

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: P643457

Luminaire Tested: GWS-SA6E-830-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-830-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35255.8 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

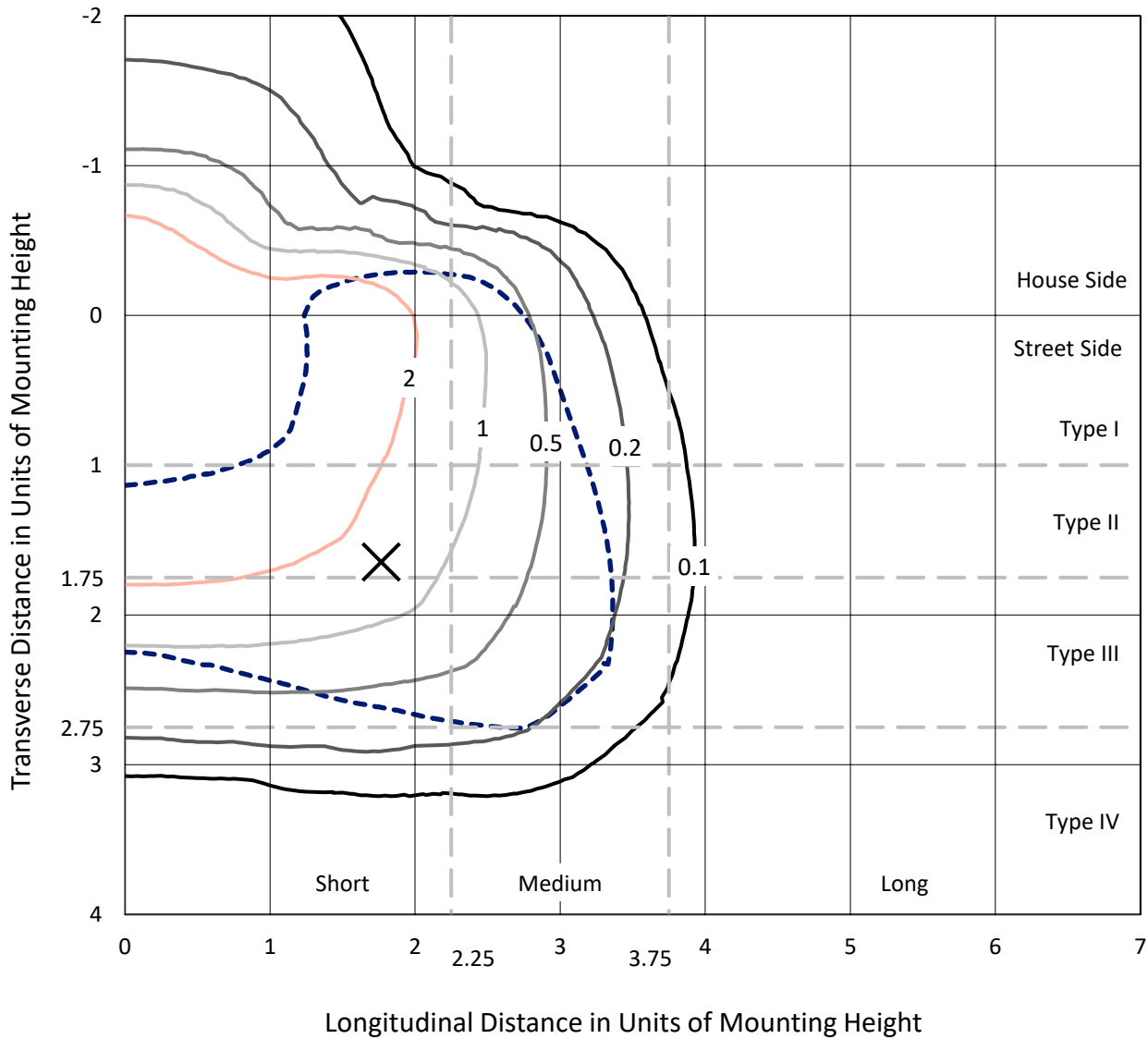
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

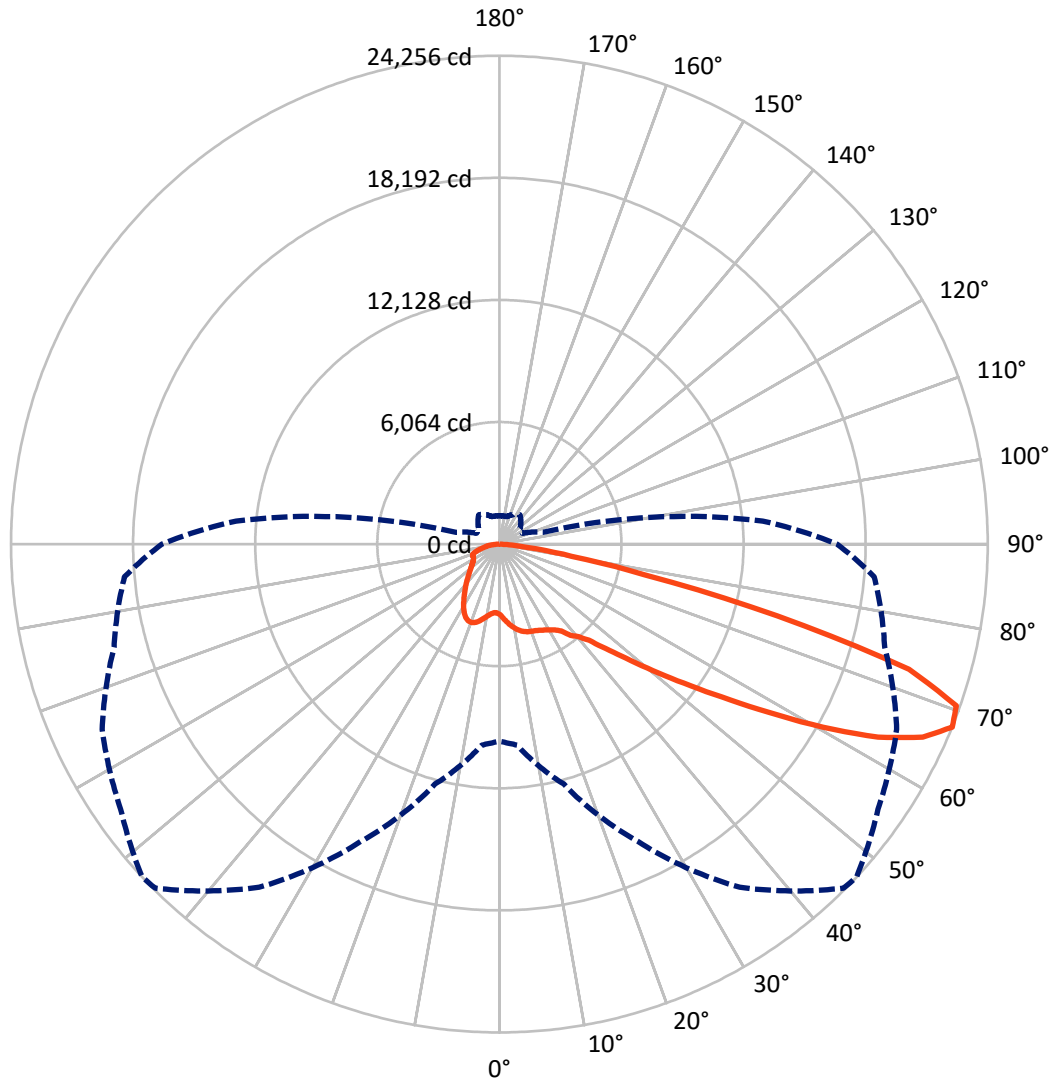
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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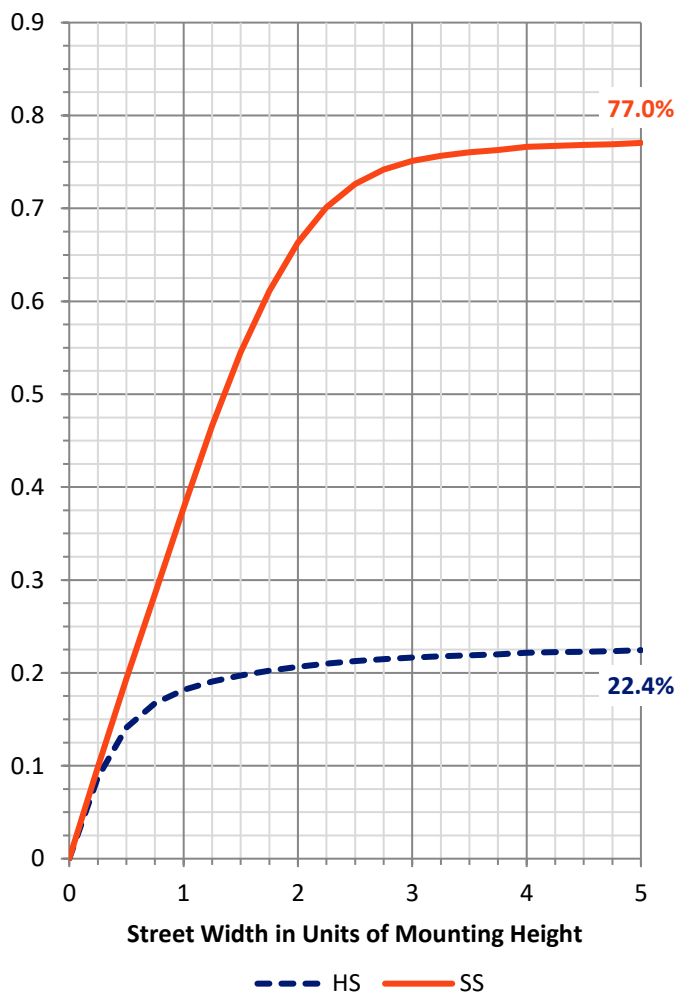
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8035.1	0.0	8035.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	27220.7	0.0	27220.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	35255.8	0.0	35255.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.2	1.0
10°-20°	1190.0	3.4
20°-30°	2022.7	5.7
30°-40°	2963.1	8.4
40°-50°	4514.6	12.8
50°-60°	8077.6	22.9
60°-70°	10778.7	30.6
70°-80°	4874.4	13.8
80°-90°	477.6	1.4
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°	35255.8	100.0
0°-180°	35255.8	100.0

Coefficient of Utilization



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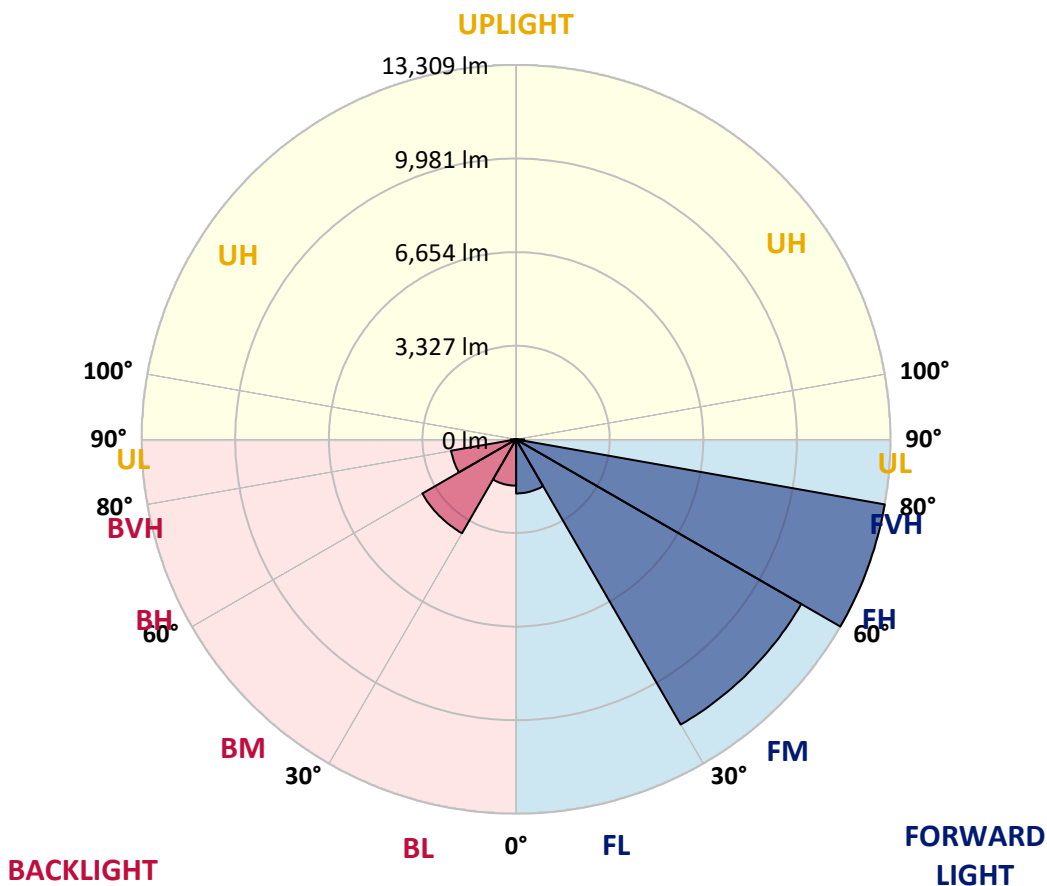
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1922.7	5.5			
