

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P640540

Luminaire Tested: GWS-SA5E-722-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-722-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26709.7 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

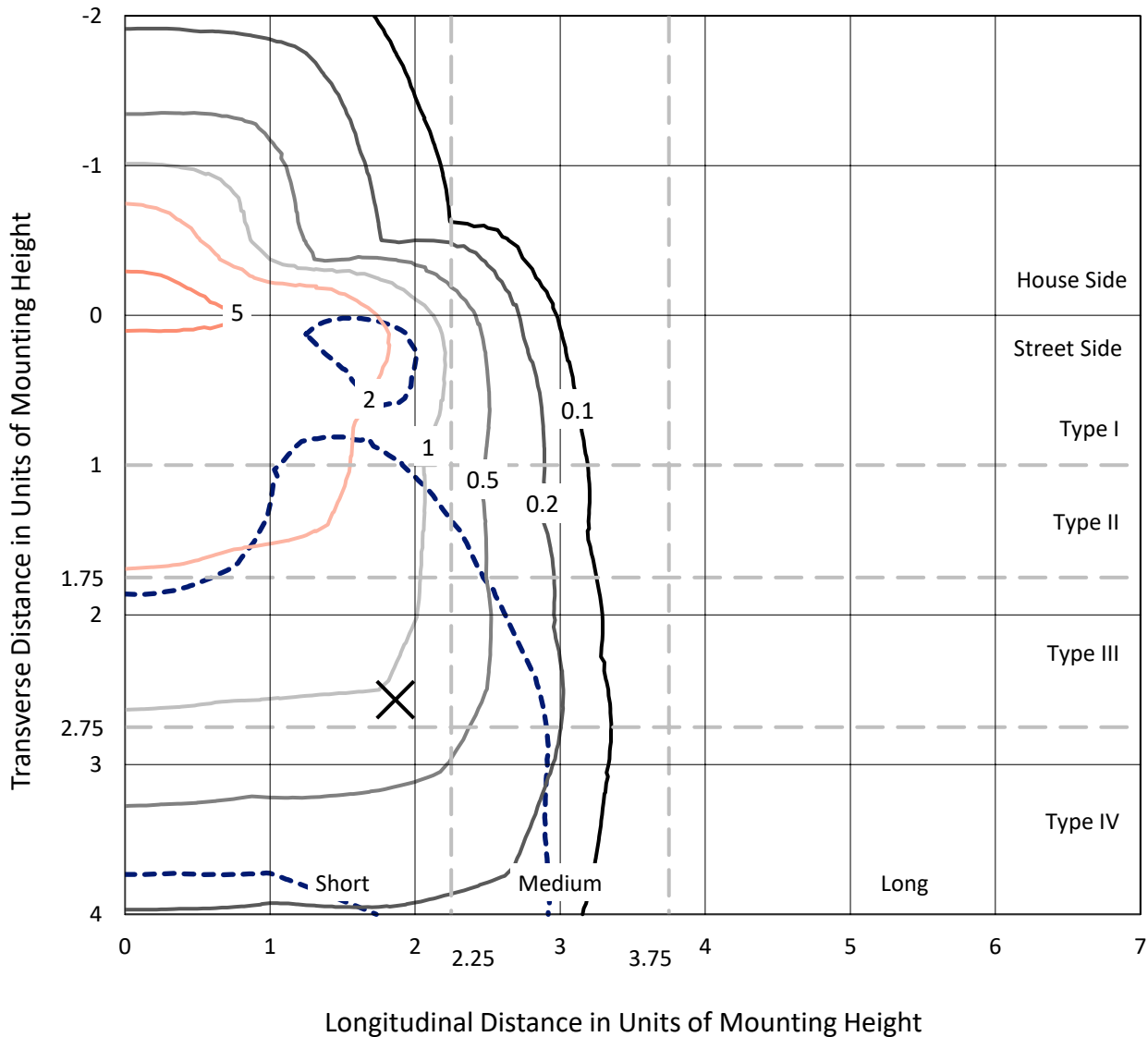
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

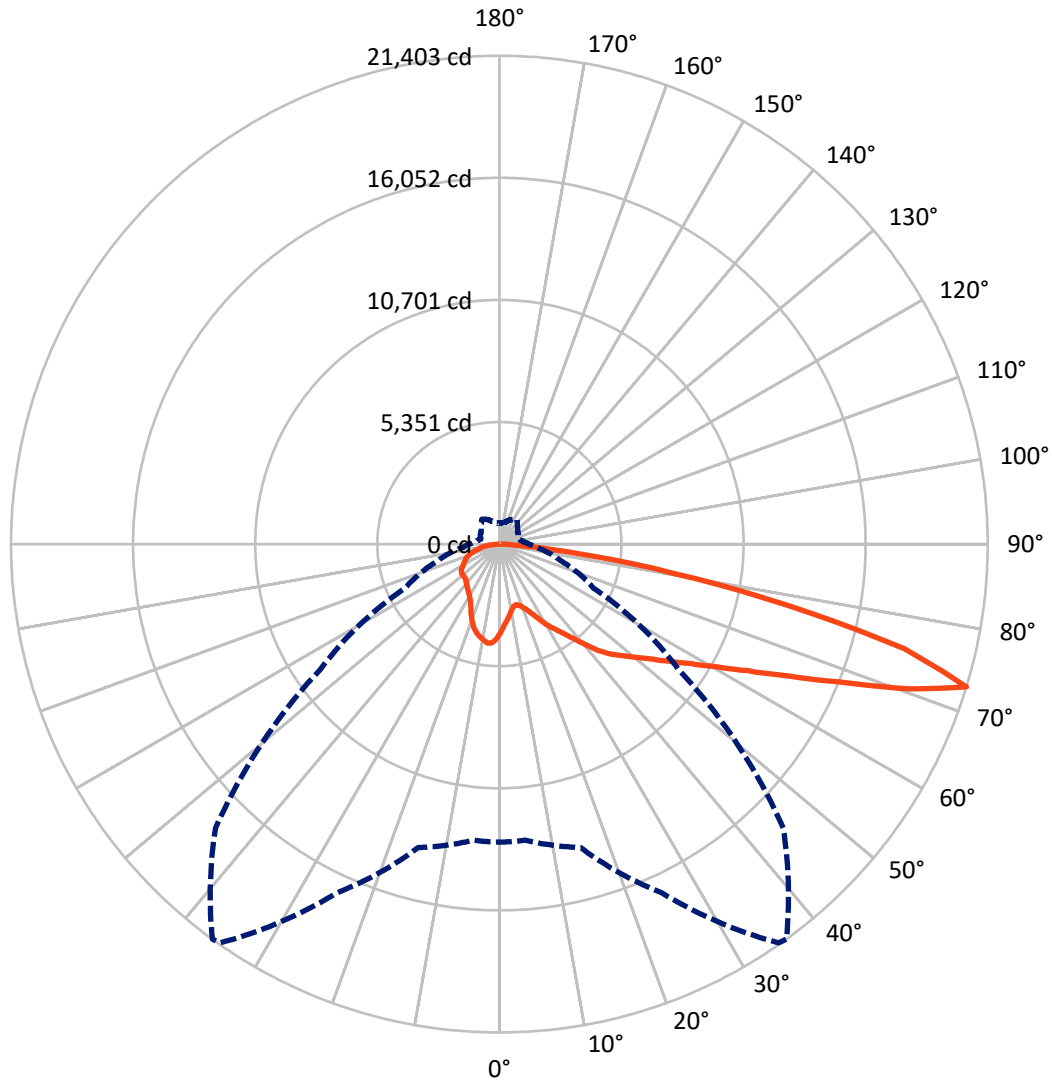
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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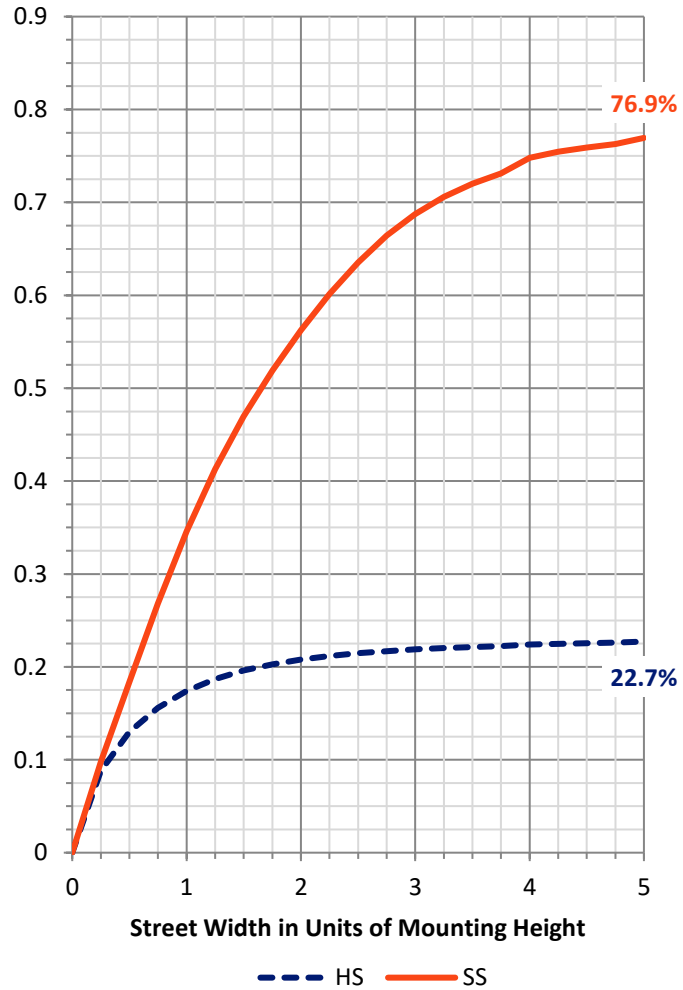
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6157.7	0.0	6157.7
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	20552.0	0.0	20552.0
	% Fixture	76.9	0.0	76.9
Total	Lumens	26709.7	0.0	26709.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.4	1.4
10°-20°	1030.9	3.9
20°-30°	1707.3	6.4
30°-40°	2556.9	9.6
40°-50°	3730.3	14.0
50°-60°	5309.3	19.9
60°-70°	6707.9	25.1
70°-80°	4779.9	17.9
80°-90°	521.8	2.0
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°	26709.7	100.0
0°-180°	26709.7	100.0

Coefficient of Utilization



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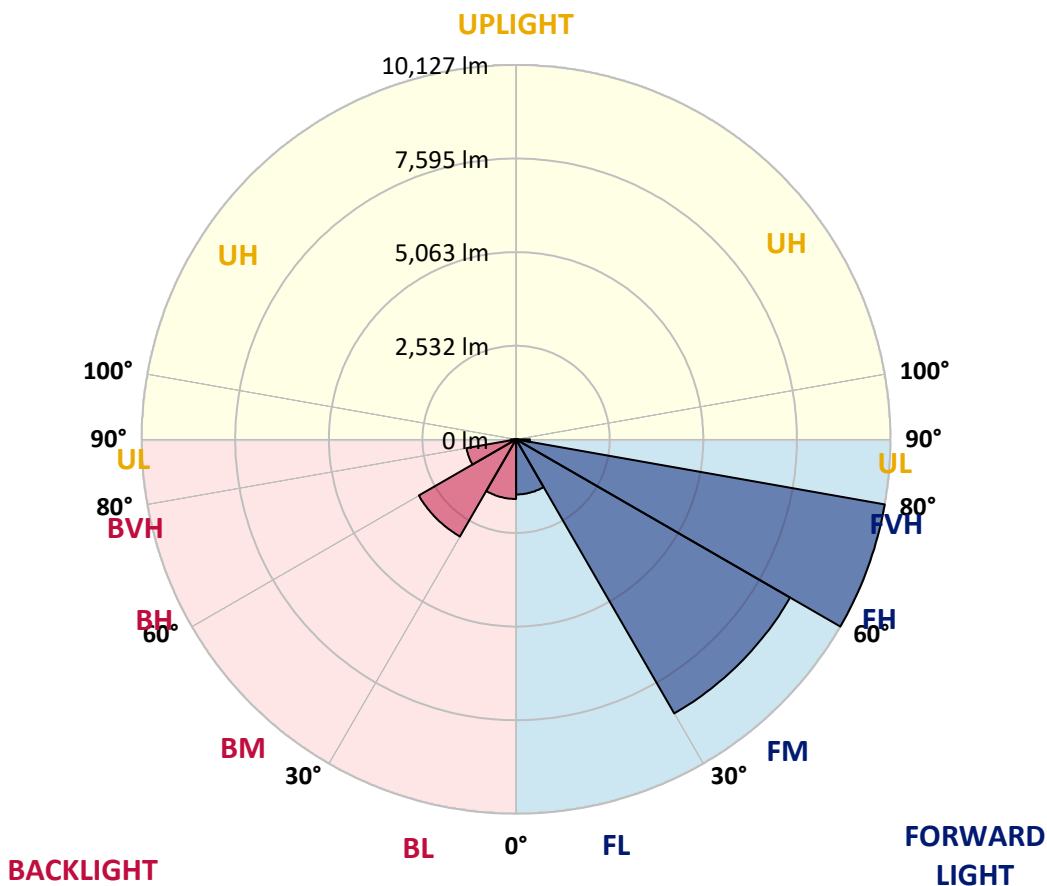
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1491.1	5.6			
