

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: P654028

Luminaire Tested: **GLAN-SA8A-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P654028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8A-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28023.8 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

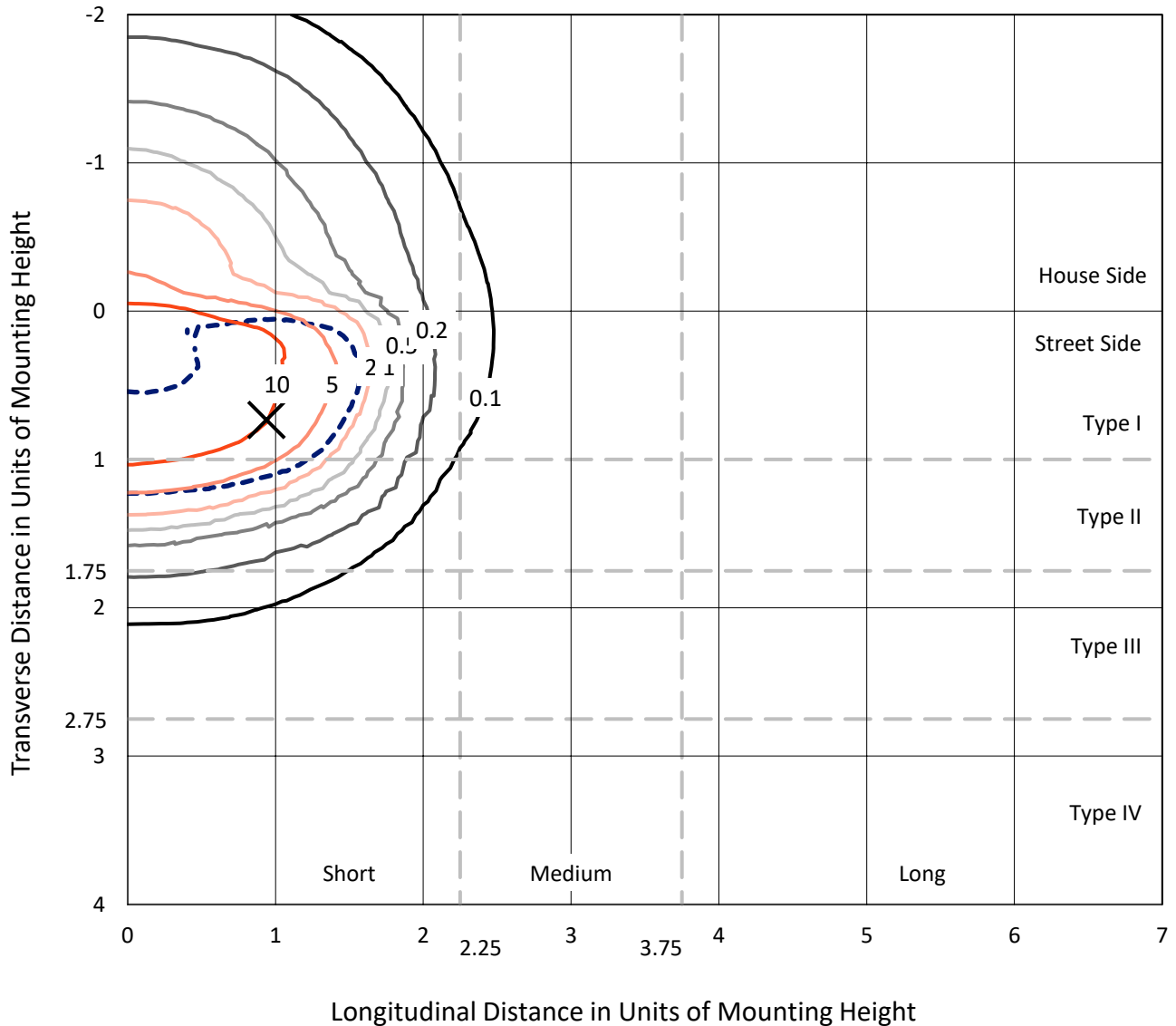
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

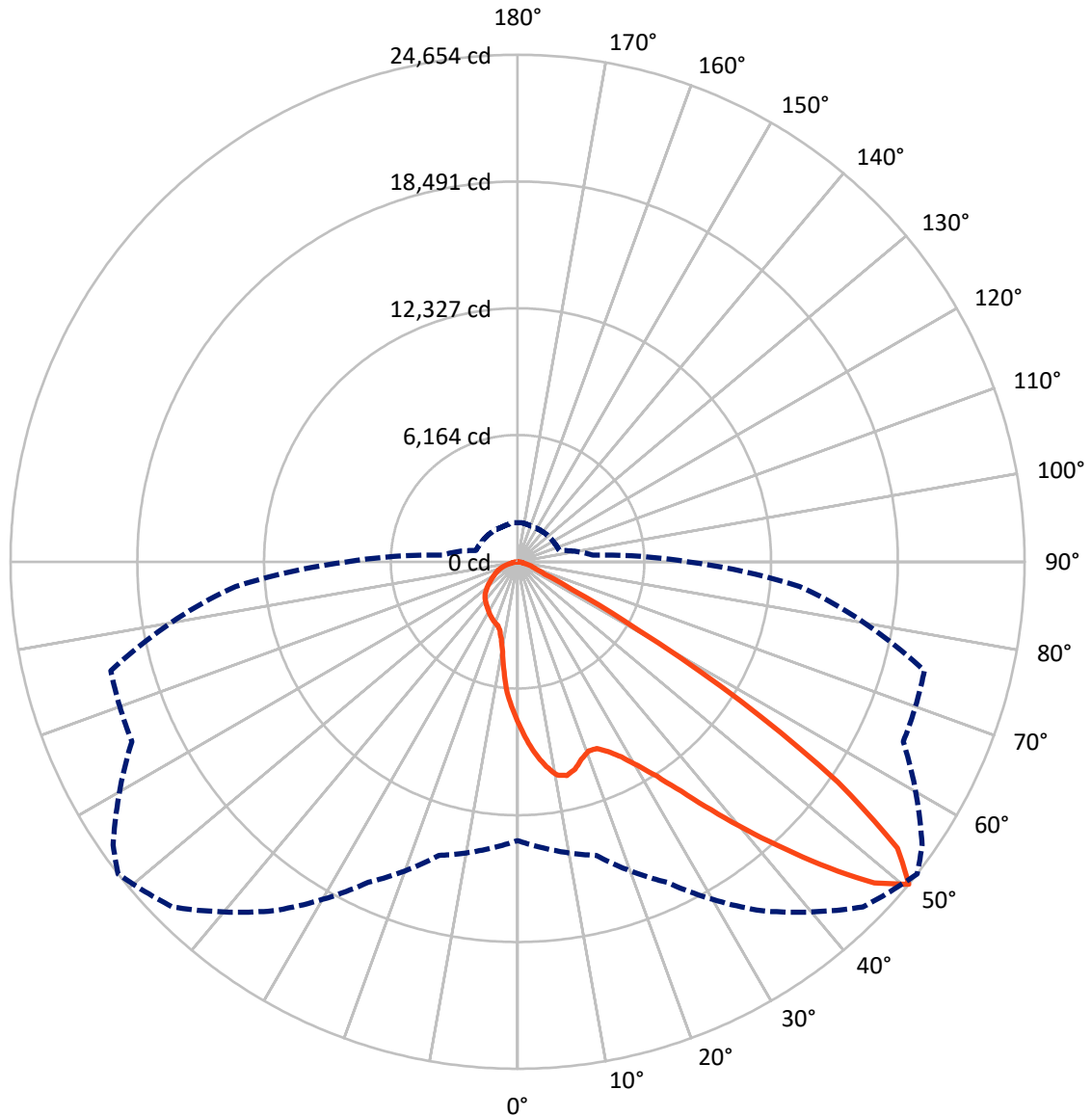
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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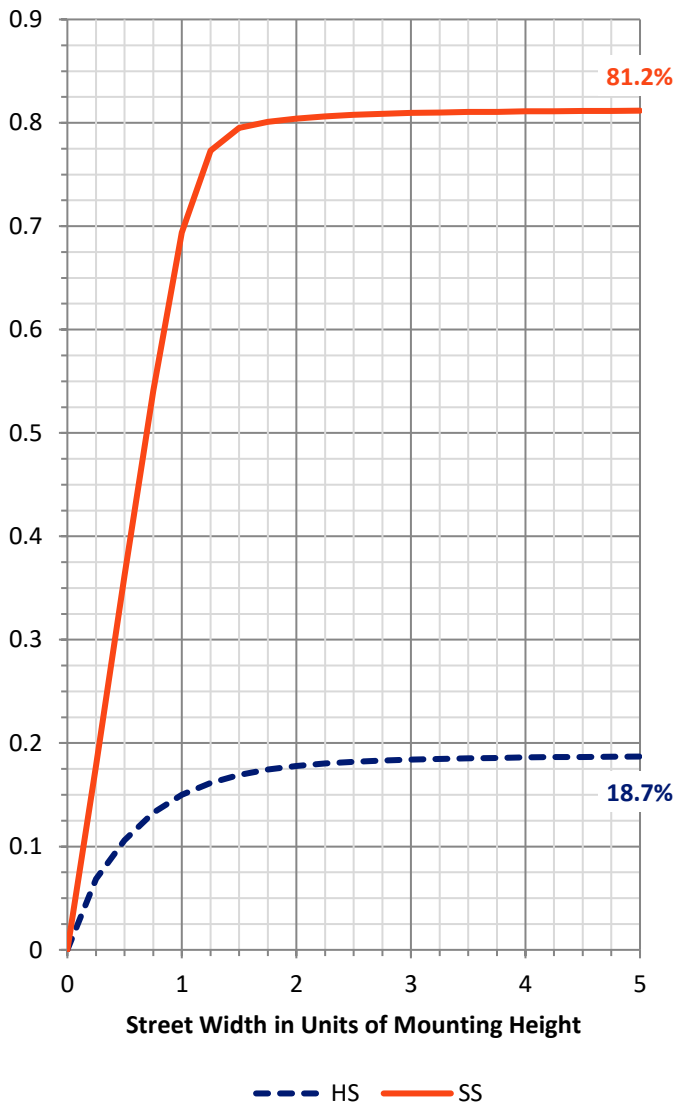
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5267.8	0.0	5267.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	22756.0	0.0	22756.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	28023.8	0.0	28023.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.1	2.6
10°-20°	1951.5	7.0
20°-30°	3287.2	11.7
30°-40°	5516.1	19.7
40°-50°	8438.3	30.1
50°-60°	6152.2	22.0
60°-70°	1369.2	4.9
70°-80°	493.8	1.8
80°-90°	87.4	0.3
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°	28023.8	100.0
0°-180°	28023.8	100.0



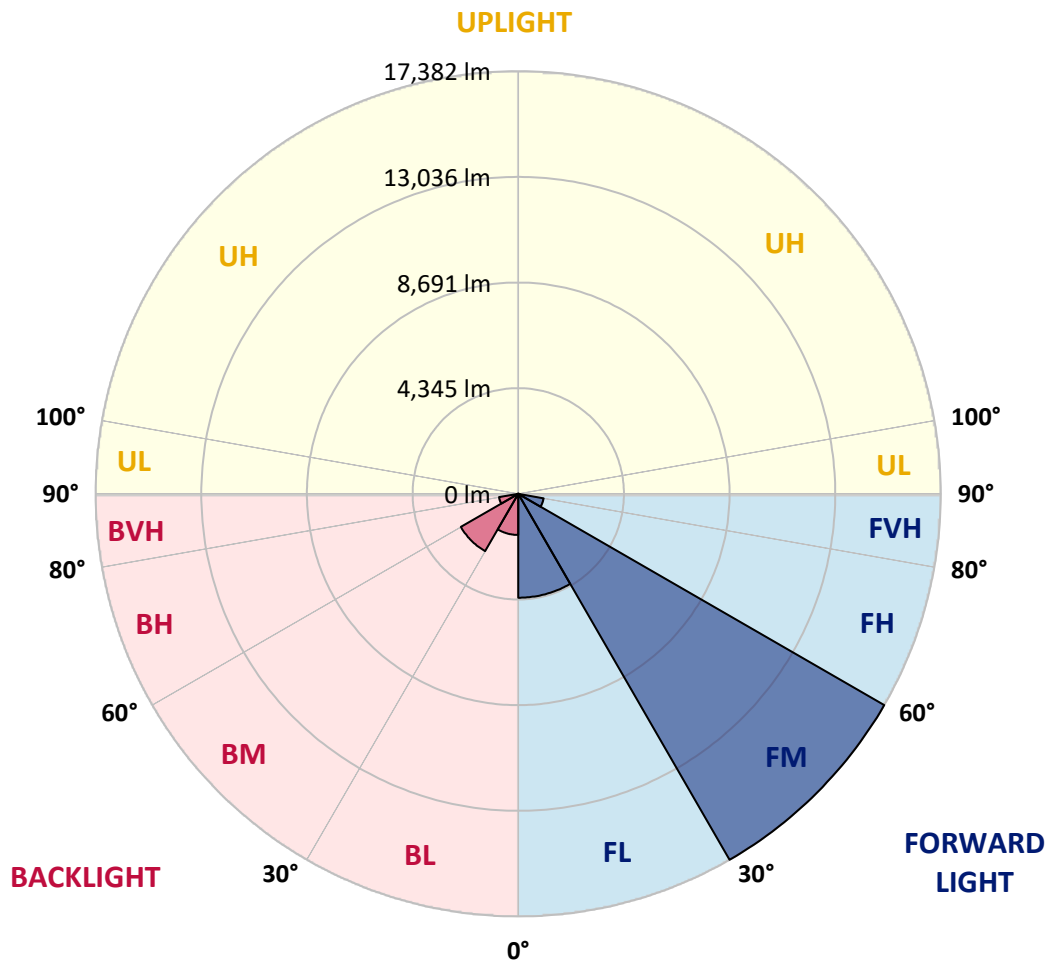
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4274.6	15.3			