FM (30°-60°)	11705.3	33.2			
FH (60°-80°)	13308.7	37.7			G5
FVH (80°-90°)	284.1	0.8			G3/500
BL (0°-30°)	1647.2	4.7	B3/2500		
BM (30°-60°)	3850.0	10.9	B3/5000		
BH (60°-80°)	2344.4	6.6	B3/2500		G3/2500
BVH (80°-90°)	193.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3495.0	3495.0	3495.0	3495.0	3495.0	3495.0	3495.0	3495.0	3495.0	3495.0	3495.0
2.5°	3726.9	3739.7	3737.1	3716.7	3704.0	3681.1	3683.6	3647.9	3594.4	3558.7	3517.9
5°	4055.8	4076.2	4050.7	4017.6	3966.6	3892.6	3885.0	3803.4	3701.5	3630.1	3556.1
7.5°	4341.3	4354.0	4323.5	4267.4	4193.4	4094.0	4076.2	3979.3	3851.9	3739.7	3632.6
10°	4563.1	4578.4	4537.6	4463.7	4366.8	4267.4	4254.6	4155.2	4020.1	3887.5	3752.4
12.5°	4751.7	4756.8	4713.5	4614.1	4509.6	4407.6	4394.8	4303.1	4178.2	4043.0	3895.2
15°	4861.3	4863.9	4810.4	4700.7	4601.3	4512.1	4504.5	4425.4	4310.7	4183.3	4025.2
17.5°	4853.7	4858.8	4820.6	4723.7	4637.0	4583.5	4575.8	4524.8	4435.6	4320.9	4162.9
20°	4759.4	4764.5	4739.0	4675.2	4629.4	4614.1	4616.6	4601.3	4547.8	4453.5	4292.9
22.5°	4685.4	4693.1	4670.2	4624.3	4619.2	4654.9	4662.5	4670.2	4644.7	4560.5	4405.0
25°	4721.1	4733.9	4698.2	4634.5	4644.7	4723.7	4739.0	4764.5	4744.1	4672.7	4537.6
27.5°	4968.4	4976.1	4884.3	4754.3	4723.7	4807.8	4830.8	4871.5	4856.2	4790.0	4685.4