FM (30°-60°)	8559.8	32.0			
FH (60°-80°)	10126.5	37.9			G4/12000
FVH (80°-90°)	374.5	1.4			G3/500
BL (0°-30°)	1612.5	6.0	B3/2500		
BM (30°-60°)	3036.6	11.4	B3/5000		
BH (60°-80°)	1361.3	5.1	B3/2500		G3/2500
BVH (80°-90°)	147.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1
2.5°	3566.1	3560.2	3548.3	3584.0	3619.7	3615.7	3665.3	3712.8	3764.4	3817.9	3889.3
5°	3280.7	3276.7	3266.8	3320.3	3373.9	3371.9	3453.2	3530.5	3635.5	3750.5	3893.2
7.5°	2995.2	2985.3	2999.2	3066.6	3141.9	3149.9	3260.9	3387.7	3540.4	3712.8	3915.0
10°	2743.5	2741.5	2747.5	2822.8	2935.8	2943.7	3086.4	3262.9	3465.1	3695.0	3964.6
12.5°	2678.1	2674.1	2658.3	2695.9	2781.2	2793.1	2949.7	3165.7	3413.5	3704.9	4032.0
15°	2785.1	2775.2	2719.7	2701.9	2743.5	2753.4	2886.2	3108.2	3383.8	3722.7	4117.2
17.5°	2969.5	2963.5	2858.5	2785.1	2812.9	2820.8	2919.9	3098.3	3375.8	3758.4	4222.3
20°	3239.1	3213.3	3048.8	2937.8	2937.8	2949.7	3009.1	3141.9	3385.8	3802.0	4341.2
22.5°	3595.9	3544.3	3312.4	3161.8	3122.1	3138.0	3163.7	3251.0	3427.4	3875.4	4489.9
25°	3996.3	3948.7	3673.2	3461.1	3405.6	3411.5	3389.7	3405.6	3518.6	3976.5	4674.2
27.5°	4422.5	4390.8	4097.4	3827.8	3740.6	3740.6	3663.3	3625.6	3645.4	4091.5	4880.4
