

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: P649437

Luminaire Tested: **GLAN-SA5D-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P649437
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-SA5D-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 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: 26655.7 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

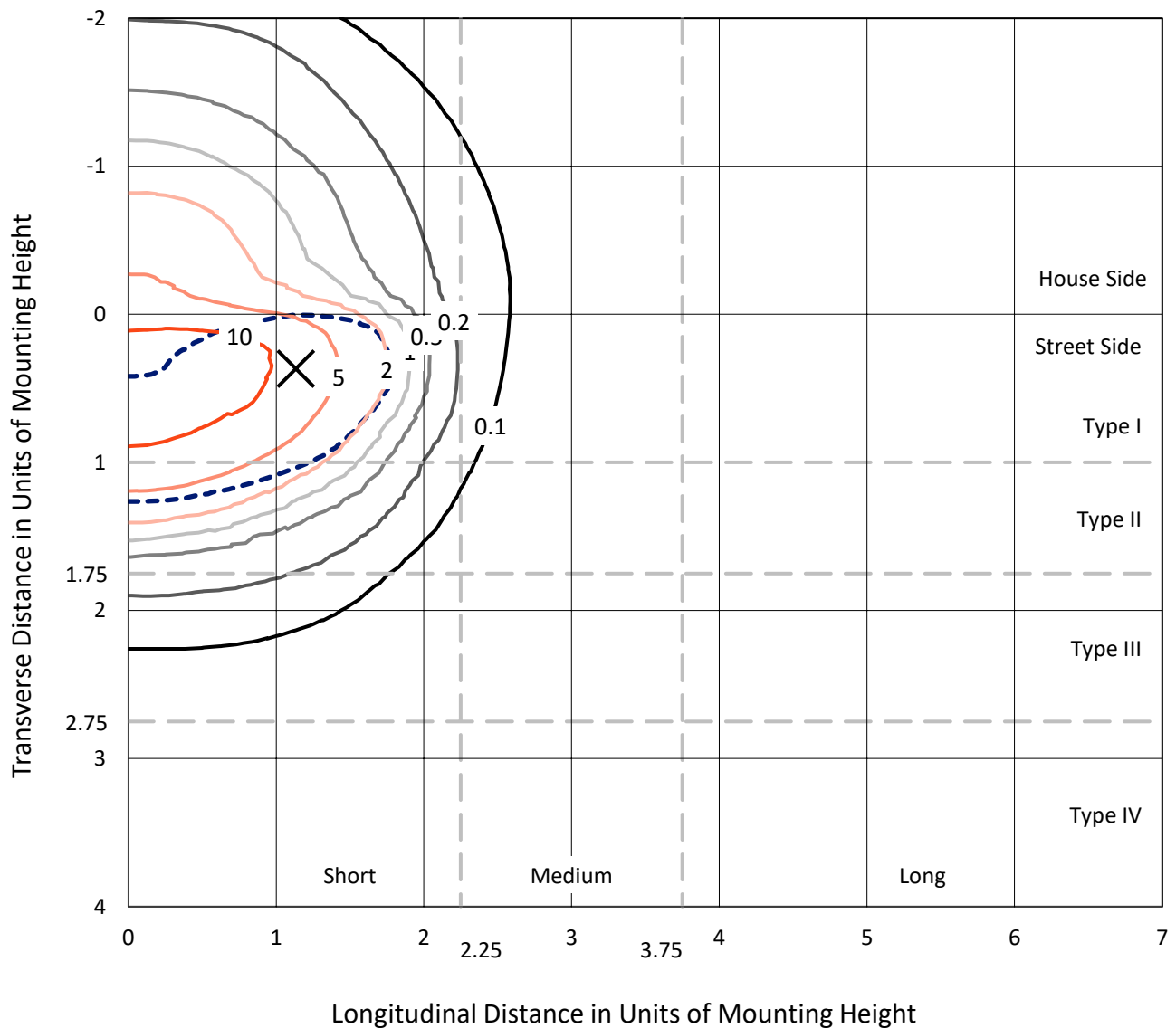
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

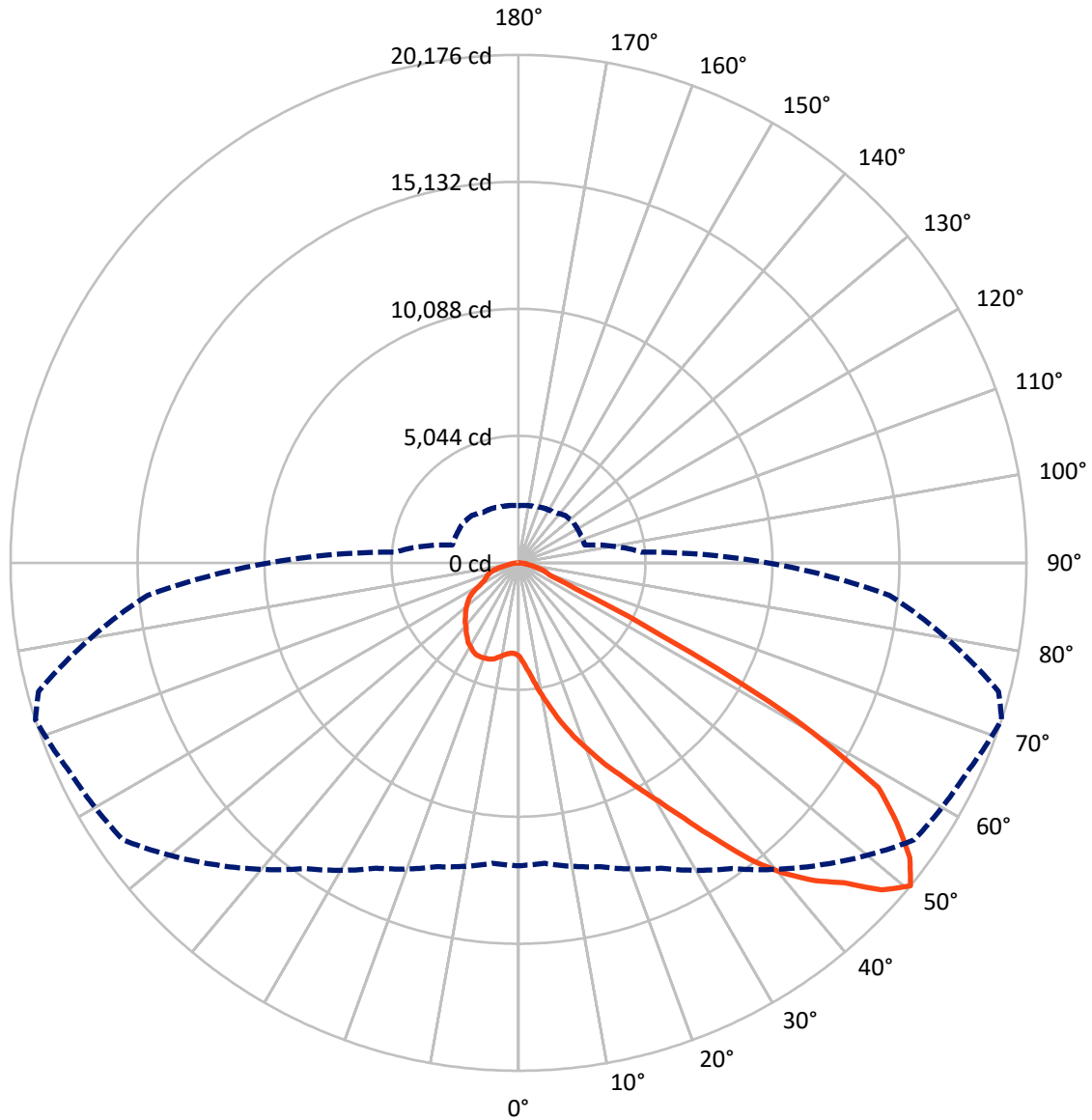
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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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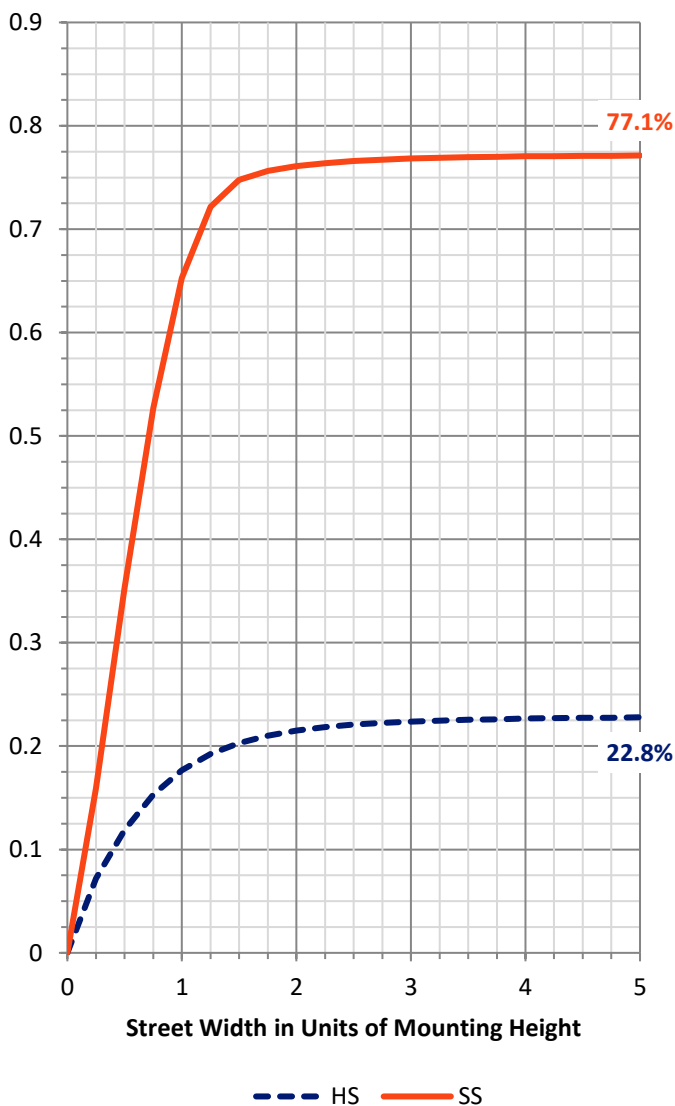
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6107.0	0.0	6107.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	20548.7	0.0	20548.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	26655.7	0.0	26655.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.5	1.6
10°-20°	1631.7	6.1
20°-30°	3163.7	11.9
30°-40°	5241.2	19.7
40°-50°	7333.5	27.5
50°-60°	6186.8	23.2
60°-70°	1885.7	7.1
70°-80°	661.6	2.5
80°-90°	115.0	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°	26655.7	100.0
0°-180°	26655.7	100.0

Coefficient of Utilization

