

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: P640974

Luminaire Tested: GWS-SA5E-830-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-830-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29842.1 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

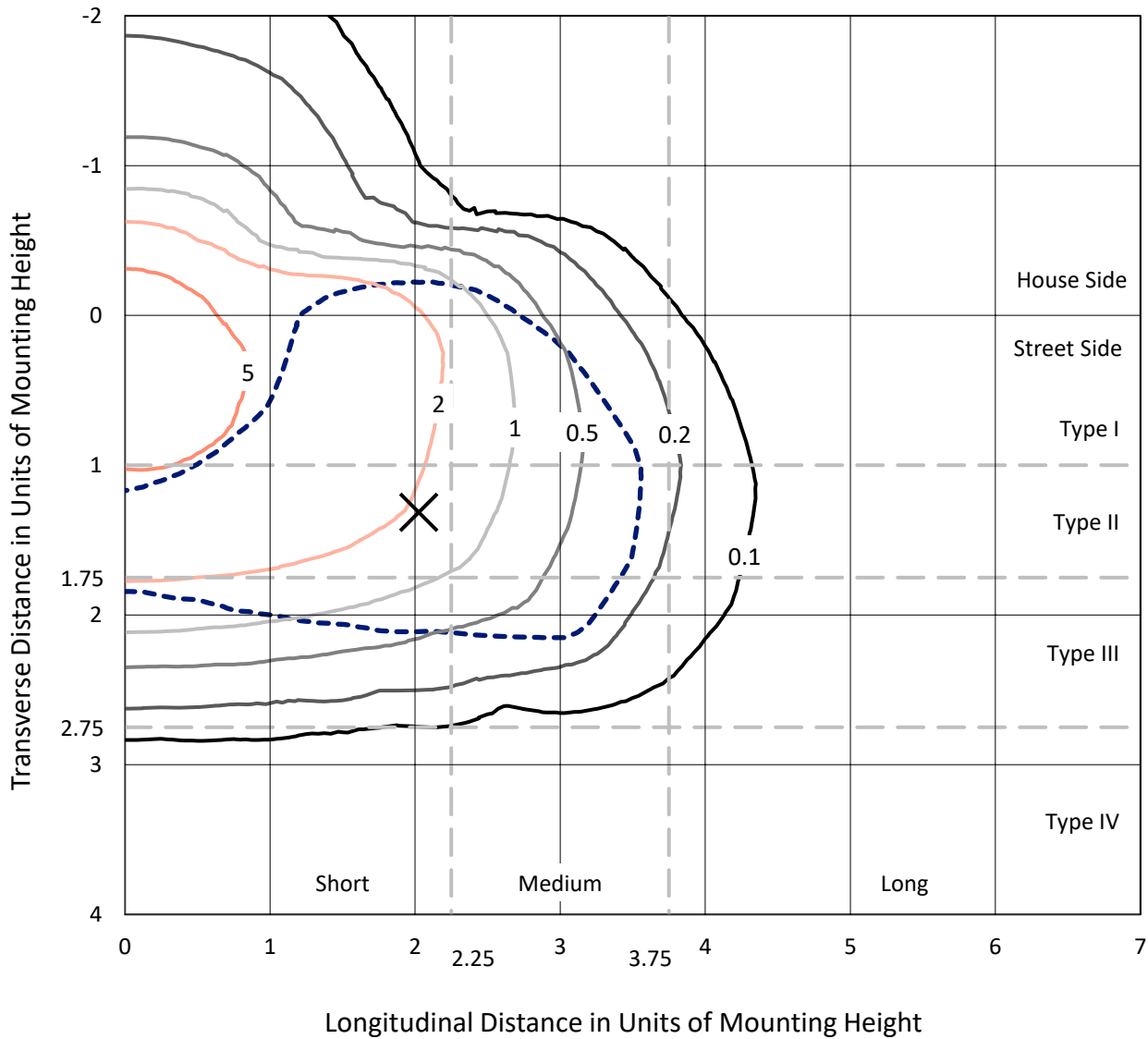
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

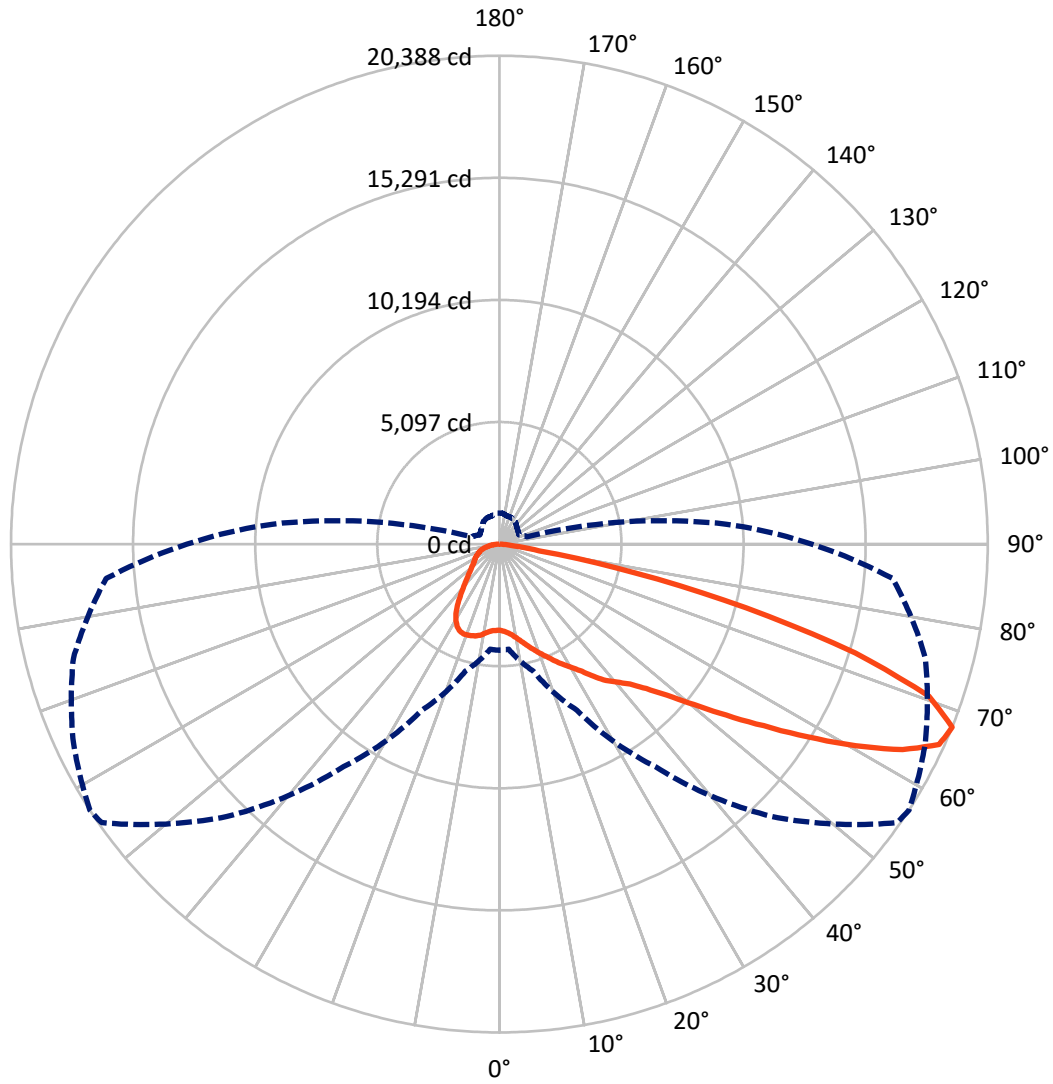
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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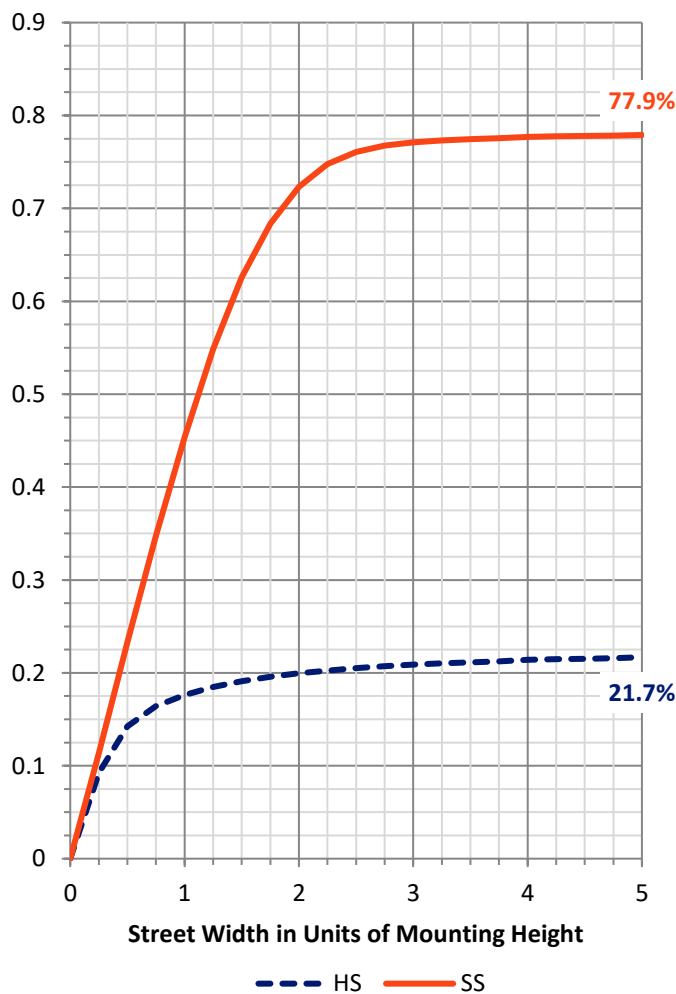
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6561.1	0.0	6561.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	23280.9	0.0	23280.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	29842.1	0.0	29842.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.6	1.2
10°-20°	1180.6	4.0
20°-30°	2104.8	7.1
30°-40°	3060.1	10.3
40°-50°	4429.0	14.8
50°-60°	6931.3	23.2
60°-70°	8085.8	27.1
70°-80°	3375.3	11.3
80°-90°	318.5	1.1
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°	29842.1	100.0
0°-180°	29842.1	100.0

Coefficient of Utilization



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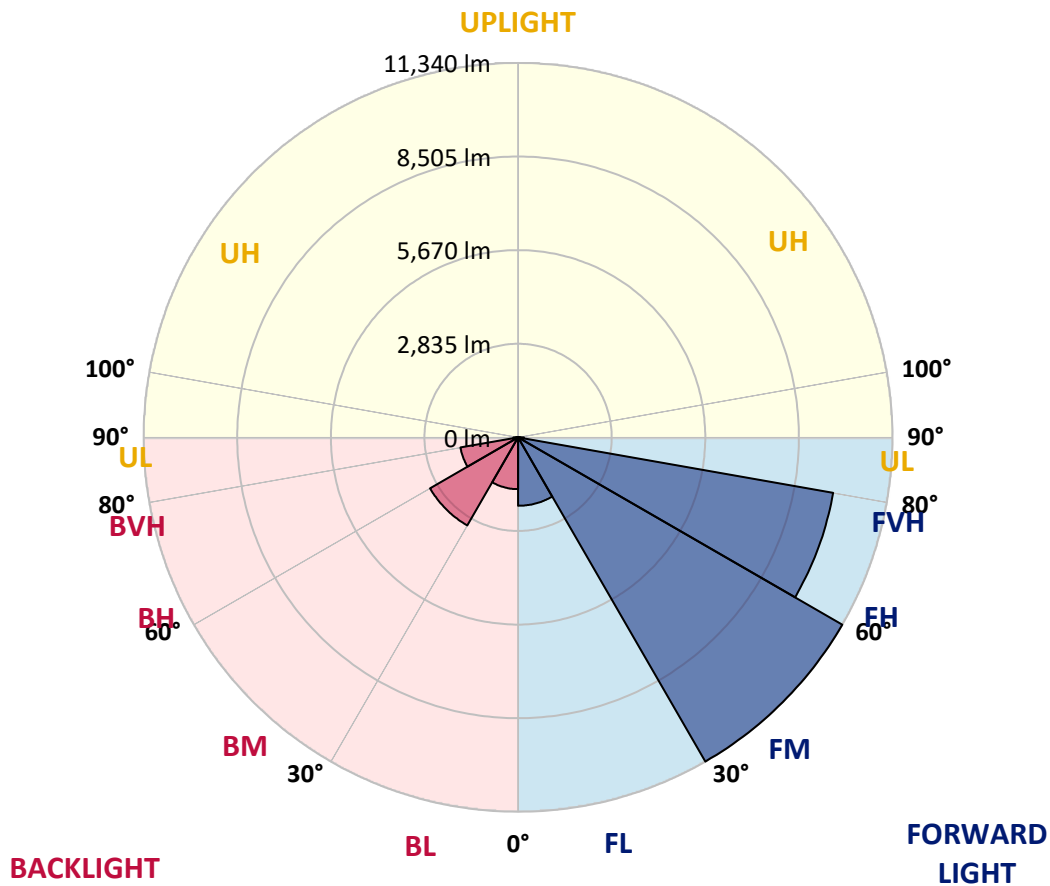
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2072.8	6.9			