30°	4803.1	4759.5	4511.7	4216.3	4101.4	4101.4	3954.7	3873.4	3825.8	4232.2	5155.9
32.5°	5003.3	4977.5	4813.0	4587.0	4446.3	4424.5	4297.6	4202.5	4091.5	4440.3	5528.6
35°	5265.0	5259.0	5159.9	4983.5	4805.1	4773.4	4686.1	4610.8	4418.5	4700.0	6024.2
37.5°	5594.0	5584.1	5568.3	5463.2	5249.1	5243.2	5165.9	5074.7	4824.9	5074.7	6624.8
40°	5962.7	5944.9	5925.1	5923.1	5794.2	5772.4	5766.5	5663.4	5314.5	5526.6	7251.2
42.5°	6470.2	6408.8	6222.4	6305.7	6400.8	6381.0	6456.3	6301.7	5925.1	6063.8	7843.9
45°	7094.6	6944.0	6575.3	6599.1	6838.9	6878.6	7140.2	7102.6	6597.1	6684.3	8468.4
47.5°	7469.3	7338.5	6995.5	6975.7	7275.0	7324.6	7893.5	7964.9	7320.6	7431.6	9239.5
50°	7776.5	7685.4	7403.9	7431.6	7748.8	7798.3	8640.8	8793.5	8002.5	8196.8	10135.5
52.5°	8147.2	8016.4	7798.3	7929.2	8317.7	8377.2	9471.4	9635.9	8617.0	9037.3	11063.2
55°	8355.4	8301.8	8305.8	8506.0	8993.7	9074.9	10341.6	10313.9	9180.0	9756.9	11761.0
57.5°	8835.1	8815.3	8997.6	9073.0	9782.6	9887.7	11211.9	10974.0	9691.4	10313.9	12096.0
60°	9681.5	9632.0	9790.6	9905.5	10757.9	10906.6	12183.2	11620.2	10038.3	10728.2	11983.0
62.5°	10870.9	10809.5	10815.4	10997.8	12064.2	12220.8	13263.5	12159.4	10145.4	10791.6	11267.4
65°	12349.7	12260.5	12159.4	12407.2	13798.8	13929.6	14439.0	12551.9	9889.7	10181.1	9772.7
