

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: P640037

Luminaire Tested: GWS-SA5D-722-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640037  
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-SA5D-722-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

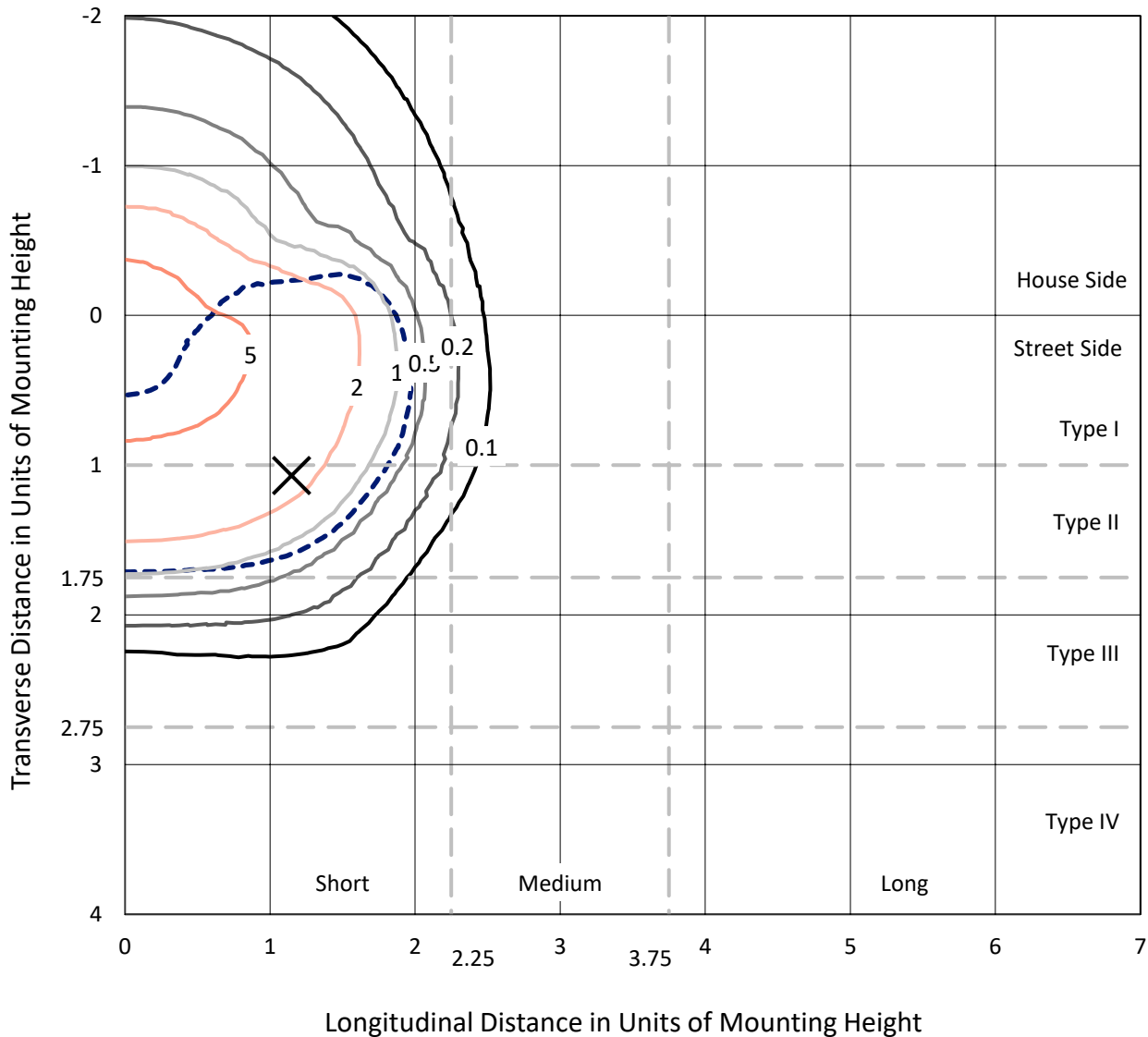
Lumens per Lamp: N/A  
Luminaire Lumens: 18886.4 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

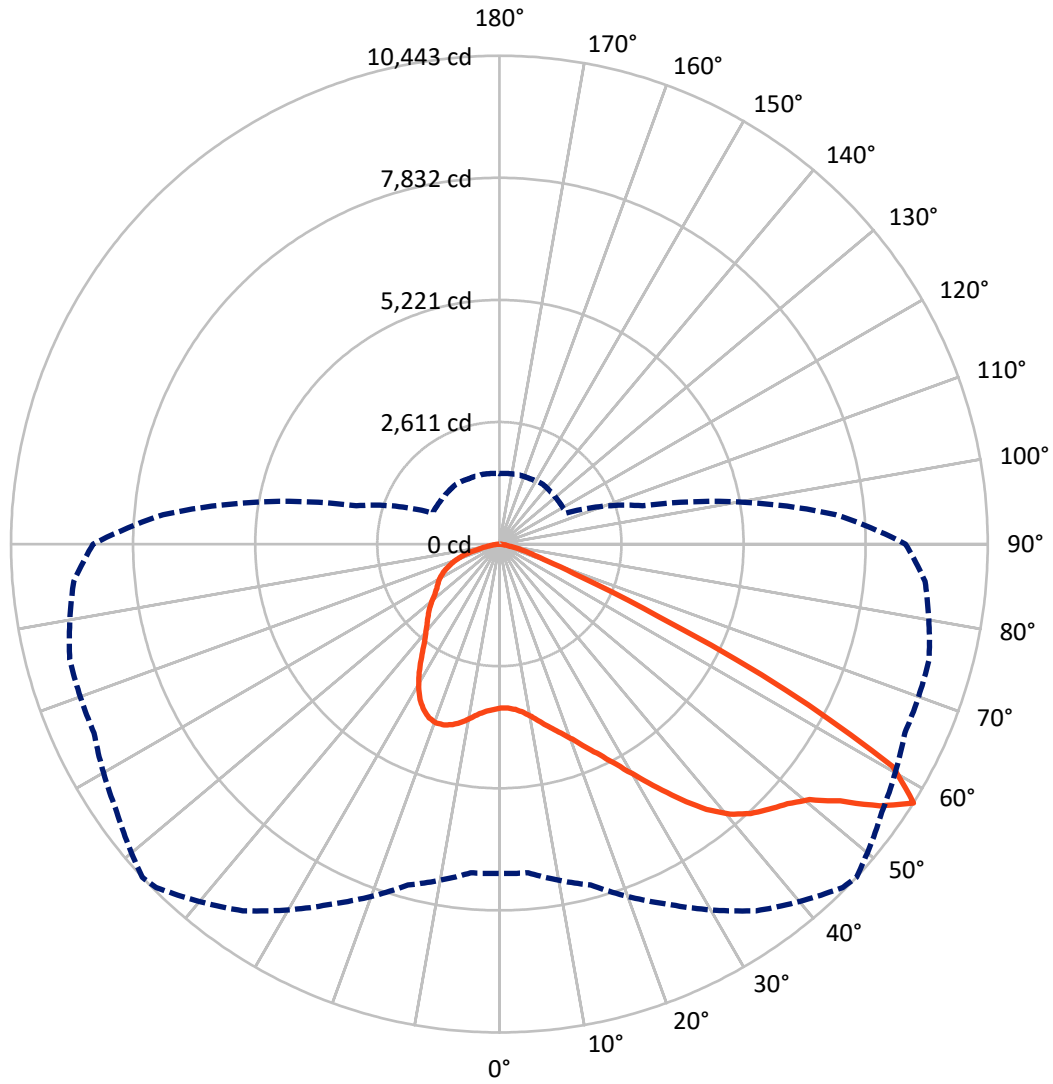
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	5977.5	0.0	5977.5
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	12908.9	0.0	12908.9
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	18886.4	0.0	18886.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.5	1.8
10°-20°	1136.2	6.0
20°-30°	2045.9	10.8
30°-40°	3090.1	16.4
40°-50°	4161.2	22.0
50°-60°	5000.3	26.5
60°-70°	2435.2	12.9
70°-80°	599.9	3.2
80°-90°	72.1	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°	18886.4	100.0
0°-180°	18886.4	100.0

**Coefficient of Utilization**



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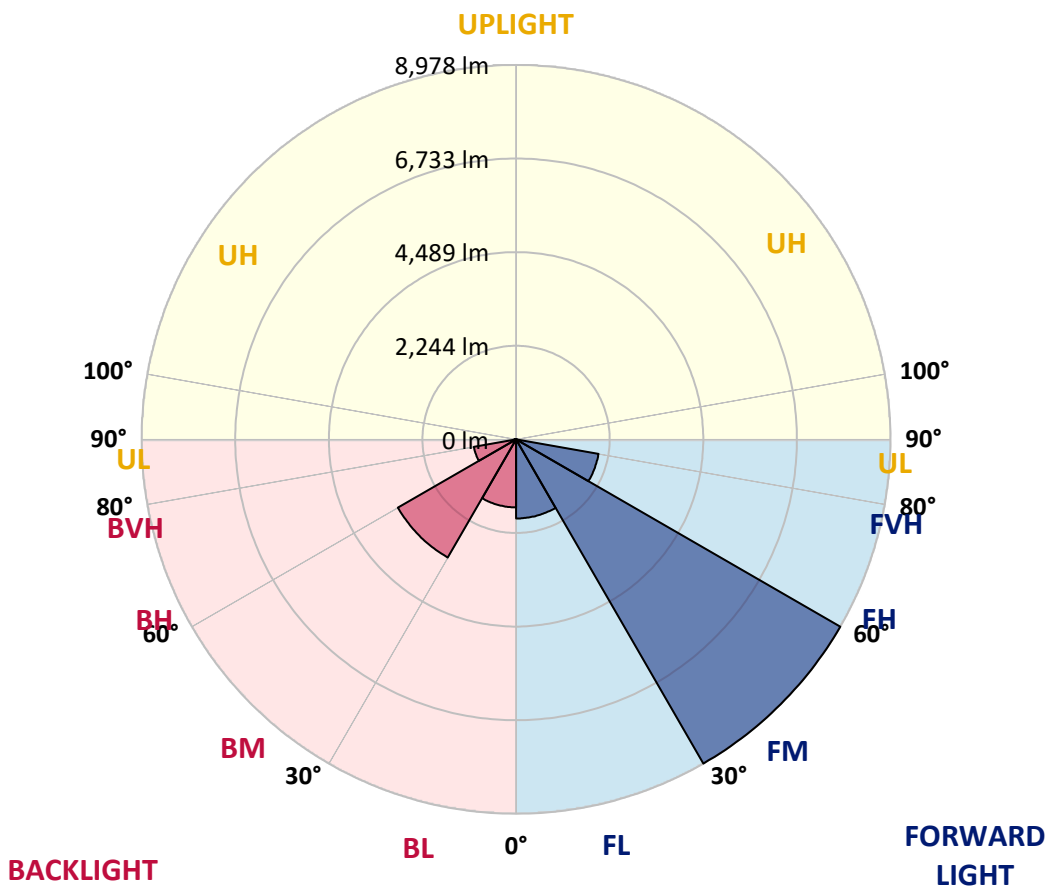
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1897.0	10.0			
FM (30°-60°)	8977.7	47.5			
FH (60°-80°)	2007.1	10.6			G2/5000
FVH (80°-90°)	27.1	0.1			G1/100
BL (0°-30°)	1630.6	8.6	B3/2500		
BM (30°-60°)	3273.9	17.3	B3/5000		