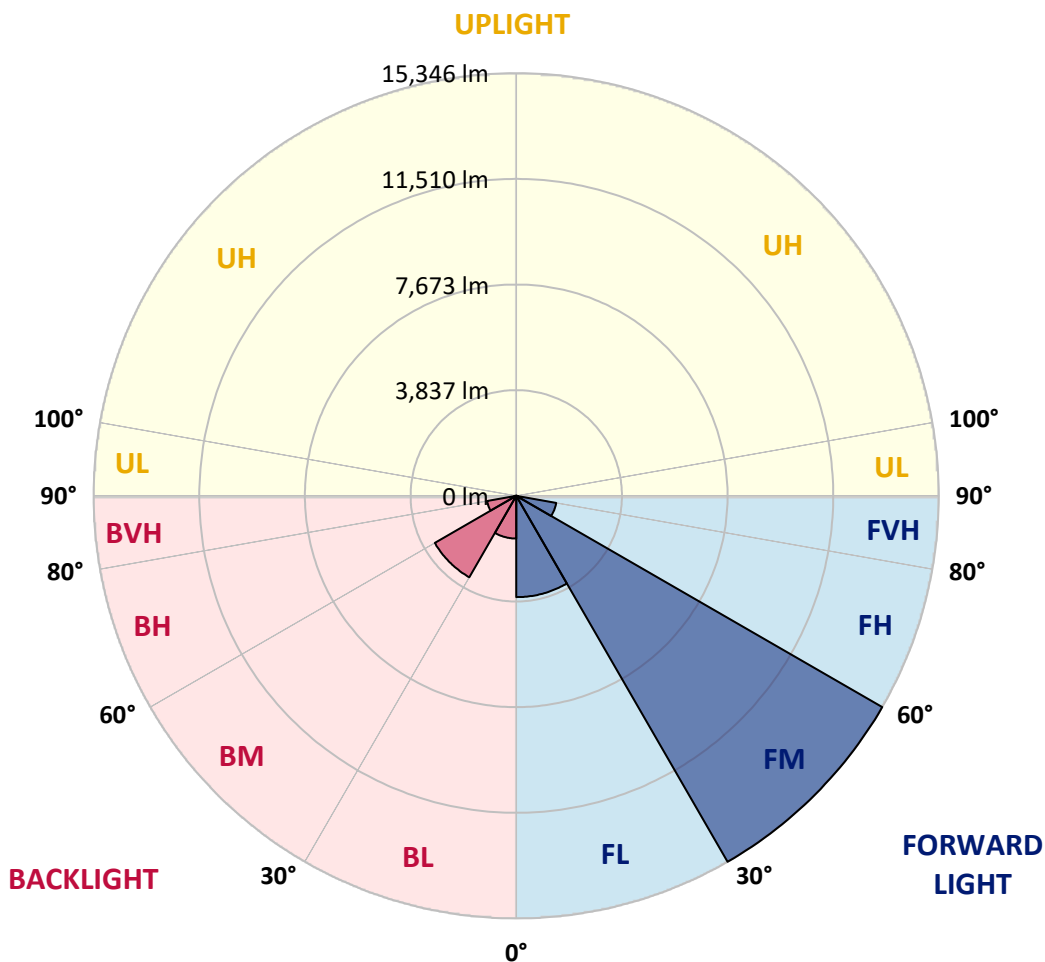


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3679.4	13.8			
FM (30°-60°)	15346.4	57.6			
FH (60°-80°)	1471.3	5.5			G1/1800
FVH (80°-90°)	51.5	0.2			G1/100
BL (0°-30°)	1552.4	5.8	B3/2500		
BM (30°-60°)	3415.1	12.8	B3/5000		
BH (60°-80°)	1075.9	4.0	B3/2500		G3/2500
BVH (80°-90°)	63.5	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3710.7	3710.7	3710.7	3710.7	3710.7	3710.7	3710.7	3710.7	3710.7	3710.7	3710.7
2.5°	4772.8	4743.1	4654.1	4624.3	4518.8	4327.5	4261.6	4066.9	3984.5	3908.6	3819.6
5°	6036.1	5897.6	5887.6	5719.4	5475.4	5333.5	4911.3	4627.7	4367.1	4235.2	3991.0
7.5°	6840.8	6844.2	6844.2	6705.6	6511.0	6151.5	5772.2	5261.0	4868.5	4673.8	4258.3
10°	7606.1	7540.1	7503.9	7490.6	7358.7	7009.1	6603.4	5970.1	5432.5	5204.8	4459.4
12.5°	8147.0	8091.0	8173.4	8130.5	8034.9	7807.3	7424.7	6702.3	6029.5	5722.7	4782.6
15°	8404.3	8443.9	8509.9	8628.6	8585.8	8499.9	8077.7	7454.4	6672.6	6326.3	5069.6
17.5°	8800.1	8691.3	8770.5	8918.8	9037.6	8998.0	8757.2	7998.6	7309.2	6883.7	5455.6
20°	9077.2	9014.5	9054.1	9225.6	9314.6	9539.0	9413.6	8711.0	7919.4	7470.8	5910.7
22.5°	9868.8	9776.5	9647.8	9674.2	9707.2	9865.5	9895.2	9492.8	8628.6	8153.6	6342.8
25°	10845.1	10759.4	10607.6	10452.7	10357.0	10327.3	10429.6	10106.3	9308.1	8816.6	6807.9