67.5°	13909.8	13836.4	13717.5	14236.8	16044.7	16124.0	15757.3	12518.2	9078.9	8547.7	6854.8
70°	14000.9	14018.8	14581.8	16461.0	18976.5	18996.3	17004.1	11840.2	7352.3	5540.5	3415.5
72.5°	13061.3	13031.6	13765.1	16867.3	21335.4	21402.8	17592.9	9592.3	4543.4	2763.3	1601.7
75°	10609.2	10660.8	11431.9	14758.2	18286.7	18346.1	14341.9	5655.5	2158.7	1351.9	1024.8
77.5°	4567.2	4854.6	6375.1	10397.1	13097.0	12912.7	7392.0	2291.5	1151.7	963.4	785.0
80°	1318.2	1431.2	2271.7	4943.8	7847.9	7709.1	2925.9	858.3	802.8	723.5	563.0
82.5°	426.2	471.8	832.6	1968.4	3516.6	3512.6	1110.1	507.5	525.3	491.6	362.8
85°	118.9	136.8	255.7	596.7	1088.3	1066.5	321.1	239.9	279.5	283.5	180.4
87.5°	0.0	0.0	2.0	4.0	4.0	4.0	7.9	35.7	81.3	103.1	73.3
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°	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1	3909.1
2.5°	3932.9	3926.9	4008.2	4071.6	4131.1	4170.7	4182.6	4190.6	4206.4	4214.4	4206.4
5°	3960.6	3990.4	4125.2	4224.3	4303.6	4351.1	4353.1	4349.2	4361.0	4351.1	4345.2
7.5°	4020.1	4077.6	4248.1	4353.1	4404.7	4406.6	4359.1	4303.6	4275.8	4252.0	4244.1
10°	4099.4	4184.6	4371.0	4440.3	4424.5	4351.1	4246.1	4158.9	4109.3	4073.6	4065.7
12.5°	4208.4	4303.6	4480.0	4478.0	4378.9	4248.1	4125.2	4020.1	3948.7	3907.1	3893.2
