

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: P529572

Luminaire Tested: **GLAN-SA4D-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4D-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22342 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

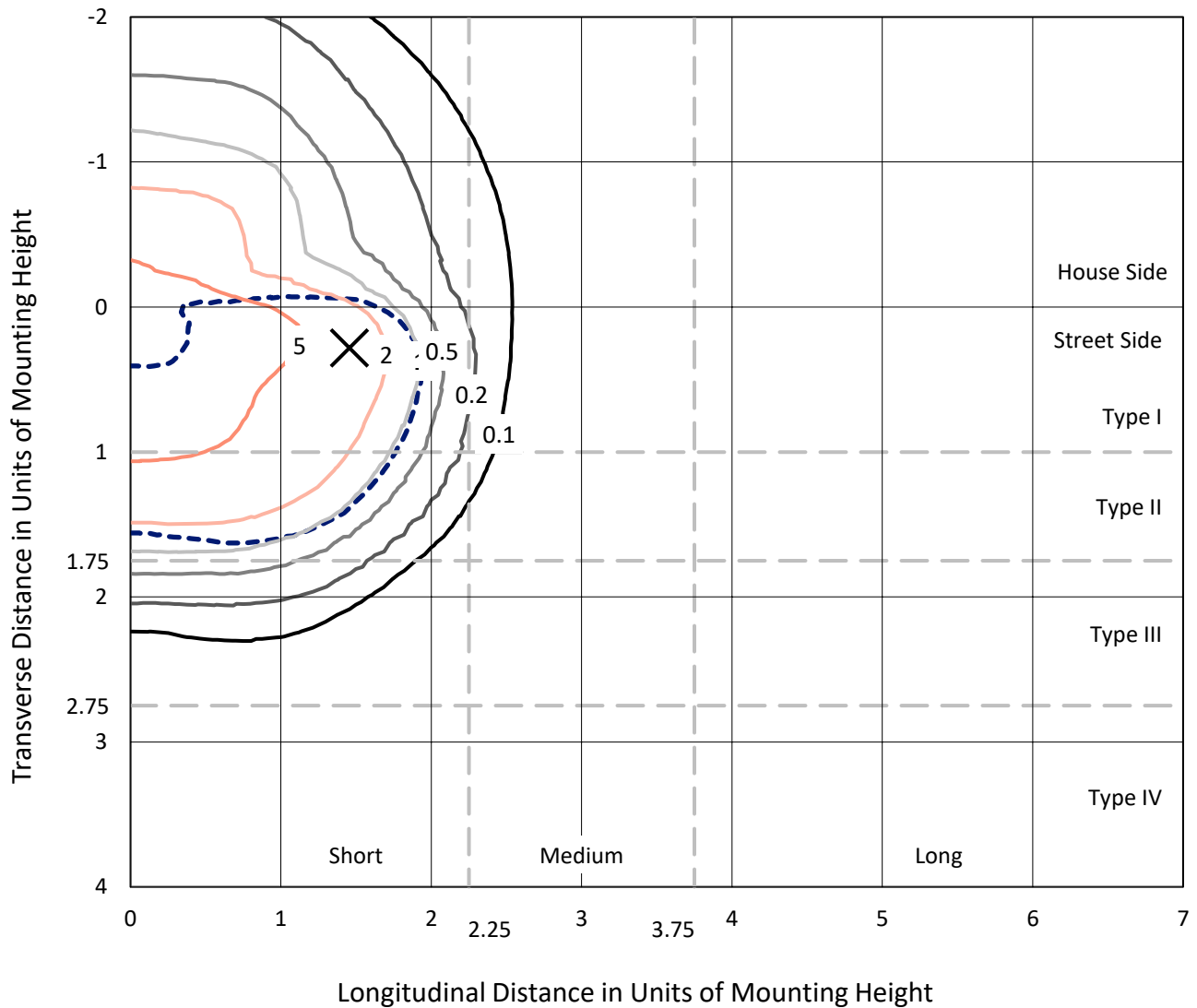
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

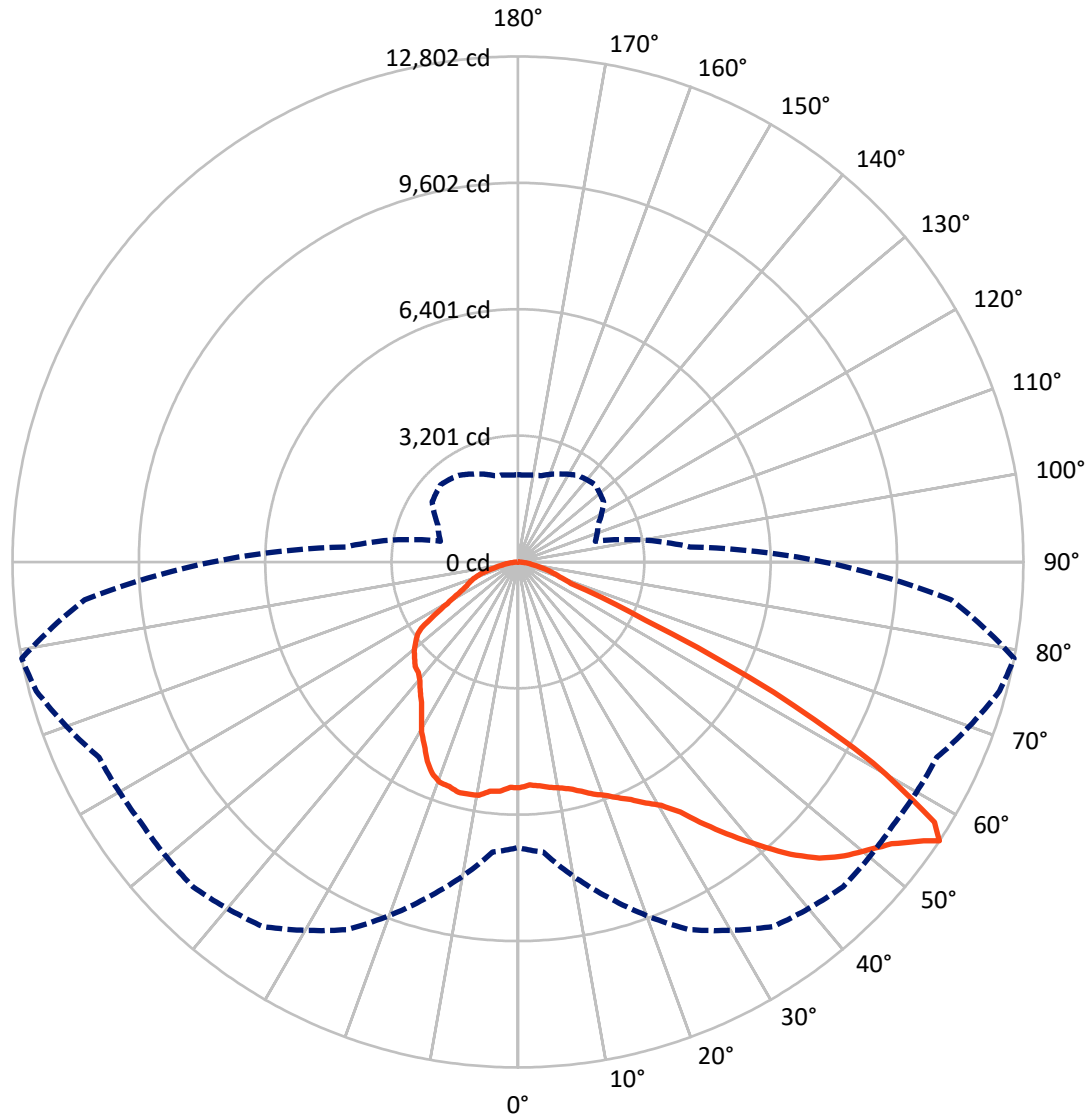
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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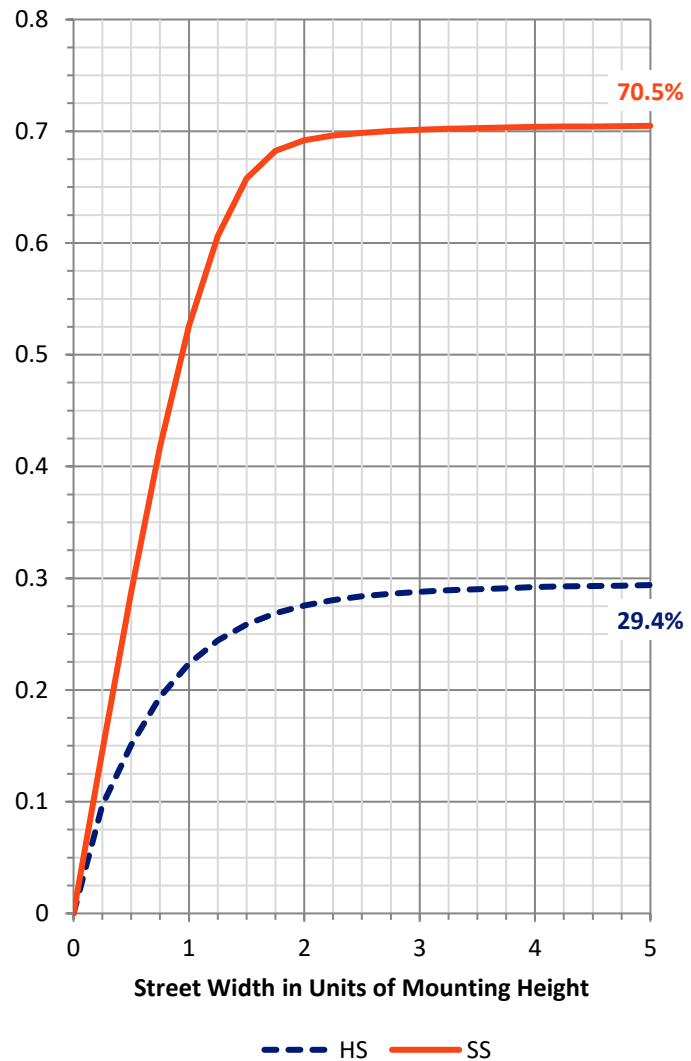
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6598.1	0.0	6598.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	15743.9	0.0	15743.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	22342.0	0.0	22342.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.7	2.3
10°-20°	1422.4	6.4
20°-30°	2433.4	10.9
30°-40°	3729.5	16.7
40°-50°	5040.4	22.6
50°-60°	5789.0	25.9
60°-70°	2638.8	11.8
70°-80°	650.6	2.9
80°-90°	118.2	0.5
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°	22342.0	100.0
0°-180°	22342.0	100.0



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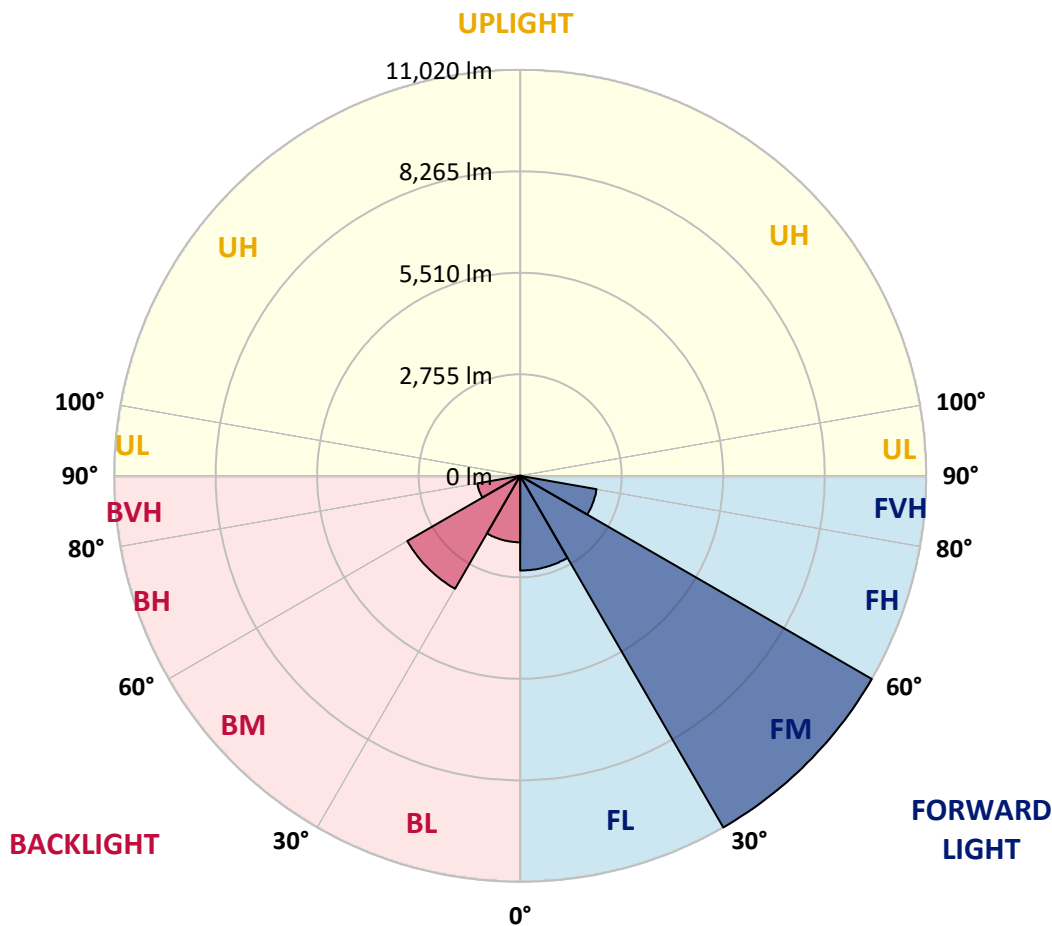
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2570.6	11.5			
