

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: P637480

Luminaire Tested: GWS-SA4C-830-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637480  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-830-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

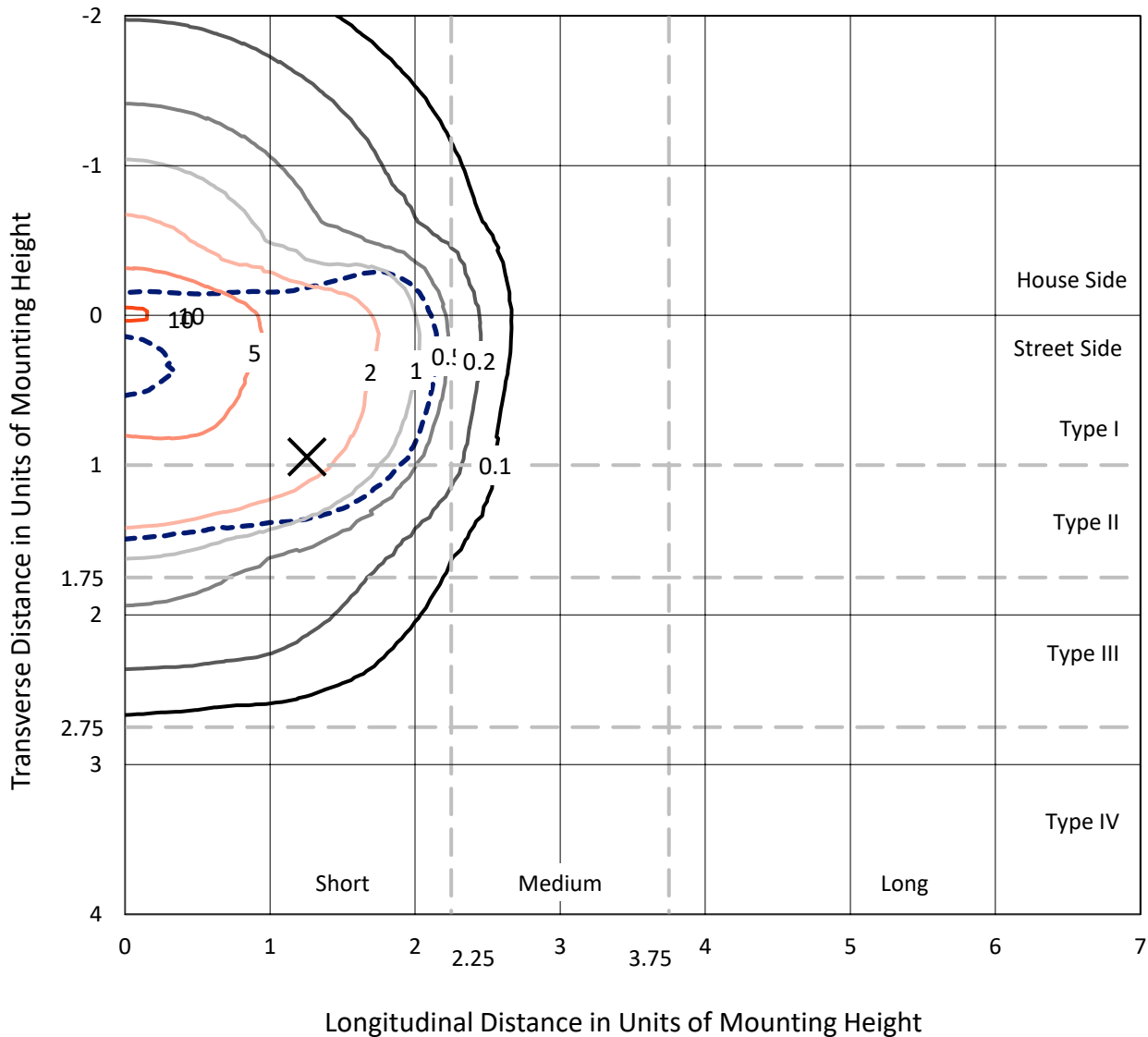
Lumens per Lamp: N/A  
Luminaire Lumens: 13133.8 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

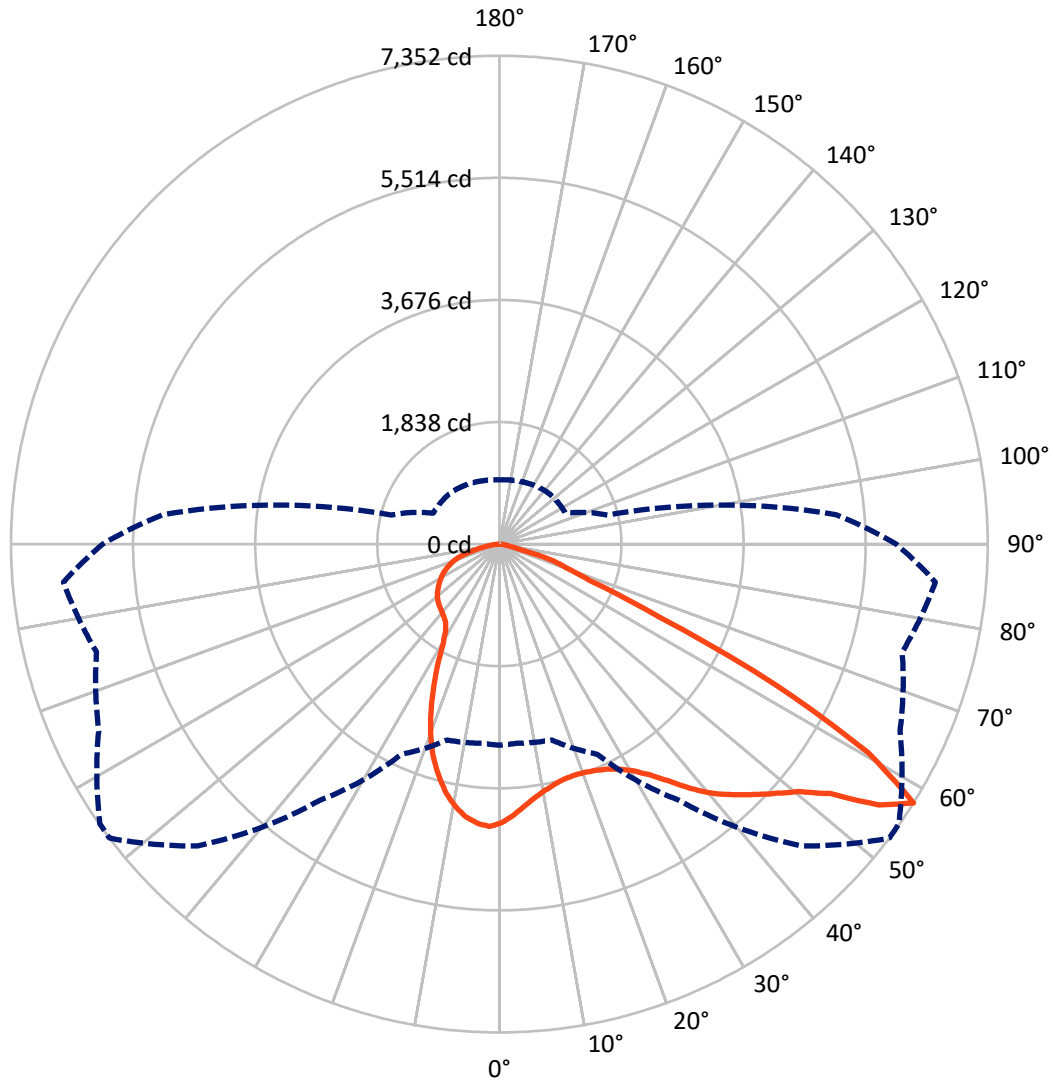
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4106.5	0.0	4106.5
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	9027.3	0.0	9027.3
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	13133.8	0.0	13133.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.3	2.9
10°-20°	995.0	7.6
20°-30°	1466.0	11.2
30°-40°	2052.0	15.6
40°-50°	2697.5	20.5
50°-60°	3162.8	24.1
60°-70°	1863.3	14.2
70°-80°	463.5	3.5
80°-90°	54.4	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°	13133.8	100.0
0°-180°	13133.8	100.0

**Coefficient of Utilization**



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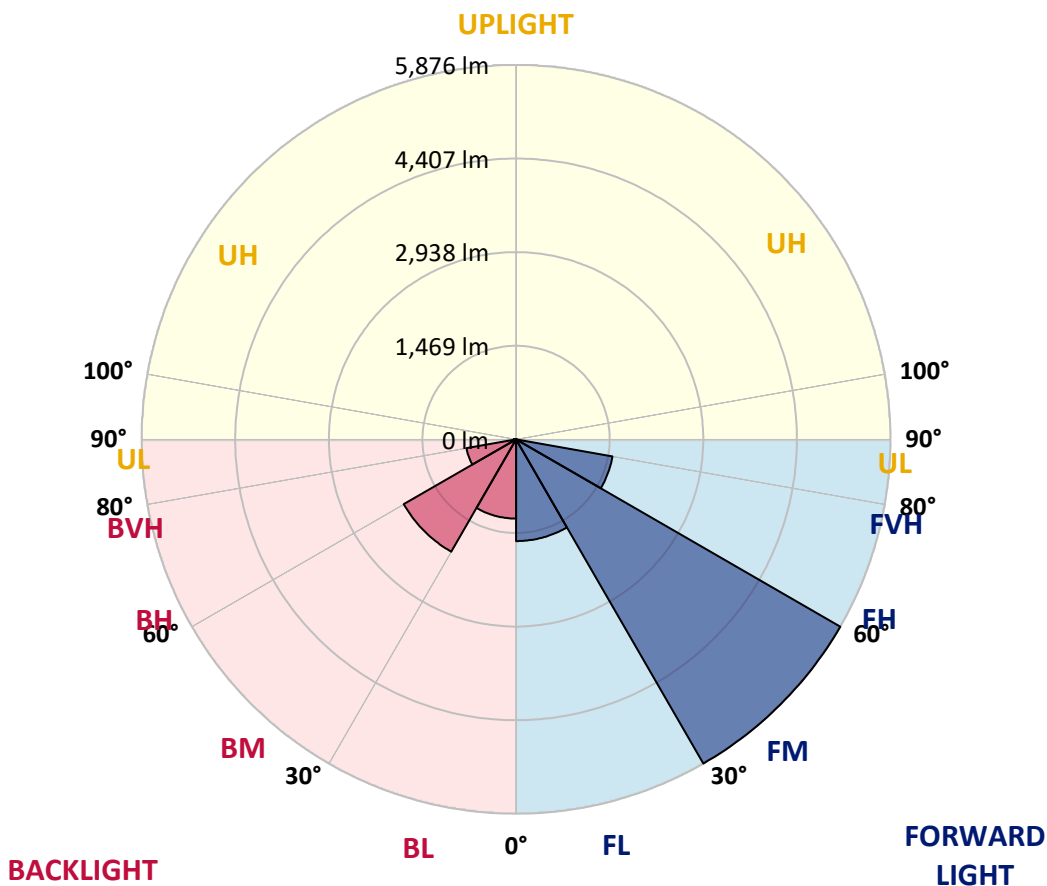
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1596.8	12.2			
FM (30°-60°)	5876.2	44.7			
FH (60°-80°)	1536.2	11.7			G1/1800
FVH (80°-90°)	18.2	0.1			G1/100
BL (0°-30°)	1243.5	9.5	B3/2500		
BM (30°-60°)	2036.2	15.5	B2/2500		
BH (60°-80°)	790.6	6.0	B2/1000		G2/1000
BVH (80°-90°)	36.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0