FM	(30°-60°)	17381.8	62.0			
FH	(60°-80°)	1060.4	3.8			G1/1800
FVH	(80°-90°)	39.2	0.1			G1/100
BL	(0°-30°)	1692.1	6.0	B3/2500		
BM	(30°-60°)	2724.9	9.7	B3/5000		
BH	(60°-80°)	802.6	2.9	B2/1000		G2/1000
BVH	(80°-90°)	48.2	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°	52°	55°	65°	75°	85°
0°	7899.4	7899.4	7899.4	7899.4	7899.4	7899.4	7899.4	7899.4	7899.4	7899.4	7899.4
2.5°	9301.0	9122.0	9142.3	9013.9	8875.5	8835.0	8693.1	8558.0	8456.7	8240.5	8041.3
5°	10165.6	10111.6	10030.5	9929.2	9824.5	9567.8	9422.6	9253.7	8882.2	8547.8	8216.9
7.5°	10290.6	10280.4	10324.4	10324.4	10361.5	10263.6	10057.5	9939.4	9544.2	9000.5	8385.8
10°	9412.5	9442.8	9655.6	9932.5	10317.6	10584.4	10550.6	10520.2	10087.9	9344.9	8585.0
12.5°	8713.3	8645.8	8770.8	9007.2	9584.7	10229.8	10665.4	10668.8	10557.3	9895.4	8730.3
15°	8318.2	8365.5	8399.3	8510.8	8946.4	9692.8	10459.4	10685.7	11175.4	10283.8	8959.9
17.5°	8571.6	8412.8	8406.0	8433.0	8656.0	9216.6	10077.8	10466.2	11513.1	10783.6	9243.6
20°	8902.5	8899.1	8804.5	8770.8	8767.4	9267.2	9827.8	10354.7	11692.1	11432.0	9530.6
22.5°	9483.4	9483.4	9328.0	9253.7	9095.0	9503.6	9861.7	10219.7	11989.3	11877.9	9669.1
25°	10456.1	10297.3	10030.5	9848.1	9756.9	9902.2	10219.7	10540.5	12249.3	12350.7	9956.2
