

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: P637672

Luminaire Tested: GWS-SA4D-730-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637672  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-730-U-T3-W-GRSW  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

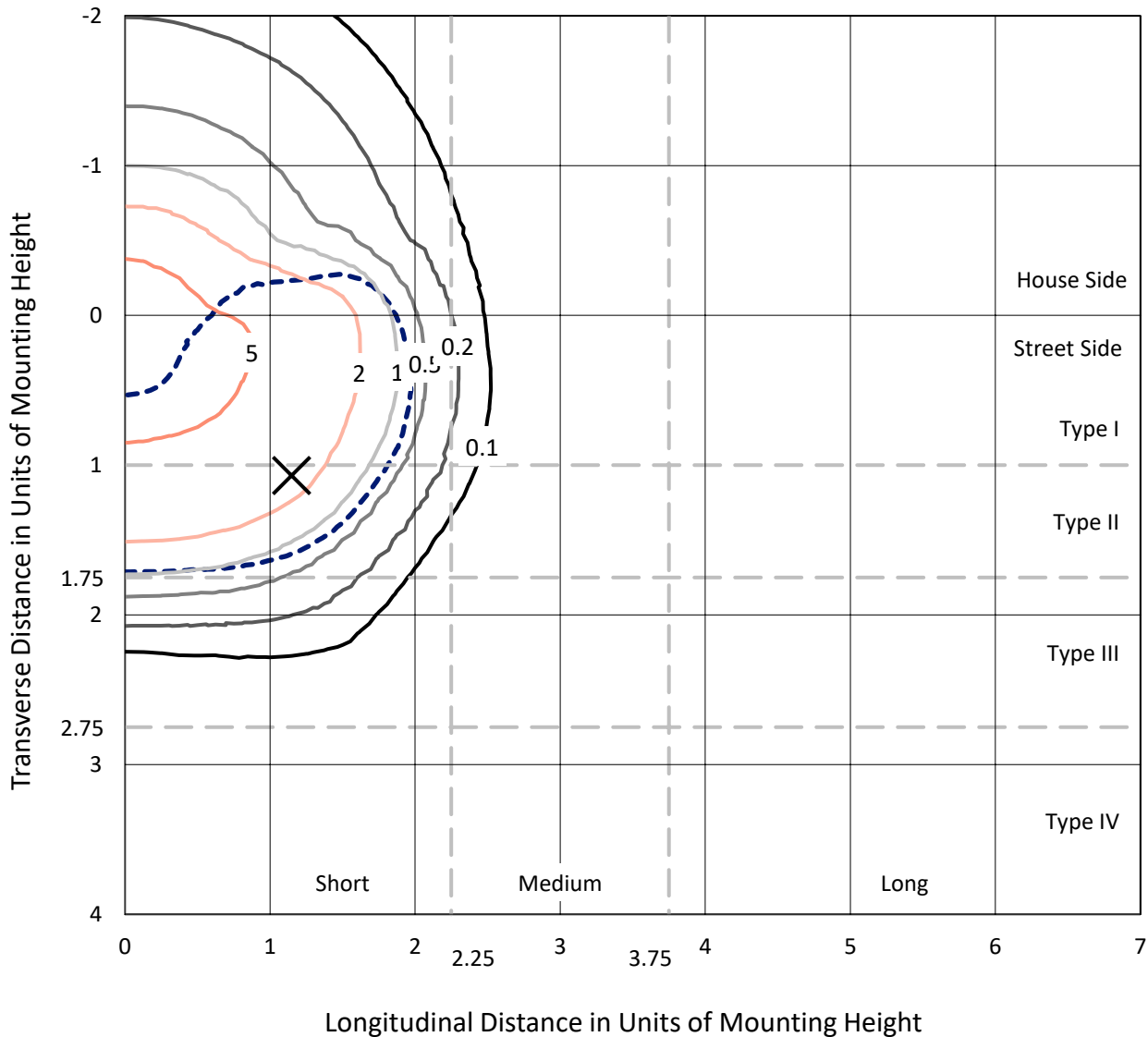
Lumens per Lamp: N/A  
Luminaire Lumens: 19033.2 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

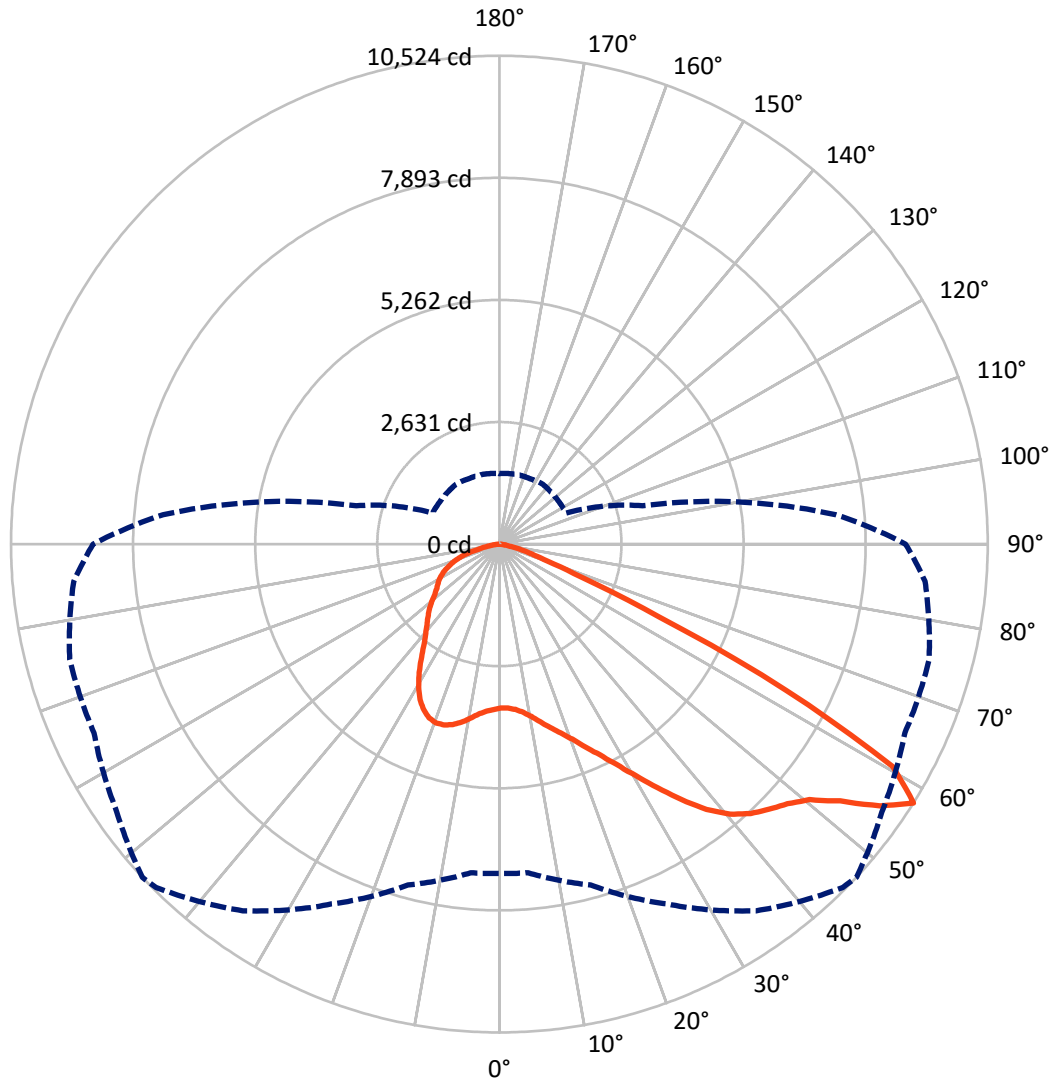
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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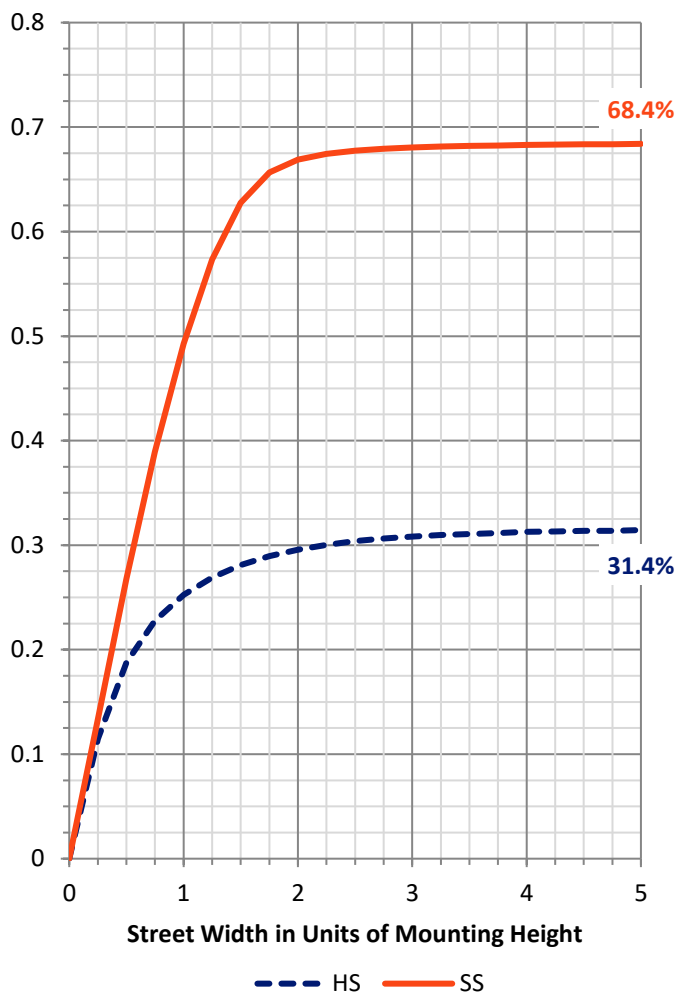
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6024.0	0.0	6024.0
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	13009.2	0.0	13009.2
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	19033.2	0.0	19033.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.1	1.8
10°-20°	1145.1	6.0
20°-30°	2061.8	10.8
30°-40°	3114.1	16.4
40°-50°	4193.5	22.0
50°-60°	5039.1	26.5
60°-70°	2454.1	12.9
70°-80°	604.6	3.2
80°-90°	72.7	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°	19033.2	100.0
0°-180°	19033.2	100.0

**Coefficient of Utilization**



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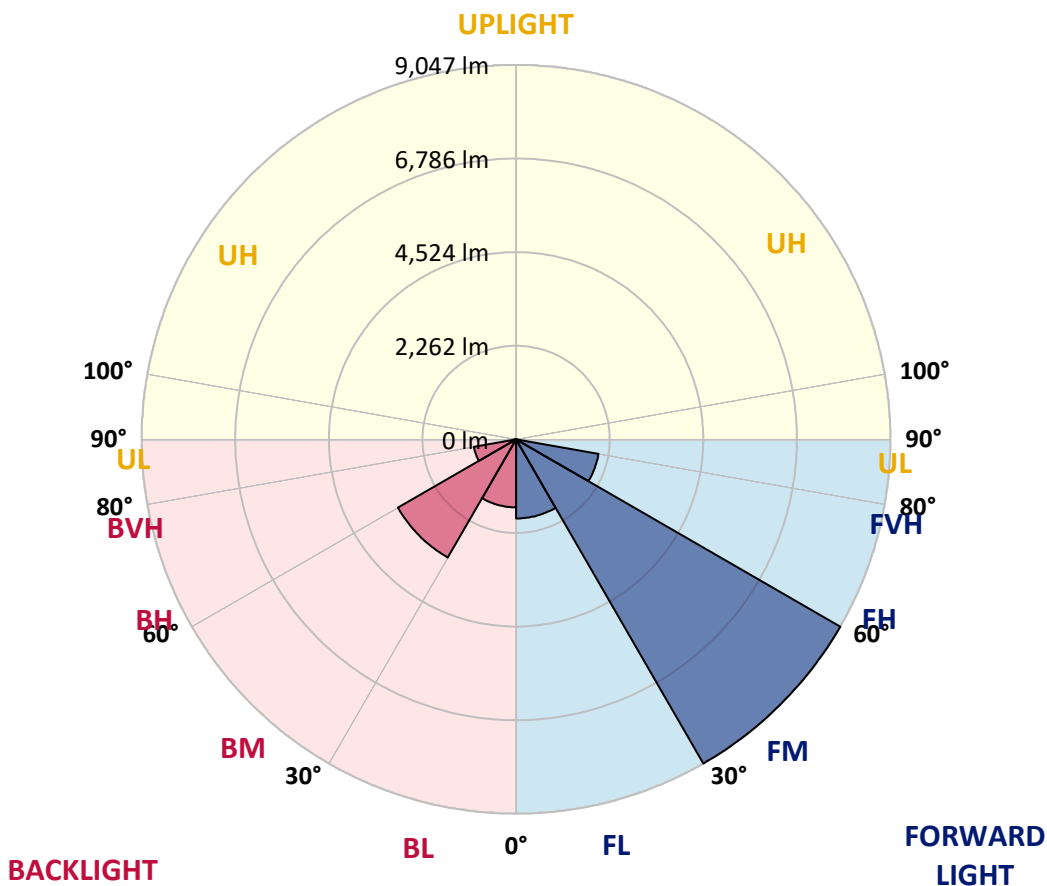