FM (30°-60°)	11019.7	49.3			
FH (60°-80°)	2106.3	9.4			G2/5000
FVH (80°-90°)	47.2	0.2			G1/100
BL (0°-30°)	1804.9	8.1	B3/2500		
BM (30°-60°)	3539.1	15.8	B3/5000		
BH (60°-80°)	1183.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	71.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4
2.5°	5438.1	5424.2	5457.6	5482.7	5513.3	5552.2	5571.7	5582.8	5680.3	5655.2	5730.3
5°	5321.2	5285.1	5310.1	5329.6	5382.5	5429.8	5482.7	5566.1	5655.2	5694.2	5786.0
7.5°	5218.3	5198.8	5193.2	5207.1	5279.5	5340.7	5432.6	5555.0	5699.7	5763.7	5816.6
10°	5048.5	5020.7	5062.4	5154.3	5173.7	5301.8	5407.5	5582.8	5708.1	5819.4	5975.3
12.5°	4973.4	4945.5	4953.9	5006.7	5143.1	5265.6	5390.8	5588.4	5852.8	5897.3	6106.1
15°	5093.0	5065.2	5073.5	5059.6	5190.4	5254.4	5452.0	5699.7	5953.0	6028.1	6250.8
17.5°	5365.8	5368.5	5332.4	5301.8	5271.1	5407.5	5543.9	5766.5	5992.0	6181.2	6348.2
20°	5886.2	5794.4	5722.0	5549.4	5502.1	5560.6	5733.1	5947.4	6150.6	6306.4	6495.7
22.5°	6287.0	6295.3	6192.3	5908.5	5805.5	5830.5	5978.0	6153.4	6376.0	6487.3	6704.4
25°	6868.6	6810.2	6698.9	6473.4	6242.4	6261.9	6370.5	6529.1	6590.3	6668.2	6904.8
27.5°	7400.2	7416.9	7197.0	6985.5	6698.9	6643.2	6838.0	6865.8	6762.9	6910.4	6991.1
30°	7940.1	7926.2	7781.5	7533.8	7252.7	7263.8	7350.1	7213.7	7071.8	7152.5	7208.2