BH (60°-80°)	1028.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	45.0	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°	3502.5	3502.5	3502.5	3502.5	3502.5	3502.5	3502.5	3502.5	3502.5	3502.5	3502.5
2.5°	3496.2	3494.6	3494.6	3504.1	3504.1	3507.3	3512.0	3516.8	3518.4	3510.4	3493.0
5°	3534.2	3534.2	3534.2	3542.2	3542.2	3545.3	3551.7	3553.3	3551.7	3539.0	3521.5
7.5°	3594.5	3594.5	3596.1	3605.6	3613.5	3618.3	3629.4	3627.8	3623.1	3602.4	3580.2
10°	3692.9	3697.6	3702.4	3713.5	3729.3	3740.5	3748.4	3748.4	3742.0	3710.3	3681.8
12.5°	3832.5	3838.8	3843.6	3853.1	3865.8	3884.8	3902.3	3902.3	3894.3	3854.7	3811.8
15°	3995.8	4002.2	4000.6	4003.8	4027.6	4054.5	4068.8	4078.3	4081.5	4026.0	3959.4
17.5°	4183.0	4189.4	4183.0	4173.5	4176.7	4219.5	4244.9	4279.8	4300.4	4225.9	4119.6
20°	4352.8	4346.4	4346.4	4352.8	4362.3	4414.6	4452.7	4509.8	4535.2	4444.8	4279.8
22.5°	4532.0	4546.3	4539.9	4539.9	4578.0	4665.3	4711.3	4785.8	4812.8	4695.4	4473.3
25°	4763.6	4776.3	4773.1	4776.3	4820.7	4944.4	4990.4	5128.4	5155.4	4987.3	4687.5
27.5°	5017.4	5038.0	5047.5	5044.4	5115.8	5277.6	5334.7	5526.6	5575.8	5314.0	4915.9
30°	5347.4	5369.6	5377.5	5374.3	5458.4	5678.9	5743.9	5962.8	6032.6	5701.1	5206.2
32.5°	5729.6	5751.9	5775.7	5785.2	5893.0	6118.3	6211.9	6438.7	6538.7	6148.4	5556.7
35°	6108.8	6127.8	6173.8	6248.4	6395.9	6625.9	6708.4	6932.1	7028.8	6613.2	5980.3
37.5°	6527.5	6540.2	6579.9	6683.0	6895.6	7114.5	7197.0	7411.1	7422.2	7062.1	6459.3
40°	6986.0	6986.0	6978.1	7079.6	7301.7	7522.1	7593.5	7717.3	7652.2	7407.9	6925.7