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1911.8	10.0			
FM (30°-60°)	9047.5	47.5			
FH (60°-80°)	2022.7	10.6			G2/5000
FVH (80°-90°)	27.3	0.1			G1/100
BL (0°-30°)	1643.2	8.6	B3/2500		
BM (30°-60°)	3299.3	17.3	B3/5000		
BH (60°-80°)	1036.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	45.4	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°	47°	55°	65°	75°	85°
0°	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7
2.5°	3523.3	3521.7	3521.7	3531.3	3531.3	3534.5	3539.3	3544.1	3545.7	3537.7	3520.1
5°	3561.7	3561.7	3561.7	3569.7	3569.7	3572.9	3579.3	3580.9	3579.3	3566.5	3548.9
7.5°	3622.5	3622.5	3624.1	3633.6	3641.6	3646.4	3657.6	3656.0	3651.2	3630.4	3608.1
10°	3721.6	3726.4	3731.2	3742.3	3758.3	3769.5	3777.5	3777.5	3771.1	3739.2	3710.4
12.5°	3862.2	3868.6	3873.4	3883.0	3895.8	3915.0	3932.6	3932.6	3924.6	3884.6	3841.5
15°	4026.9	4033.3	4031.7	4034.9	4058.9	4086.1	4100.4	4110.0	4113.2	4057.3	3990.1
17.5°	4215.5	4221.9	4215.5	4205.9	4209.1	4252.3	4277.9	4313.1	4333.8	4258.7	4151.6
20°	4386.6	4380.2	4380.2	4386.6	4396.2	4448.9	4487.3	4544.9	4570.4	4479.3	4313.1
22.5°	4567.2	4581.6	4575.2	4575.2	4613.6	4701.5	4747.9	4823.0	4850.2	4731.9	4508.1