27.5°	11354.4	11104.5	10972.8	10658.7	10537.1	10452.7	10743.1	11067.3	12553.4	13087.0	10111.6
30°	12374.3	12330.4	12094.0	11688.7	11388.1	11232.8	11499.6	11820.4	13110.6	13840.1	10469.5
32.5°	14198.1	13799.5	13478.7	12982.3	12492.6	12161.5	12425.0	12637.8	14036.0	14627.0	10861.3
35°	16167.0	16038.7	15484.8	14589.8	13840.1	13542.9	13698.2	13857.0	15113.3	15829.3	11519.8
37.5°	18102.2	17926.6	17470.7	16717.5	15805.7	15201.1	15312.6	15498.3	16322.4	17450.4	12323.7
40°	19493.6	19277.5	19047.8	18936.4	18031.3	17203.8	17139.7	17186.9	17956.9	18970.2	13215.3
42.5°	19595.0	19861.7	19932.7	20381.9	20169.1	19490.3	19095.1	19105.2	19517.3	20473.1	14117.0
45°	19382.2	19135.6	19659.1	20885.1	21587.5	21905.0	21239.7	21155.3	20483.1	21344.4	14566.2
47.5°	17149.8	17217.4	18102.2	20040.8	22070.5	23489.0	23333.6	23053.2	20999.9	21314.0	14495.2
50°	13556.4	13965.1	14785.7	17200.5	20719.5	23738.8	24654.1	24005.7	20692.6	20476.4	13772.6
52.5°	9027.5	9196.3	9736.7	12853.9	16660.1	21219.4	23134.3	23282.9	20408.9	19378.8	12857.3
55°	4019.0	4005.4	4765.4	6714.0	10452.7	16146.8	18902.6	19807.7	19318.0	18260.9	11965.7
57.5°	1702.2	1759.5	2070.3	2901.1	5140.2	9743.4	12806.7	13600.3	14856.6	14995.1	9179.4
60°	1151.7	1158.4	1242.8	1452.2	2151.4	4576.2	6717.4	7669.8	8568.1	8507.4	4870.1