32.5°	8499.5	8340.9	8335.3	8112.7	7898.4	7795.4	7689.6	7756.4	7536.6	7553.3	7500.4
35°	8947.6	8969.8	8841.8	8683.2	8577.4	8396.5	8107.1	8226.8	8185.0	8165.5	7937.3
37.5°	9273.2	9186.9	9250.9	9198.1	9097.9	8872.4	8571.9	8686.0	8705.5	8800.1	8535.7
40°	9540.4	9504.2	9674.0	9701.8	9632.2	9145.2	8605.3	8944.8	9237.0	9443.0	9128.5
42.5°	9668.4	9746.3	9924.4	10138.7	9982.9	9462.5	8777.8	9142.4	9793.6	10119.3	9690.7
45°	9840.9	9740.8	10005.1	10397.6	10400.3	9729.6	8944.8	9409.6	10227.8	10700.9	10074.7
47.5°	9665.6	9715.7	9988.5	10486.6	10614.6	10010.7	9395.7	9788.1	10706.5	11126.7	10431.0
50°	9273.2	9373.4	9871.6	10389.2	10776.1	10308.5	9913.3	10197.2	11149.0	11469.0	10489.4
52.5°	8864.1	8919.8	9699.0	10464.4	10848.4	10692.6	10606.3	10762.1	11688.9	11855.9	10561.8
55°	7750.9	8015.3	9128.5	10431.0	11201.9	11385.6	11318.8	11547.0	12301.2	12468.2	10957.0
56°	7236.0	7375.1	8786.2	10275.1	11271.4	11638.8	11605.4	11708.4	12626.8	12802.1	11018.2
57.5°	6284.2	6295.3	7492.0	9584.9	11009.8	11714.0	11680.6	11761.3	12562.8	12443.1	10481.1
60°	3932.5	4105.0	5098.6	7372.4	9362.3	10867.9	11057.2	10408.7	10592.4	10339.1	8154.4
62.5°	2037.2	2012.2	2671.8	4311.0	6214.6	7781.5	7956.8	7926.2	7642.3	7272.2	5326.8