25°	4800.6	4813.4	4810.2	4813.4	4858.2	4982.9	5029.2	5168.3	5195.5	5026.0	4723.9
27.5°	5056.4	5077.2	5086.8	5083.6	5155.5	5318.6	5376.1	5569.6	5619.1	5355.3	4954.1
30°	5388.9	5411.3	5419.3	5416.1	5500.8	5723.0	5788.6	6009.2	6079.5	5745.4	5246.6
32.5°	5774.2	5796.6	5820.5	5830.1	5938.8	6165.8	6260.2	6488.8	6589.5	6196.2	5599.9
35°	6156.3	6175.4	6221.8	6296.9	6445.6	6677.4	6760.5	6985.9	7083.4	6664.6	6026.8
37.5°	6578.3	6591.1	6631.0	6735.0	6949.2	7169.8	7252.9	7468.7	7479.9	7117.0	6509.5
40°	7040.3	7040.3	7032.3	7134.6	7358.4	7580.6	7652.6	7777.2	7711.7	7465.5	6979.5
42.5°	7431.9	7425.6	7431.9	7527.9	7694.1	7874.8	7937.1	7913.1	7830.0	7732.5	7404.8
45°	7785.2	7790.0	7847.6	7921.1	8007.4	8114.6	8151.3	8015.4	7940.3	7946.7	7745.3
47.5°	8025.0	8029.8	8164.1	8287.2	8340.0	8373.5	8357.5	8168.9	8130.5	8202.5	8007.4
50°	8057.0	8082.6	8314.4	8567.0	8698.0	8702.8	8658.1	8427.9	8416.7	8498.2	8148.1
52.5°	8063.4	8089.0	8378.3	8833.9	9174.4	9246.4	9195.2	8955.4	8838.7	8757.2	8320.8
55°	8039.4	8068.2	8387.9	9013.0	9665.2	9953.0	9957.8	9618.8	9246.4	9192.0	8813.1
57.5°	7097.8	7109.0	7604.6	8557.4	9646.0	10461.3	10523.7	10063.3	9638.0	9586.9	9208.0
60°	4944.5	4989.3	5528.0	6786.1	8103.4	9540.5	9741.9	9607.7	9323.1	8950.6	7900.3
