	367.6	314.7	256.5	216.8	187.7	179.8
80°	288.2	301.5	312.0	301.5	275.0	240.6	201.0	161.3	132.2	108.4	103.1
82.5°	211.5	227.4	235.3	224.8	198.3	171.9	142.8	113.7	84.6	66.1	60.8
85°	82.0	84.6	95.2	113.7	111.1	108.4	87.3	63.5	47.6	34.4	31.7
87.5°	21.2	18.5	21.2	21.2	18.5	15.9	15.9	15.9	15.9	7.9	10.6
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)