2.5°	3953.0	3964.0	3966.3	4000.5	4002.7	4052.5	4085.6	4079.0	4113.3	4155.3	4188.5
5°	3764.0	3765.1	3776.1	3817.0	3839.1	3904.4	3959.6	3959.6	4026.0	4112.2	4186.2
7.5°	3608.1	3607.0	3616.9	3662.3	3698.7	3777.2	3852.4	3861.2	3954.1	4080.1	4200.6
10°	3463.3	3471.0	3482.1	3537.4	3583.8	3681.1	3770.6	3785.0	3902.1	4058.0	4220.5
12.5°	3370.4	3371.5	3388.1	3450.0	3509.7	3613.6	3707.6	3725.3	3860.1	4037.0	4234.9
15°	3310.7	3311.8	3329.5	3398.1	3467.7	3572.7	3668.9	3688.8	3835.8	4033.7	4262.5
17.5°	3284.2	3283.1	3299.7	3368.2	3444.5	3553.9	3656.7	3681.1	3846.9	4059.1	4311.2
20°	3284.2	3285.3	3294.2	3356.1	3433.4	3549.5	3668.9	3698.7	3890.0	4116.6	4386.3
22.5°	3330.6	3335.1	3339.5	3381.5	3442.3	3556.1	3701.0	3740.8	3982.8	4212.8	4484.7
25°	3421.3	3422.4	3426.8	3461.1	3488.7	3574.9	3754.0	3813.7	4127.7	4353.2	4608.5
27.5°	3542.9	3558.4	3562.8	3584.9	3584.9	3621.4	3836.9	3923.1	4323.3	4555.5	4766.6
30°	3713.1	3718.6	3726.4	3750.7	3724.2	3708.7	3958.5	4069.1	4549.9	4799.7	4956.7
32.5°	3862.4	3874.5	3916.5	3956.3	3908.8	3860.1	4137.6	4268.0	4767.7	5054.0	5159.0
35°	3989.5	4019.3	4100.0	4188.5	4155.3	4106.6	4375.3	4511.2	4946.8	5236.4	5338.1
37.5°	4143.1	4166.3	4276.9	4420.6	4450.4	4427.2	4664.9	4762.2	5066.2	5282.8	5435.4
40°	4299.0	4334.4	4477.0	4675.9	4789.8	4806.4	4932.4	4997.6	5107.1	5192.2	5416.6
42.5°	4458.2	4519.0	4714.6	4946.8	5149.1	5186.6	5157.9	5185.5	5093.8	5067.3	5329.2