62.5°	2476.2	2514.6	3054.9	4244.3	5588.7	6723.8	6939.6	7081.8	7149.0	6749.3	5379.3
65°	1066.3	1095.0	1430.8	2217.3	3163.7	3712.0	3787.1	3958.2	4377.0	3905.4	2898.3
67.5°	713.0	732.2	903.2	1352.4	1864.0	1899.2	1888.0	1924.7	2015.8	1664.2	1309.3
70°	546.7	562.7	677.8	991.1	1339.6	1146.2	1085.5	984.7	1069.5	1090.3	1061.5
72.5°	396.5	409.2	495.6	676.2	839.3	732.2	722.6	773.7	888.8	920.8	903.2
75°	255.8	262.2	314.9	370.9	433.2	470.0	489.2	581.9	698.6	722.6	701.8
77.5°	171.1	175.8	206.2	238.2	246.2	247.8	254.2	295.7	375.7	420.4	415.6
80°	89.5	89.5	100.7	100.7	115.1	137.5	143.9	171.1	207.8	230.2	231.8
82.5°	35.2	36.8	43.2	48.0	57.6	70.3	75.1	89.5	108.7	124.7	139.1
85°	14.4	16.0	17.6	20.8	25.6	32.0	33.6	38.4	51.2	63.9	71.9
87.5°	0.0	0.0	1.6	1.6	3.2	4.8	4.8	6.4	8.0	14.4	19.2
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°	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7
2.5°	3540.9	3520.1	3540.9	3547.3	3564.9	3571.3	3560.1	3558.5	3558.5	3542.5	3537.7
5°	3564.9	3545.7	3566.5	3576.1	3601.7	3617.7	3620.9	3633.6	3641.6	3635.2	3633.6
7.5°	3624.1	3600.1	3622.5	3636.8	3670.4	3696.0	3707.2	3736.0	3756.7	3753.5	3751.9
10°	3728.0	3696.0	3721.6	3745.5	3782.3	3812.7	3814.3	3830.3	3851.1	3844.7	3841.5