65°	1015.8	1021.4	1397.1	2134.6	3183.8	4074.4	4564.2	4617.1	3862.9	3554.0	2527.0
67.5°	737.5	765.3	1004.7	1305.3	1500.1	1678.2	2056.7	2017.7	1527.9	1452.8	1347.0
70°	573.3	598.4	815.4	996.3	904.5	904.5	985.2	1018.6	1088.2	1118.8	1155.0
72.5°	417.5	436.9	623.4	687.4	592.8	637.3	737.5	815.4	887.8	898.9	940.7
75°	286.7	303.4	409.1	378.5	356.2	439.7	539.9	612.3	665.2	693.0	718.0
77.5°	186.5	192.0	233.8	197.6	228.2	283.9	350.7	411.9	464.8	487.0	492.6
80°	83.5	91.8	100.2	125.2	158.6	203.2	250.5	300.6	334.0	342.3	359.0
82.5°	47.3	47.3	61.2	89.1	116.9	147.5	180.9	217.1	256.0	264.4	261.6
85°	25.0	25.0	36.2	52.9	72.4	86.3	83.5	86.3	91.8	105.8	103.0
87.5°	8.3	8.3	11.1	11.1	13.9	16.7	13.9	19.5	25.0	25.0	25.0
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°	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4	5716.4
2.5°	5708.1	5733.1	5699.7	5772.1	5772.1	5758.2	5688.6	5710.9	5727.6	5727.6	5741.5
5°	5816.6	5808.3	5830.5	5744.3	5691.4	5671.9	5557.8	5502.1	5454.8	5452.0	5410.3
7.5°	5877.9	5855.6	5847.2	5783.2	5549.4	5407.5	5162.6	5020.7	4990.1	4881.5	4923.3
10°	5975.3	6017.0	5975.3	5627.4	5301.8	4976.1	4736.8	4516.9	4430.7	4361.1	4319.3
12.5°	6175.6	6156.2	5914.0	5443.7	4987.3	4600.4	4244.2	4013.2	3926.9	3865.7	3860.1