27.5°	11920.4	11775.3	11679.6	11359.7	11102.4	11062.9	11013.4	10838.5	10112.9	9581.8	7332.3
30°	12966.0	12850.5	12721.9	12210.7	11943.5	11900.6	11656.5	11706.0	10987.0	10396.5	7926.1
32.5°	13757.6	13767.5	13473.9	13088.0	12837.4	12609.7	12520.7	12662.5	12108.4	11633.4	8589.0
35°	14397.5	14427.2	14146.9	13797.2	13526.7	13685.0	13645.5	13711.4	13447.6	12867.0	9360.8
37.5°	15020.9	14872.5	14572.3	14404.1	14262.3	14522.8	14859.3	14915.4	14964.9	14282.1	10258.0
40°	15123.2	15136.3	14961.6	15080.3	14902.1	15294.7	16076.4	16003.8	16205.0	15608.0	11231.0
42.5°	14978.0	15007.7	15077.0	15245.2	15674.0	16145.6	17306.7	17009.8	17253.9	16722.8	12177.7
45°	14740.5	14618.5	14704.3	15344.1	16086.3	17135.2	18431.4	18200.5	18121.4	17676.1	13305.8
47.5°	13605.9	13731.2	13998.4	14786.7	15901.6	17306.7	19229.6	19176.8	19414.3	19101.1	14331.6
50°	12032.5	11983.1	12497.6	13384.9	14823.0	16970.3	19186.8	19665.0	20176.3	19740.9	14790.0
52.5°	9011.2	9275.1	9717.1	10818.7	12870.3	15136.3	18250.0	19048.3	19463.8	19371.5	14420.6
55°	5696.3	5775.5	6042.6	7352.1	9199.2	12148.0	15644.3	17494.7	18236.9	18583.2	14080.8
57.5°	2767.4	2618.9	2945.5	3997.7	5313.8	8170.1	12065.6	15238.6	16851.5	17478.2	13342.0
60°	1444.7	1500.8	1629.4	2005.4	2747.5	4241.7	7520.3	10155.7	12619.7	13582.8	10112.9