42.5°	7374.6	7368.3	7374.6	7469.8	7634.8	7814.0	7875.9	7852.1	7769.6	7672.8	7347.7
45°	7725.2	7730.0	7787.1	7860.0	7945.7	8052.0	8088.5	7953.6	7879.1	7885.4	7685.5
47.5°	7963.1	7967.9	8101.1	8223.3	8275.6	8308.9	8293.1	8105.9	8067.8	8139.2	7945.7
50°	7994.9	8020.2	8250.3	8500.9	8631.0	8635.7	8591.3	8362.9	8351.8	8432.7	8085.3
52.5°	8001.2	8026.6	8313.7	8765.8	9103.7	9175.1	9124.3	8886.4	8770.6	8689.7	8256.6
55°	7977.4	8006.0	8323.2	8943.5	9590.7	9876.2	9880.9	9544.7	9175.1	9121.1	8745.2
57.5°	7043.1	7054.2	7545.9	8491.4	9571.6	10380.6	10442.5	9985.6	9563.7	9512.9	9137.0
60°	4906.4	4950.8	5485.4	6733.8	8040.9	9466.9	9666.8	9533.6	9251.2	8881.6	7839.4
62.5°	2457.2	2495.2	3031.4	4211.6	5545.6	6671.9	6886.0	7027.2	7093.9	6697.3	5337.8
65°	1058.0	1086.6	1419.7	2200.2	3139.3	3683.3	3757.9	3927.6	4343.2	3875.3	2875.9
67.5°	707.5	726.5	896.2	1342.0	1849.6	1884.5	1873.4	1909.9	2000.3	1651.3	1299.2
70°	542.5	558.4	672.6	983.5	1329.3	1137.4	1077.1	977.1	1061.2	1081.8	1053.3
72.5°	393.4	406.1	491.7	671.0	832.8	726.5	717.0	767.8	882.0	913.7	896.2
75°	253.8	260.2	312.5	368.0	429.9	466.4	485.4	577.4	693.2	717.0	696.4
77.5°	169.7	174.5	204.6	236.4	244.3	245.9	252.2	293.5	372.8	417.2	412.4
80°	88.8	88.8	99.9	99.9	114.2	136.4	142.8	169.7	206.2	228.4	230.0
82.5°	34.9	36.5	42.8	47.6	57.1	69.8	74.6	88.8	107.9	123.7	138.0
85°	14.3	15.9	17.4	20.6	25.4	31.7	33.3	38.1	50.8	63.5	71.4
87.5°	0.0	0.0	1.6	1.6	3.2	4.8	4.8	6.3	7.9	14.3	19.0