62.5°	905.1	928.7	992.9	1077.3	1276.6	2077.0	3005.7	3536.0	3593.4	3022.6	1847.3
65°	773.4	776.7	840.9	911.9	999.7	1209.1	1448.9	1475.9	1492.8	1438.7	1357.6
67.5°	638.3	645.0	695.8	776.7	857.8	925.4	992.9	1026.7	1104.4	1256.4	1236.1
70°	506.6	516.7	560.6	628.1	702.5	743.0	827.5	857.8	928.7	1047.0	1094.2
72.5°	385.0	388.4	425.5	472.8	540.3	580.9	651.8	685.6	732.8	834.2	878.1
75°	276.9	287.0	314.1	337.7	347.8	374.9	442.5	479.5	547.2	591.1	594.4
77.5°	145.2	152.0	158.7	158.7	192.5	243.1	287.0	307.3	354.6	388.4	371.5
80°	57.4	60.8	77.7	104.7	135.1	175.6	206.0	216.1	256.7	276.9	287.0
82.5°	33.8	37.2	50.6	74.3	98.0	125.0	148.6	158.7	185.8	209.4	216.1
85°	16.9	20.3	30.4	47.3	64.2	77.7	74.3	70.9	70.9	67.5	70.9
87.5°	6.7	6.7	10.1	10.1	10.1	13.5	16.9	16.9	16.9	20.3	20.3
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°	7899.4	7899.4	7899.4	7899.4	7899.4	7899.4	7899.4	7899.4	7899.4	7899.4	7899.4
2.5°	7909.6	7774.5	7649.6	7419.9	7169.9	7099.0	6808.6	6703.9	6629.6	6541.8	6514.7
5°	7950.1	7771.1	7369.2	6906.5	6538.4	6065.5	5754.9	5420.5	5177.4	5116.6	5099.7
7.5°	8034.6	7727.2	7034.9	6335.8	5582.6	4941.0	4451.2	4187.8	3954.8	3941.3	3917.6
10°	8129.1	7595.5	6670.1	5572.5	4609.9	4015.6	3721.8	3607.0	3549.5	3536.0	3529.3