15°	6345.4	6248.0	5877.9	5154.3	4497.4	4085.6	3793.3	3629.1	3590.2	3595.7	3620.8
17.5°	6403.9	6337.1	5688.6	4853.7	4132.9	3648.6	3512.2	3487.2	3523.4	3565.1	3576.2
20°	6495.7	6389.9	5610.7	4444.6	3682.0	3375.9	3367.5	3456.6	3523.4	3584.6	3592.9
22.5°	6687.7	6420.6	5357.4	4057.7	3373.1	3295.2	3375.9	3451.0	3554.0	3604.1	3559.6
25°	6743.4	6353.8	5001.2	3592.9	3178.3	3245.1	3331.3	3434.3	3506.7	3534.5	3554.0
27.5°	6790.7	6250.8	4519.7	3284.0	3117.0	3242.3	3331.3	3417.6	3456.6	3481.6	3503.9
30°	6924.3	6220.2	4102.3	3078.1	3078.1	3186.6	3300.7	3323.0	3375.9	3406.5	3445.4
32.5°	6991.1	6008.7	3673.7	2947.3	3039.1	3214.4	3222.8	3264.5	3267.3	3292.4	3250.6
35°	7166.4	5858.4	3275.7	2852.7	3055.8	3186.6	3228.4	3203.3	3066.9	3000.2	3014.1
37.5°	7294.4	5783.2	2989.0	2841.5	3058.6	3217.2	3239.5	3050.2	2908.3	2797.0	2824.8
40°	7639.5	5596.8	2771.9	2822.0	3083.6	3250.6	3189.4	2983.5	2727.4	2613.3	2593.8
42.5°	7903.9	5463.2	2635.6	2799.8	3103.1	3297.9	3164.4	2849.9	2588.3	2482.5	2510.3
45°	8210.1	5432.6	2563.2	2805.3	3136.5	3323.0	3133.7	2746.9	2468.6	2426.8	2418.5
47.5°	8318.6	5212.7	2485.3	2758.0	3128.2	3314.6	3030.8	2669.0	2424.1	2429.6	2451.9
50°	8137.7	4987.3	2426.8	2660.6	3072.5	3239.5	2869.3	2566.0	2399.0	2468.6	2507.5