FM (30°-60°)	11340.4	38.0			
FH (60°-80°)	9690.2	32.5			G4/12000
FVH (80°-90°)	177.5	0.6			G2/225
BL (0°-30°)	1569.2	5.3	B3/2500		
BM (30°-60°)	3080.0	10.3	B3/5000		
BH (60°-80°)	1770.9	5.9	B3/2500		G3/2500
BVH (80°-90°)	141.1	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3595.8	3595.8	3595.8	3595.8	3595.8	3595.8	3595.8	3595.8	3595.8	3595.8	3595.8
2.5°	3647.1	3642.8	3640.7	3653.5	3649.2	3647.1	3647.1	3644.9	3640.7	3623.6	3600.0
5°	3747.6	3739.0	3730.5	3741.1	3732.6	3724.0	3721.9	3717.6	3702.7	3677.0	3640.7
7.5°	3852.3	3843.8	3845.9	3852.3	3845.9	3841.6	3835.2	3830.9	3807.4	3766.8	3717.6
10°	3999.8	3999.8	4004.1	4010.5	4012.6	4006.2	3993.4	3987.0	3959.2	3907.9	3839.5
12.5°	4213.6	4209.3	4209.3	4205.0	4211.5	4205.0	4192.2	4181.5	4147.3	4081.0	3982.7
15°	4495.8	4478.7	4463.7	4435.9	4427.4	4403.9	4408.1	4401.7	4369.7	4279.9	4155.9
17.5°	4797.2	4795.1	4771.6	4716.0	4660.4	4621.9	4630.5	4628.3	4611.2	4489.4	4331.2
20°	5062.3	5073.0	5051.6	5008.9	4934.0	4861.3	4857.1	4867.8	4846.4	4724.5	4504.3
22.5°	5359.5	5350.9	5329.5	5273.9	5218.4	5141.4	5115.7	5107.2	5098.6	4959.7	4681.8
25°	5641.6	5667.3	5639.5	5588.2	5502.7	5419.3	5397.9	5406.5	5383.0	5199.1	4872.0
27.5°	5998.7	6009.3	5992.2	5921.7	5849.0	5731.4	5690.8	5690.8	5682.3	5423.6	5021.7