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°	3502.5	3502.5	3502.5	3502.5	3502.5	3502.5	3502.5	3502.5	3502.5	3502.5	3502.5
2.5°	3513.6	3493.0	3513.6	3520.0	3537.4	3543.8	3532.6	3531.1	3531.1	3515.2	3510.4
5°	3537.4	3518.4	3539.0	3548.5	3573.9	3589.8	3592.9	3605.6	3613.5	3607.2	3605.6
7.5°	3596.1	3572.3	3594.5	3608.8	3642.1	3667.5	3678.6	3707.1	3727.8	3724.6	3723.0
10°	3699.2	3667.5	3692.9	3716.7	3753.1	3783.3	3784.9	3800.7	3821.4	3815.0	3811.8
12.5°	3818.2	3788.0	3816.6	3840.4	3883.2	3895.9	3875.3	3868.9	3872.1	3864.2	3857.8
15°	3964.1	3921.3	3946.7	3973.6	3997.4	3983.2	3938.7	3921.3	3919.7	3908.6	3902.3
17.5°	4110.1	4056.1	4075.2	4089.4	4078.3	4033.9	3978.4	3948.3	3934.0	3911.8	3905.4
20°	4254.4	4186.2	4183.0	4171.9	4121.2	4040.3	3965.7	3905.4	3868.9	3838.8	3827.7
22.5°	4419.4	4324.2	4276.6	4225.9	4114.8	3983.2	3870.5	3784.9	3726.2	3688.1	3675.4
25°	4597.0	4462.2	4363.9	4262.3	4051.4	3861.0	3704.0	3586.6	3516.8	3475.5	3461.3
27.5°	4773.1	4587.5	4440.0	4267.1	3924.5	3684.9	3474.0	3315.3	3245.5	3212.2	3201.1
30°	5011.1	4754.1	4530.4	4205.2	3757.9	3440.6	3177.3	3017.1	2971.1	2947.3	2937.8
32.5°	5285.5	4965.1	4651.0	4075.2	3545.3	3155.1	2877.5	2766.5	2734.7	2688.7	2687.2
35°	5647.2	5266.5	4765.2	3883.2	3277.3	2849.0	2647.5	2568.2	2511.1	2438.1	2431.8
37.5°	6069.1	5642.4	4827.1	3638.9	2964.8	2596.7	2476.2	2387.4	2295.3	2198.6	2185.9
40°	6505.3	6081.8	4831.8	3350.2	2658.6	2430.2	2328.7	2212.9	2098.7	1990.8	1976.5
42.5°	6963.8	6491.1	4747.7	3017.1	2408.0	2285.8	2182.7	2036.8	1908.3	1835.3	1827.4