30°	5542.0	5536.9	5340.6	5021.9	4894.5	4927.6	4945.5	5004.1	5009.2	4965.9	4866.4
32.5°	6350.1	6324.6	6021.2	5513.9	5144.3	5062.7	5083.1	5162.1	5220.8	5174.9	5039.8
35°	7204.1	7181.1	6847.2	6253.2	5605.7	5322.7	5299.8	5361.0	5450.2	5322.7	5129.0
37.5°	8017.3	7981.6	7640.0	6905.8	6174.2	5779.1	5745.9	5684.7	5631.2	5386.5	5238.6
40°	8919.7	8878.9	8580.6	7749.6	6801.3	6128.3	6044.2	5802.0	5753.6	5598.1	5524.1
42.5°	9883.3	9883.3	9636.0	8817.7	7558.4	6627.9	6518.3	6153.8	6204.8	6102.8	6016.1
45°	10846.9	10874.9	10678.6	9893.5	8570.4	7571.2	7395.3	6877.8	7000.1	6954.2	6910.9
47.5°	11667.7	11721.3	11683.0	10992.2	9809.4	8718.3	8450.6	7912.7	8175.3	8284.9	8407.3
50°	12552.3	12610.9	12572.7	12299.9	11259.9	10107.6	9868.0	9312.3	9763.5	10092.3	10492.5
52.5°	13865.1	13949.3	13630.6	13526.1	13021.4	11685.6	11471.4	10839.2	11657.5	12203.1	13095.3
55°	14974.1	14971.5	14859.3	15099.0	14912.9	13615.3	13378.2	12804.7	13849.9	14428.5	15733.7
57.5°	15489.0	15550.2	15935.1	16613.2	16985.4	15973.3	15746.5	15160.1	16202.8	16503.6	17913.3
60°	15754.1	15830.6	16575.0	17915.8	18917.7	18548.0	18458.8	17711.9	18298.2	18262.5	19751.3
62.5°	15381.9	15534.9	16730.5	18512.4	20296.8	21135.5	21107.5	19978.2	20080.1	19730.9	20890.8