30°	6379.2	6409.1	6379.2	6321.5	6246.6	6077.7	5990.1	5981.5	5955.9	5654.5	5197.0
32.5°	6761.8	6783.2	6761.8	6706.3	6620.7	6473.2	6347.1	6327.9	6293.7	5906.7	5376.6
35°	7101.8	7121.0	7116.7	7129.5	7059.0	6873.0	6796.0	6787.5	6697.7	6235.9	5620.3
37.5°	7473.7	7497.2	7465.2	7490.8	7463.0	7287.7	7264.2	7221.5	7093.2	6545.9	5876.8
40°	7897.0	7918.4	7867.1	7877.8	7845.7	7747.4	7627.6	7569.9	7379.7	6881.6	6280.8
42.5°	8350.2	8399.4	8422.9	8403.7	8328.8	8273.3	8063.8	7991.1	7832.9	7486.6	6945.7
45°	9006.5	9079.2	9113.4	9064.2	9032.2	8953.1	8696.5	8608.9	8525.5	8339.5	7873.5
47.5°	9714.1	9780.4	9889.4	9910.8	9936.5	9876.6	9515.3	9429.8	9444.8	9423.4	9015.1
50°	10278.5	10334.1	10579.9	10842.9	11060.9	11078.0	10616.3	10524.4	10605.6	10674.0	10389.7
52.5°	10689.0	10738.1	11063.1	11606.1	12099.9	12465.5	11967.4	11862.6	11928.9	12082.8	11952.4
55°	11022.5	11090.9	11430.8	12264.5	13262.9	13840.1	13521.5	13389.0	13361.2	13551.5	13626.3
57.5°	11197.8	11219.1	11695.9	12779.7	14115.9	15189.0	15328.0	15178.3	14913.3	15018.0	15407.1
60°	10798.0	10834.3	11486.4	12912.3	14789.3	16527.3	17224.2	17100.2	16535.8	16593.6	17023.3
62.5°	9692.8	9744.1	10528.6	12281.6	14844.8	17420.9	18975.1	18896.0	18139.2	17827.1	17955.3