12.5°	8206.8	7568.5	6261.5	4829.5	3921.0	3563.1	3475.2	3465.1	3488.7	3495.4	3509.0
15°	8240.5	7460.4	5768.4	4164.2	3492.1	3360.4	3397.6	3438.1	3454.9	3498.9	3465.1
17.5°	8304.7	7321.9	5160.5	3637.3	3252.3	3275.9	3340.1	3387.4	3414.5	3444.8	3400.9
20°	8338.5	7196.9	4589.8	3323.2	3167.9	3211.8	3299.6	3336.8	3370.6	3384.0	3333.4
22.5°	8308.1	6940.3	4086.5	3069.9	3086.8	3144.2	3222.0	3262.4	3242.2	3188.1	3157.8
25°	8227.1	6578.9	3563.1	2907.8	2972.0	3073.4	3134.1	3103.7	3066.5	3036.2	3026.0
27.5°	8223.6	6136.5	3184.8	2759.2	2874.0	3012.5	2992.3	2965.3	2982.1	2958.5	2931.5
30°	8240.5	5707.6	2874.0	2674.8	2803.1	2870.7	2894.3	2867.3	2887.6	2843.7	2857.2
32.5°	8152.7	5288.8	2671.4	2576.8	2718.7	2715.3	2793.0	2813.2	2766.0	2674.8	2688.3
35°	8189.9	4951.1	2499.2	2532.9	2624.2	2624.2	2684.9	2661.3	2536.4	2482.3	2495.8
37.5°	8446.6	4620.1	2414.8	2472.2	2532.9	2560.0	2539.7	2438.4	2408.0	2408.0	2414.8
40°	8689.7	4336.4	2364.1	2458.7	2448.5	2465.4	2316.8	2327.0	2327.0	2330.3	2313.4
42.5°	8905.9	4143.9	2323.6	2377.6	2394.5	2306.7	2215.5	2205.4	2229.0	2225.6	2212.1
45°	8983.6	3985.2	2266.2	2286.4	2299.9	2154.7	2110.8	2090.6	2117.6	2127.6	2141.2
47.5°	8686.4	3853.5	2202.0	2161.5	2134.5	2039.8	1982.5	1945.3	1979.0	2036.5	2050.0