65°	13674.0	13839.7	15715.9	18214.1	21084.5	23103.5	23111.1	22030.3	21449.0	20444.7	20699.6
67.5°	9778.8	10015.8	12335.6	16297.1	20806.6	24166.5	24255.7	22960.7	21770.2	19812.5	18690.8
70°	5330.4	5503.7	7321.3	11846.2	18303.3	23911.6	24077.3	22512.1	20352.9	17138.3	14387.7
72.5°	2421.7	2477.8	3405.7	6500.5	12503.9	20582.3	21275.7	20090.3	16715.2	12659.4	9149.1
75°	1108.9	1134.4	1483.6	3110.0	6533.6	13773.4	14260.3	14963.9	11632.0	7994.3	4769.6
77.5°	695.9	703.6	843.8	1422.5	3257.9	6875.2	7387.6	8909.5	6811.5	3956.4	1993.5
80°	410.4	418.1	525.1	769.9	1529.5	3145.7	3632.6	3523.0	3201.8	1708.0	907.5
82.5°	206.5	214.1	303.4	438.5	833.6	1251.7	1473.4	1481.1	1193.0	925.4	512.4
85°	73.9	76.5	99.4	173.3	354.3	413.0	461.4	563.4	583.8	537.9	247.3
87.5°	0.0	0.0	2.5	5.1	10.2	40.8	43.3	81.6	170.8	191.2	99.4
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°	3495.0	3495.0	3495.0	3495.0	3495.0	3495.0	3495.0	3495.0	3495.0	3495.0	3495.0
2.5°	3505.2	3466.9	3454.2	3441.4	3421.0	3413.4	3398.1	3382.8	3382.8	3367.5	3359.9
5°	3523.0	3472.0	3438.9	3423.6	3410.8	3418.5	3418.5	3423.6	3441.4	3431.2	3436.3
7.5°	3586.7	3528.1	3482.2	3469.5	3469.5	3500.1	3520.5	3545.9	3579.1	3584.2	3584.2
10°	3698.9	3630.1	3581.6	3574.0	3586.7	3630.1	3660.7	3691.3	3732.0	3734.6	3739.7