45°	7373.0	6821.0	4557.4	2666.5	2222.4	2165.3	2033.6	1876.6	1808.4	1756.0	1744.9
47.5°	7695.1	7039.9	4300.4	2352.5	2071.7	2041.5	1870.2	1789.3	1737.0	1689.4	1678.3
50°	7853.7	7089.1	3965.7	2097.1	1932.1	1895.6	1778.2	1716.4	1681.5	1643.4	1633.9
52.5°	8050.4	7144.6	3677.0	1882.9	1795.7	1746.5	1702.1	1652.9	1627.5	1603.7	1595.8
55°	8502.5	7354.0	3524.7	1711.6	1665.6	1643.4	1637.0	1595.8	1587.9	1572.0	1557.7
57.5°	8686.5	7219.2	3164.6	1572.0	1562.5	1565.7	1581.5	1543.5	1535.5	1516.5	1507.0
60°	6986.0	5456.8	2143.1	1451.4	1476.8	1497.4	1513.3	1475.2	1464.1	1461.0	1448.3
62.5°	4476.5	3356.6	1495.9	1338.8	1376.9	1402.3	1411.8	1375.3	1367.4	1392.8	1394.3
65°	2330.2	1829.0	1213.5	1218.3	1250.0	1288.1	1307.1	1294.4	1291.2	1318.2	1319.8
67.5°	1189.7	1118.3	1058.0	1075.5	1100.9	1150.1	1194.5	1250.0	1269.0	1272.2	1273.8
70°	1013.6	981.9	951.8	962.9	989.8	1016.8	1059.6	1086.6	1054.9	1046.9	1043.8
72.5°	862.9	839.1	824.9	837.6	851.8	847.1	834.4	847.1	851.8	853.4	855.0
75°	671.0	653.5	642.4	644.0	644.0	626.6	602.8	588.5	572.6	560.0	560.0
77.5°	410.8	414.0	425.1	423.5	422.0	415.6	391.8	379.1	341.1	329.9	329.9
80°	234.8	239.5	250.6	253.8	253.8	245.9	222.1	207.8	190.4	182.4	180.8
82.5°	142.8	149.1	155.5	158.6	160.2	150.7	130.1	119.0	109.5	101.5	101.5
85°	74.6	77.7	84.1	85.7	80.9	71.4	60.3	55.5	46.0	44.4	44.4
87.5°	20.6	22.2	25.4	20.6	19.0	14.3	7.9	6.3	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)