45°	4652.7	4724.6	4945.7	5241.9	5508.3	5566.9	5379.0	5353.6	5091.6	5019.7	5275.1
47.5°	4882.7	4954.5	5165.6	5510.5	5851.0	5894.1	5605.6	5559.2	5169.0	5092.7	5348.0
50°	5086.1	5135.8	5324.8	5710.6	6170.5	6195.9	5855.4	5799.1	5361.3	5295.0	5575.8
52.5°	4879.3	4873.8	5072.8	5548.1	6336.3	6642.5	6240.1	6186.0	5732.7	5631.0	5928.4
55°	4139.8	4076.8	4254.8	4722.4	5873.1	7039.3	6929.9	6821.6	6228.0	5969.3	6258.9
57.5°	3026.6	3009.0	3052.1	3490.9	4704.7	6424.7	7352.2	7342.2	6655.8	6278.8	6588.3
60°	2366.7	2340.2	2225.2	2237.4	3206.8	5018.6	6380.5	6673.4	6921.1	6464.5	6818.3
62.5°	2101.4	2081.5	2021.8	1857.1	1910.2	3364.9	4677.0	4945.7	6047.8	5709.5	5856.5
65°	1739.9	1734.4	1784.2	1777.5	1600.7	1858.2	2639.8	2910.6	3802.7	3850.2	3802.7
67.5°	1264.6	1254.7	1380.7	1629.4	1541.0	1402.8	1471.3	1565.3	1950.0	1751.0	1576.3
70°	822.4	808.1	881.0	1177.3	1379.6	1222.6	1060.1	1044.6	1072.3	666.6	720.7
72.5°	551.6	535.0	533.9	647.8	833.5	823.5	821.3	813.6	726.3	526.2	583.7
75°	307.3	294.0	290.7	279.7	298.5	304.0	323.9	334.9	362.6	399.1	442.2
77.5°	52.0	50.8	64.1	81.8	112.8	144.8	179.1	189.0	233.2	276.4	304.0
80°	28.7	29.8	38.7	47.5	63.0	86.2	110.5	117.2	143.7	166.9	189.0
82.5°	15.5	15.5	19.9	25.4	34.3	45.3	59.7	65.2	82.9	97.3	112.8
85°	5.5	5.5	7.7	9.9	14.4	18.8	23.2	26.5	36.5	49.7	56.4
87.5°	0.0	0.0	0.0	0.0	1.1	2.2	4.4	4.4	5.5	9.9	14.4
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°	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0	4194.0