12.5°	3821.3	3752.4	3704.0	3714.2	3726.9	3783.0	3816.2	3841.7	3882.4	3882.4	3879.9
15°	3948.7	3872.2	3831.5	3851.9	3890.1	3953.8	3958.9	3961.5	3981.9	3976.8	3974.2
17.5°	4081.3	3999.7	3969.1	3999.7	4040.5	4071.1	4045.6	4009.9	4002.3	3992.1	3987.0
20°	4211.3	4127.2	4114.4	4137.4	4150.1	4124.6	4045.6	3979.3	3948.7	3933.4	3928.3
22.5°	4323.5	4252.1	4244.4	4244.4	4180.7	4091.5	3974.2	3885.0	3844.2	3823.8	3818.7
25°	4456.0	4389.7	4377.0	4308.2	4145.0	3981.9	3823.8	3742.2	3709.1	3698.9	3701.5
27.5°	4611.5	4565.6	4524.8	4328.6	4043.0	3788.1	3609.7	3574.0	3561.2	3574.0	3581.6
30°	4802.7	4756.8	4665.1	4303.1	3879.9	3535.8	3365.0	3362.4	3400.6	3433.8	3438.9
32.5°	4958.2	4937.8	4787.4	4221.5	3650.5	3257.9	3112.6	3122.8	3191.6	3237.5	3245.1
35°	5080.6	5113.7	4889.4	4086.4	3377.7	2995.3	2880.6	2885.7	2923.9	2987.7	2990.2
37.5°	5253.9	5366.1	4981.2	3879.9	3064.1	2768.4	2663.9	2625.7	2620.6	2638.4	2643.5
40°	5603.2	5771.4	5047.4	3579.1	2760.8	2564.5	2447.2	2373.3	2309.6	2261.1	2245.9
42.5°	6130.8	6324.6	5085.7	3214.6	2490.6	2363.1	2230.6	2136.2	2024.1	1922.1	1886.4
45°	7099.5	7163.3	5085.7	2827.1	2251.0	2174.5	2041.9	1929.8	1787.0	1667.2	1641.7
47.5°	8649.5	8445.5	5090.8	2452.3	2039.4	2008.8	1894.1	1766.6	1608.6	1509.1	1493.8
50°	10984.5	10268.2	5195.3	2141.3	1863.5	1868.6	1784.4	1644.2	1501.5	1427.6	1414.8