15°	4311.5	4432.4	4559.3	4466.1	4309.5	4150.9	3992.3	3851.6	3756.4	3691.0	3679.1
17.5°	4438.4	4567.2	4616.8	4428.4	4222.3	4018.1	3806.0	3621.7	3492.8	3415.5	3409.5
20°	4585.0	4700.0	4644.5	4363.0	4109.3	3841.7	3554.3	3348.1	3209.3	3134.0	3140.0
22.5°	4755.5	4838.8	4652.4	4273.8	3952.7	3591.9	3270.8	3072.6	2979.4	2939.7	2941.7
25°	4937.9	4991.4	4638.6	4152.9	3712.8	3286.6	2979.4	2888.2	2880.3	2870.4	2874.3
27.5°	5154.0	5142.1	4596.9	3982.4	3389.7	2931.8	2775.2	2799.0	2830.7	2826.8	2830.7
30°	5443.4	5330.4	4543.4	3746.5	3005.2	2634.5	2654.3	2721.7	2763.3	2767.3	2779.2
32.5°	5774.4	5538.5	4458.2	3425.4	2638.4	2468.0	2541.3	2622.6	2672.1	2682.0	2697.9
35°	6168.9	5776.4	4307.5	3025.0	2374.8	2368.8	2436.2	2491.7	2545.3	2549.2	2549.2
37.5°	6622.8	6014.3	4067.7	2582.9	2212.2	2283.6	2347.0	2358.9	2372.8	2360.9	2366.9
40°	7039.1	6244.2	3726.7	2180.5	2079.4	2208.3	2261.8	2222.2	2178.5	2148.8	2154.8
42.5°	7388.0	6400.8	3274.8	1899.0	1944.6	2140.9	2182.5	2101.2	2016.0	1960.5	1968.4
45°	7780.5	6545.5	2743.5	1708.7	1829.7	2093.3	2121.1	2016.0	1907.0	1823.7	1811.8
47.5°	8321.7	6840.9	2271.7	1575.9	1748.4	2067.5	2113.1	1970.4	1827.7	1702.8	1688.9
50°	8989.7	7259.2	1877.2	1488.7	1710.7	2053.7	2111.1	1920.8	1750.4	1603.7	1593.8