2.5°	4216.1	4186.2	4227.1	4245.9	4252.6	4257.0	4228.2	4208.3	4201.7	4180.7	4168.6
5°	4231.6	4211.7	4250.4	4250.4	4222.7	4194.0	4135.4	4094.5	4065.7	4031.5	4026.0
7.5°	4258.1	4243.7	4264.7	4221.6	4152.0	4074.6	3972.9	3893.3	3829.2	3787.2	3788.3
10°	4293.5	4275.8	4259.2	4163.0	4035.9	3893.3	3737.4	3621.4	3515.2	3466.6	3440.1
12.5°	4316.7	4291.3	4221.6	4062.4	3875.6	3684.4	3464.4	3292.0	3138.3	3068.7	3063.1
15°	4345.4	4299.0	4159.7	3932.0	3672.2	3411.3	3128.3	2888.5	2680.7	2572.3	2566.8
17.5°	4383.0	4306.7	4085.6	3782.8	3457.8	3073.1	2717.1	2415.4	2194.3	2110.3	2124.6
20°	4436.1	4315.6	4001.6	3616.9	3191.4	2688.4	2245.1	1967.7	1882.5	1877.0	1866.0
22.5°	4495.8	4321.1	3908.8	3431.2	2868.6	2278.3	1854.9	1736.6	1735.5	1763.2	1769.8
25°	4563.2	4325.5	3803.8	3214.6	2519.3	1869.3	1640.4	1605.1	1632.7	1684.7	1691.3
27.5°	4649.4	4334.4	3676.6	2976.9	2147.8	1615.0	1522.2	1513.3	1546.5	1595.1	1592.9
30°	4776.5	4366.4	3541.8	2703.9	1766.5	1494.5	1450.3	1451.4	1464.7	1487.9	1491.2
32.5°	4905.9	4416.2	3410.2	2396.6	1547.6	1426.0	1406.1	1403.9	1403.9	1413.8	1416.0
35°	5028.6	4472.5	3267.6	2076.0	1441.5	1386.2	1372.9	1366.3	1363.0	1360.8	1357.5
37.5°	5097.1	4500.2	3128.3	1759.8	1385.1	1359.7	1346.4	1337.6	1325.4	1316.6	1314.3
40°	5067.3	4468.1	2967.0	1523.3	1350.8	1334.2	1318.8	1306.6	1290.0	1282.3	1277.9
42.5°	4967.8	4368.6	2791.2	1411.6	1323.2	1306.6	1287.8	1267.9	1256.9	1250.2	1249.1