52.5°	13630.6	12514.1	5475.7	1911.9	1715.6	1753.9	1708.0	1572.9	1445.4	1381.7	1368.9
55°	16118.6	14578.9	5715.3	1748.8	1590.7	1657.0	1654.4	1529.5	1414.8	1351.1	1343.4
57.5°	18234.5	15993.7	5679.6	1616.2	1483.6	1567.8	1606.0	1501.5	1394.4	1340.9	1333.2
60°	19549.9	16743.2	5172.3	1493.8	1402.1	1504.0	1578.0	1493.8	1404.6	1391.9	1394.4
62.5°	20120.9	16605.5	4198.5	1402.1	1348.5	1473.4	1608.6	1547.4	1498.9	1529.5	1547.4
65°	19233.8	15422.7	3089.6	1333.2	1297.5	1481.1	1679.9	1631.5	1498.9	1519.3	1527.0
67.5°	16771.2	13128.4	2233.1	1264.4	1233.8	1504.0	1781.9	1618.7	1412.3	1412.3	1397.0
70°	12085.8	9442.3	1621.3	1195.6	1170.1	1470.9	1787.0	1532.1	1312.8	1305.2	1267.0
72.5°	7272.9	5570.0	1264.4	1119.1	1073.2	1305.2	1674.8	1430.1	1216.0	1152.2	1106.4
75°	3777.9	2791.4	1060.5	1035.0	920.3	1106.4	1532.1	1272.1	1040.1	984.0	958.5
77.5°	1618.7	1305.2	910.1	922.8	764.8	930.5	1236.4	1101.3	922.8	851.4	828.5
80°	797.9	741.8	718.9	739.3	611.8	718.9	1065.6	963.6	782.6	701.0	667.9
82.5°	456.3	433.4	517.5	525.1	435.9	601.6	899.9	815.7	647.5	558.3	504.7
85°	211.6	226.9	313.6	316.1	270.2	413.0	588.9	458.9	344.1	285.5	272.8
87.5°	84.1	99.4	137.7	135.1	79.0	76.5	51.0	28.0	22.9	20.4	17.8
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)