50°	8304.7	3681.2	2100.6	2023.0	1965.6	1925.0	1884.5	1847.3	1871.0	1911.5	1901.4
52.5°	7740.7	3411.0	1972.3	1891.2	1793.3	1803.4	1766.4	1746.1	1759.5	1759.5	1749.4
55°	6936.9	2803.1	1756.2	1698.7	1617.7	1644.7	1651.5	1624.5	1597.5	1621.1	1600.8
57.5°	4734.9	1979.0	1567.0	1567.0	1486.0	1523.1	1519.8	1455.6	1391.4	1398.2	1384.7
60°	2739.0	1577.2	1445.5	1432.0	1347.5	1377.9	1384.7	1340.8	1242.8	1249.6	1236.1
62.5°	1556.9	1347.5	1263.1	1242.8	1225.9	1253.0	1253.0	1195.6	1111.1	1117.9	1104.4
65°	1323.9	1249.6	1128.0	1124.7	1117.9	1124.7	1097.6	1036.8	962.5	932.2	935.5
67.5°	1202.3	1155.0	1036.8	1006.4	986.2	982.8	932.2	874.7	840.9	813.9	810.6
70°	1053.7	1016.6	928.7	888.3	868.0	820.6	770.0	732.8	685.6	672.0	685.6
72.5°	834.2	830.8	797.0	753.1	709.2	672.0	628.1	577.5	533.6	523.4	499.8
75°	577.5	584.2	591.1	584.2	547.2	499.8	449.2	408.6	354.6	324.2	317.5
77.5°	378.3	388.4	398.5	385.0	361.4	317.5	283.7	233.0	192.5	168.9	165.5
80°	276.9	290.5	297.2	287.0	260.0	226.3	189.1	148.6	118.2	98.0	98.0
82.5°	212.8	226.3	233.0	216.1	189.1	162.1	135.1	104.7	81.1	64.2	60.8
85°	74.3	70.9	84.4	87.8	104.7	98.0	81.1	60.8	47.3	33.8	30.4
87.5°	20.3	20.3	23.6	23.6	20.3	16.9	16.9	16.9	13.5	10.1	10.1
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)