52.5°	7906.7	4756.3	2307.2	2529.8	2958.4	3122.6	2794.2	2560.4	2374.0	2351.7	2360.0
55°	7976.3	4567.0	2140.2	2351.7	2774.7	2905.5	2710.7	2507.5	2312.7	2229.2	2257.1
56°	7750.9	4372.2	2031.6	2240.4	2649.5	2766.4	2669.0	2460.2	2262.6	2207.0	2207.0
57.5°	7113.5	3718.2	1889.7	2062.3	2385.1	2524.2	2588.3	2432.4	2207.0	2109.6	2112.4
60°	5246.1	2643.9	1694.9	1817.3	1976.0	2087.3	2385.1	2354.5	2067.8	2001.0	1976.0
62.5°	3233.9	1931.5	1555.7	1603.1	1683.8	1775.6	2081.7	2131.8	1920.3	1848.0	1831.3
65°	1811.8	1477.8	1450.0	1469.5	1508.4	1555.7	1728.3	1839.6	1694.9	1583.6	1578.0
67.5°	1324.7	1322.0	1344.2	1360.9	1377.6	1377.6	1419.4	1463.9	1444.4	1355.4	1347.0
70°	1177.2	1185.6	1202.3	1205.1	1210.6	1191.2	1157.8	1143.8	1166.1	1110.4	1099.3
72.5°	971.3	999.1	1018.6	1021.4	990.8	965.7	921.2	873.9	857.2	846.1	843.3
75°	745.9	765.3	773.7	770.9	759.8	723.6	670.7	623.4	592.8	559.4	576.1
77.5°	503.7	531.6	545.5	545.5	528.8	473.1	448.1	411.9	381.3	345.1	350.7
80°	353.5	372.9	395.2	392.4	364.6	336.8	300.6	267.2	242.1	214.3	211.5
82.5°	264.4	275.5	286.7	281.1	261.6	233.8	208.7	178.1	150.3	130.8	130.8
85°	94.6	103.0	125.2	130.8	141.9	141.9	119.7	100.2	80.7	66.8	66.8
87.5°	27.8	27.8	30.6	30.6	27.8	30.6	25.0	27.8	30.6	19.5	19.5
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)