65°	7775.2	7792.3	8604.6	10721.0	13739.6	17532.1	20195.7	20176.5	19259.4	18528.3	17978.8
67.5°	4433.8	4403.9	5489.9	7646.9	11338.9	16086.9	20274.8	20388.1	19622.8	18412.8	16482.4
70°	1921.9	1926.2	2426.4	3773.2	7339.0	13002.1	18831.8	19026.4	18571.0	16490.9	13113.2
72.5°	889.3	902.1	1118.1	1633.3	3134.0	8065.9	15355.8	15531.1	15139.9	13198.7	9541.0
75°	628.5	639.2	746.1	936.4	1440.9	3142.6	10272.1	10639.8	10830.1	9872.3	6287.3
77.5°	476.7	491.7	545.1	649.9	889.3	1113.8	4914.8	5791.3	6898.7	6141.9	3238.8
80°	303.6	303.6	361.3	434.0	543.0	579.3	1419.5	1682.4	3375.6	2531.1	1272.0
82.5°	205.2	211.6	245.8	275.8	312.1	329.2	609.3	649.9	974.8	861.5	523.8
85°	109.0	113.3	128.3	126.1	149.6	130.4	256.5	254.4	357.0	391.2	198.8
87.5°	0.0	0.0	2.1	2.1	4.3	6.4	27.8	29.9	74.8	119.7	66.3
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°	3595.8	3595.8	3595.8	3595.8	3595.8	3595.8	3595.8	3595.8	3595.8	3595.8	3595.8
2.5°	3612.9	3587.2	3600.0	3595.8	3608.6	3608.6	3585.1	3578.7	3580.8	3555.2	3546.6
5°	3644.9	3615.0	3621.4	3612.9	3625.7	3636.4	3625.7	3625.7	3638.5	3619.3	3608.6
7.5°	3717.6	3683.4	3683.4	3672.7	3687.7	3696.2	3687.7	3700.5	3724.0	3704.8	3694.1
10°	3833.1	3792.4	3794.6	3781.8	3788.2	3783.9	3749.7	3739.0	3745.4	3728.3	3719.8