52.5°	9719.2	7667.5	1585.8	1421.3	1673.1	2012.0	2101.2	1865.3	1669.1	1510.5	1498.6
55°	10204.9	7828.1	1389.6	1357.9	1611.6	1946.6	2061.6	1811.8	1546.2	1401.5	1383.6
57.5°	10347.6	7621.9	1252.8	1300.4	1532.3	1855.4	1986.3	1698.8	1470.9	1355.9	1342.0
60°	10101.8	7102.6	1167.6	1252.8	1445.1	1738.5	1855.4	1633.4	1411.4	1308.3	1298.4
62.5°	9408.0	6301.7	1102.2	1203.3	1355.9	1615.6	1772.2	1554.1	1346.0	1264.7	1250.8
65°	8012.4	5167.8	1048.6	1151.7	1270.7	1498.6	1681.0	1474.8	1274.6	1213.2	1197.3
67.5°	5603.9	3629.6	991.1	1090.3	1185.4	1385.6	1585.8	1401.5	1201.3	1155.7	1139.8
70°	2739.5	1924.8	921.8	1018.9	1094.2	1270.7	1490.7	1312.3	1104.1	1078.4	1056.6
72.5°	1304.3	1076.4	840.5	921.8	969.3	1118.0	1332.1	1183.4	989.2	933.7	896.0
75°	874.2	765.2	733.4	806.8	818.7	937.6	1141.8	1020.9	872.2	808.8	777.1
77.5°	662.1	584.8	616.5	681.9	658.1	771.1	939.6	909.9	787.0	729.5	713.6
80°	465.8	426.2	489.6	529.3	511.4	656.1	846.4	779.0	648.2	584.8	572.9
82.5°	293.4	285.5	360.8	366.7	372.7	519.4	695.8	612.5	503.5	414.3	384.6
85°	146.7	162.5	216.1	216.1	214.1	267.6	396.5	344.9	271.6	216.1	210.1
87.5°	49.6	69.4	93.2	75.3	57.5	45.6	51.5	63.4	67.4	65.4	65.4
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)