62.5°	1197.3	1217.1	1302.8	1490.9	1827.3	2440.8	3839.4	4950.9	6435.2	7302.6	5752.4
65°	1015.9	1025.8	1118.1	1243.5	1457.9	1718.5	1975.7	2068.1	2503.5	2569.4	2045.0
67.5°	847.7	857.6	956.5	1075.3	1213.8	1283.1	1349.0	1342.5	1391.9	1372.1	1368.8
70°	653.1	663.0	765.2	890.6	959.8	920.3	1124.8	1170.9	1190.7	1207.2	1233.6
72.5°	471.7	491.5	570.7	659.7	623.4	715.7	926.8	996.1	1022.5	1032.4	1065.3
75°	343.0	349.6	369.4	343.0	395.8	498.1	653.1	738.8	771.8	781.7	831.2
77.5°	151.7	155.0	158.3	197.9	254.0	310.1	389.2	458.4	504.6	517.9	531.0
80°	79.2	82.4	102.3	135.2	181.4	227.6	283.7	323.2	352.9	356.3	369.4
82.5°	49.5	52.8	72.6	95.7	128.6	168.2	207.8	240.8	263.9	267.2	270.4
85°	23.1	29.7	42.9	59.4	85.7	108.8	112.1	95.7	102.3	105.5	99.0
87.5°	6.6	9.9	13.2	9.9	13.2	13.2	16.5	19.8	19.8	19.8	23.1
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°	3710.7	3710.7	3710.7	3710.7	3710.7	3710.7	3710.7	3710.7	3710.7	3710.7	3710.7
2.5°	3770.1	3740.4	3625.0	3582.1	3469.9	3489.7	3430.3	3427.0	3413.8	3410.5	3407.2
5°	3862.5	3770.1	3631.6	3526.0	3463.3	3456.7	3413.8	3413.8	3427.0	3436.9	3413.8
7.5°	4014.1	3908.6	3674.4	3575.5	3519.4	3509.5	3479.8	3456.7	3486.4	3476.5	3450.1
10°	4189.0	4004.3	3756.9	3671.1	3578.8	3555.7	3555.7	3565.5	3516.1	3532.6	3506.2