45°	4862.8	4248.1	2579.0	1346.4	1296.7	1276.8	1254.7	1232.5	1220.4	1217.1	1216.0
47.5°	4859.4	4188.5	2353.4	1294.5	1264.6	1244.7	1217.1	1195.0	1181.7	1177.3	1172.9
50°	5005.4	4249.2	2099.2	1249.1	1231.4	1210.4	1179.5	1155.2	1138.6	1133.1	1132.0
52.5°	5308.2	4478.1	1871.5	1203.8	1187.2	1162.9	1137.5	1113.2	1093.3	1083.3	1082.2
55°	5635.4	4768.8	1730.0	1157.4	1135.3	1114.3	1091.1	1064.5	1042.4	1026.9	1024.7
57.5°	5973.7	5086.1	1686.9	1098.8	1082.2	1067.8	1040.2	1011.5	986.0	971.7	968.4
60°	6252.3	5359.1	1767.6	1036.9	1028.0	1009.3	983.8	956.2	938.5	927.5	925.2
62.5°	5234.2	4363.1	1427.1	969.5	969.5	949.6	920.8	900.9	888.8	881.0	878.8
65°	3321.8	2701.7	973.9	902.0	900.9	874.4	850.1	836.8	831.3	819.1	816.9
67.5°	1447.0	1234.8	832.4	833.5	829.1	800.3	776.0	766.1	755.0	741.7	740.6
70°	750.6	765.0	745.1	757.2	749.5	715.2	692.0	676.5	653.3	640.0	641.1
72.5°	605.8	621.2	643.4	662.1	645.6	617.9	581.5	562.7	532.8	518.4	519.5
75°	462.1	478.6	499.7	519.5	506.3	472.0	448.8	430.0	395.7	379.2	382.5
77.5°	318.4	327.2	352.6	351.5	347.1	337.2	302.9	280.8	245.4	225.5	227.7
80°	197.9	203.4	215.6	221.1	218.9	205.6	178.0	161.4	140.4	128.2	129.3
82.5°	119.4	122.7	133.8	134.9	133.8	123.8	102.8	90.6	77.4	70.7	70.7
85°	60.8	63.0	69.6	69.6	63.0	53.1	47.5	42.0	34.3	31.0	31.0
87.5°	16.6	16.6	21.0	17.7	14.4	13.3	6.6	5.5	2.2	1.1	1.1
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)