12.5°	3982.7	3927.1	3927.1	3901.5	3886.5	3841.6	3771.1	3745.4	3749.7	3734.7	3728.3
15°	4125.9	4074.6	4063.9	4012.6	3944.2	3860.9	3796.7	3779.6	3783.9	3768.9	3758.2
17.5°	4294.8	4228.6	4190.1	4096.0	3969.9	3884.4	3820.2	3779.6	3745.4	3711.2	3702.7
20°	4450.9	4367.5	4297.0	4151.6	3997.7	3880.1	3760.4	3659.9	3576.5	3531.6	3520.9
22.5°	4611.2	4504.3	4380.3	4190.1	3995.5	3803.1	3582.9	3431.2	3307.2	3240.9	3253.7
25°	4763.0	4628.3	4459.4	4226.4	3927.1	3632.1	3332.8	3106.2	2965.1	2913.8	2898.8
27.5°	4889.1	4722.4	4532.1	4209.3	3786.0	3386.3	2990.8	2738.5	2601.7	2544.0	2529.0
30°	5030.2	4842.1	4636.9	4130.2	3563.7	3042.1	2603.8	2398.6	2300.3	2244.7	2246.8
32.5°	5192.7	4996.0	4784.4	3978.4	3279.4	2670.1	2285.3	2144.2	2065.1	2009.5	2001.0
35°	5410.8	5216.2	4882.7	3749.7	2918.1	2328.1	2067.2	1951.8	1853.5	1780.8	1765.8
37.5°	5680.1	5547.6	4893.4	3444.0	2531.1	2092.9	1911.2	1787.2	1667.5	1571.3	1560.6
40°	6141.9	5990.1	4805.8	3061.3	2201.9	1941.1	1780.8	1637.6	1498.6	1391.7	1376.7
42.5°	6800.3	6488.2	4617.6	2629.5	1953.9	1821.4	1656.8	1475.1	1334.0	1259.2	1248.5
45°	7638.3	7044.0	4335.4	2223.3	1770.1	1703.8	1526.4	1336.1	1261.3	1207.9	1197.2
47.5°	8664.5	7691.8	4010.5	1906.9	1626.9	1596.9	1393.8	1289.1	1222.8	1177.9	1167.2
50°	9891.6	8517.0	3743.3	1658.9	1498.6	1472.9	1351.1	1261.3	1207.9	1171.5	1163.0