12.5°	3847.9	3817.5	3846.3	3870.2	3913.4	3926.2	3905.4	3899.0	3902.2	3894.2	3887.8
15°	3994.9	3951.8	3977.3	4004.5	4028.5	4014.1	3969.4	3951.8	3950.2	3939.0	3932.6
17.5°	4142.0	4087.6	4106.8	4121.2	4110.0	4065.3	4009.3	3978.9	3964.6	3942.2	3935.8
20°	4287.5	4218.7	4215.5	4204.3	4153.2	4071.7	3996.5	3935.8	3899.0	3868.6	3857.4
22.5°	4453.7	4357.8	4309.9	4258.7	4146.8	4014.1	3900.6	3814.3	3755.1	3716.8	3704.0
25°	4632.8	4496.9	4397.8	4295.5	4082.9	3891.0	3732.8	3614.5	3544.1	3502.6	3488.2
27.5°	4810.2	4623.2	4474.5	4300.3	3955.0	3713.6	3501.0	3341.1	3270.8	3237.2	3226.0
30°	5050.0	4791.0	4565.6	4237.9	3787.1	3467.4	3202.0	3040.6	2994.2	2970.2	2960.6
32.5°	5326.6	5003.7	4687.1	4106.8	3572.9	3179.6	2899.9	2788.0	2756.0	2709.6	2708.0
35°	5691.1	5307.4	4802.2	3913.4	3302.7	2871.1	2668.1	2588.2	2530.6	2457.1	2450.7
37.5°	6116.3	5686.3	4864.6	3667.2	2987.8	2616.9	2495.4	2405.9	2313.2	2215.7	2202.9
40°	6555.9	6129.1	4869.4	3376.3	2679.3	2449.1	2346.8	2230.1	2115.0	2006.3	1991.9
42.5°	7017.9	6541.5	4784.6	3040.6	2426.7	2303.6	2199.7	2052.6	1923.1	1849.6	1841.6
45°	7430.3	6874.0	4592.8	2687.3	2239.7	2182.1	2049.4	1891.2	1822.4	1769.7	1758.5
47.5°	7754.9	7094.6	4333.8	2370.7	2087.8	2057.4	1884.8	1803.2	1750.5	1702.5	1691.3