12.5°	4383.5	4136.2	3862.5	3763.5	3654.7	3641.4	3634.8	3562.3	3588.6	3575.5	3509.5
15°	4631.0	4287.9	3997.7	3829.4	3737.1	3677.8	3591.9	3578.8	3562.3	3529.3	3499.6
17.5°	4898.1	4452.8	4060.3	3849.2	3710.7	3667.8	3601.9	3532.6	3483.1	3489.7	3466.7
20°	5125.7	4604.6	4083.4	3869.0	3690.9	3608.5	3506.2	3463.3	3410.5	3407.2	3403.9
22.5°	5396.2	4809.0	4116.4	3816.3	3631.6	3545.8	3476.5	3400.6	3364.4	3318.2	3341.3
25°	5719.4	4888.2	4123.0	3786.6	3588.6	3436.9	3400.6	3318.2	3305.0	3239.0	3252.2
27.5°	5953.6	4931.1	4070.2	3694.2	3489.7	3374.3	3308.3	3248.9	3225.8	3176.3	3163.2
30°	6267.0	4997.1	3958.1	3578.8	3390.8	3262.1	3222.5	3209.4	3143.4	3090.6	3084.0
32.5°	6623.2	5039.9	3885.5	3460.0	3288.5	3189.6	3209.4	3146.6	3064.2	3018.0	3004.8
35°	6906.8	5056.5	3704.1	3324.8	3219.2	3156.6	3133.5	3120.3	3001.6	2958.6	2925.7
37.5°	7338.9	5020.1	3552.4	3229.1	3143.4	3120.3	3100.5	3011.4	2876.2	2813.6	2767.4
40°	7843.6	5010.3	3357.7	3093.9	3070.8	3097.2	3037.8	2899.3	2711.3	2642.0	2609.0
42.5°	8328.5	5079.6	3235.7	3021.4	2991.6	3001.6	2919.1	2711.3	2618.9	2579.4	2526.6
45°	9139.9	5224.6	3034.5	2909.2	2896.0	2889.4	2790.5	2572.8	2520.0	2470.5	2460.6
47.5°	9872.1	5129.0	2905.9	2793.7	2806.9	2770.6	2559.5	2490.3	2430.9	2381.4	2365.0