52.5°	11291.8	9434.1	3612.9	1481.5	1387.4	1361.8	1336.1	1254.9	1210.0	1182.2	1171.5
55°	12745.5	10400.4	3491.0	1344.7	1293.4	1308.3	1338.3	1276.3	1242.1	1205.7	1195.0
57.5°	14150.1	11306.8	3191.7	1237.8	1225.0	1282.7	1348.9	1297.6	1257.0	1220.7	1207.9
60°	15118.5	11802.8	2685.1	1152.3	1173.6	1250.6	1321.2	1265.6	1214.3	1199.3	1192.9
62.5°	15379.3	11742.9	2084.3	1064.6	1111.7	1180.1	1248.5	1212.1	1158.7	1182.2	1184.3
65°	14770.0	11101.6	1564.9	979.1	1030.4	1088.1	1173.6	1158.7	1139.4	1203.6	1205.7
67.5°	13044.8	9526.0	1192.9	904.3	947.0	1017.6	1150.1	1212.1	1216.4	1297.6	1289.1
70°	9870.2	7116.7	934.2	833.7	882.9	1017.6	1225.0	1252.7	1201.4	1276.3	1259.2
72.5°	6823.8	4696.7	795.3	771.7	803.8	970.6	1222.8	1222.8	1167.2	1167.2	1135.2
75°	4239.2	2762.0	692.6	692.6	692.6	848.7	1188.6	1126.6	1028.3	983.4	957.7
77.5°	2092.9	1342.5	581.5	602.9	579.3	709.7	970.6	921.4	861.5	814.5	797.4
80°	893.6	671.3	470.3	493.8	466.0	534.4	769.6	758.9	701.2	639.2	620.0
82.5°	410.5	346.3	376.3	386.9	339.9	401.9	562.2	562.2	530.2	444.7	412.6
85°	175.3	183.9	260.8	260.8	213.8	226.6	301.4	286.5	256.5	209.5	192.4
87.5°	59.9	89.8	132.5	115.4	44.9	19.2	10.7	4.3	0.0	0.0	0.0
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)