50°	7914.7	7144.2	3996.5	2113.4	1947.1	1910.3	1792.0	1729.7	1694.5	1656.2	1646.6
52.5°	8113.0	7200.1	3705.6	1897.6	1809.6	1760.1	1715.3	1665.8	1640.2	1616.2	1608.2
55°	8568.6	7411.2	3552.1	1724.9	1678.5	1656.2	1649.8	1608.2	1600.2	1584.2	1569.8
57.5°	8754.0	7275.3	3189.2	1584.2	1574.6	1577.8	1593.8	1555.4	1547.5	1528.3	1518.7
60°	7040.3	5499.2	2159.7	1462.7	1488.3	1509.1	1525.1	1486.7	1475.5	1472.3	1459.5
62.5°	4511.3	3382.7	1507.5	1349.2	1387.6	1413.2	1422.8	1386.0	1378.0	1403.6	1405.2
65°	2348.4	1843.2	1222.9	1227.7	1259.7	1298.1	1317.3	1304.5	1301.3	1328.4	1330.0
67.5°	1199.0	1127.0	1066.3	1083.9	1109.4	1159.0	1203.8	1259.7	1278.9	1282.1	1283.7
70°	1021.5	989.5	959.2	970.4	997.5	1024.7	1067.9	1095.0	1063.1	1055.1	1051.9
72.5°	869.6	845.7	831.3	844.1	858.5	853.7	840.9	853.7	858.5	860.1	861.7
75°	676.2	658.6	647.4	649.0	649.0	631.5	607.5	593.1	577.1	564.3	564.3
77.5°	414.0	417.2	428.4	426.8	425.2	418.8	394.9	382.1	343.7	332.5	332.5
80°	236.6	241.4	252.6	255.8	255.8	247.8	223.8	209.4	191.8	183.8	182.2
82.5°	143.9	150.3	156.7	159.9	161.5	151.9	131.1	119.9	110.3	102.3	102.3
85°	75.1	78.3	84.7	86.3	81.5	71.9	60.7	56.0	46.4	44.8	44.8
87.5°	20.8	22.4	25.6	20.8	19.2	14.4	8.0	6.4	3.2	1.6	1.6
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)