50°	9915.0	4901.4	2724.4	2704.7	2708.0	2645.3	2444.1	2397.9	2322.1	2289.1	2266.0
52.5°	9690.7	4528.7	2556.3	2562.8	2572.8	2470.5	2302.3	2269.3	2206.7	2160.5	2147.2
55°	9060.7	3948.2	2391.4	2417.7	2444.1	2249.5	2196.7	2114.3	2064.8	1998.8	2002.1
57.5°	7982.1	3179.7	2160.5	2203.4	2259.4	2045.0	2005.4	1903.2	1830.6	1777.8	1771.2
60°	5350.0	2262.7	1814.1	1830.6	1955.9	1870.2	1866.9	1764.6	1665.7	1619.5	1593.1
62.5°	3156.6	1728.4	1566.7	1550.3	1547.0	1596.5	1678.9	1642.6	1513.9	1424.9	1451.3
65°	1652.5	1494.2	1457.9	1401.8	1368.8	1355.6	1418.3	1434.8	1349.0	1253.4	1246.8
67.5°	1388.7	1388.7	1359.0	1339.2	1293.0	1236.9	1197.3	1144.5	1131.4	1105.0	1072.0
70°	1263.3	1296.3	1286.4	1240.2	1200.7	1137.9	1035.7	949.9	867.5	837.8	857.6
72.5°	1101.7	1134.6	1134.6	1111.5	1058.8	963.2	864.2	765.2	695.9	643.2	636.6
75°	847.7	864.2	903.7	877.4	808.1	748.7	646.5	544.3	478.3	428.8	418.9
77.5°	541.0	567.4	567.4	564.0	514.6	458.4	392.5	319.9	270.4	234.2	224.3
80°	359.6	376.0	389.2	376.0	343.0	300.1	250.7	201.2	164.9	135.2	128.6
82.5°	263.9	283.7	293.5	280.4	247.3	214.4	178.1	141.8	105.5	82.4	75.9
85°	102.3	105.5	118.8	141.8	138.5	135.2	108.8	79.2	59.4	42.9	39.6
87.5°	26.4	23.1	26.4	26.4	23.1	19.8	19.8	19.8	19.8	9.9	13.2
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)