

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: P633304

Luminaire Tested: GWS-SA2E-740-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633304  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-740-U-SL3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

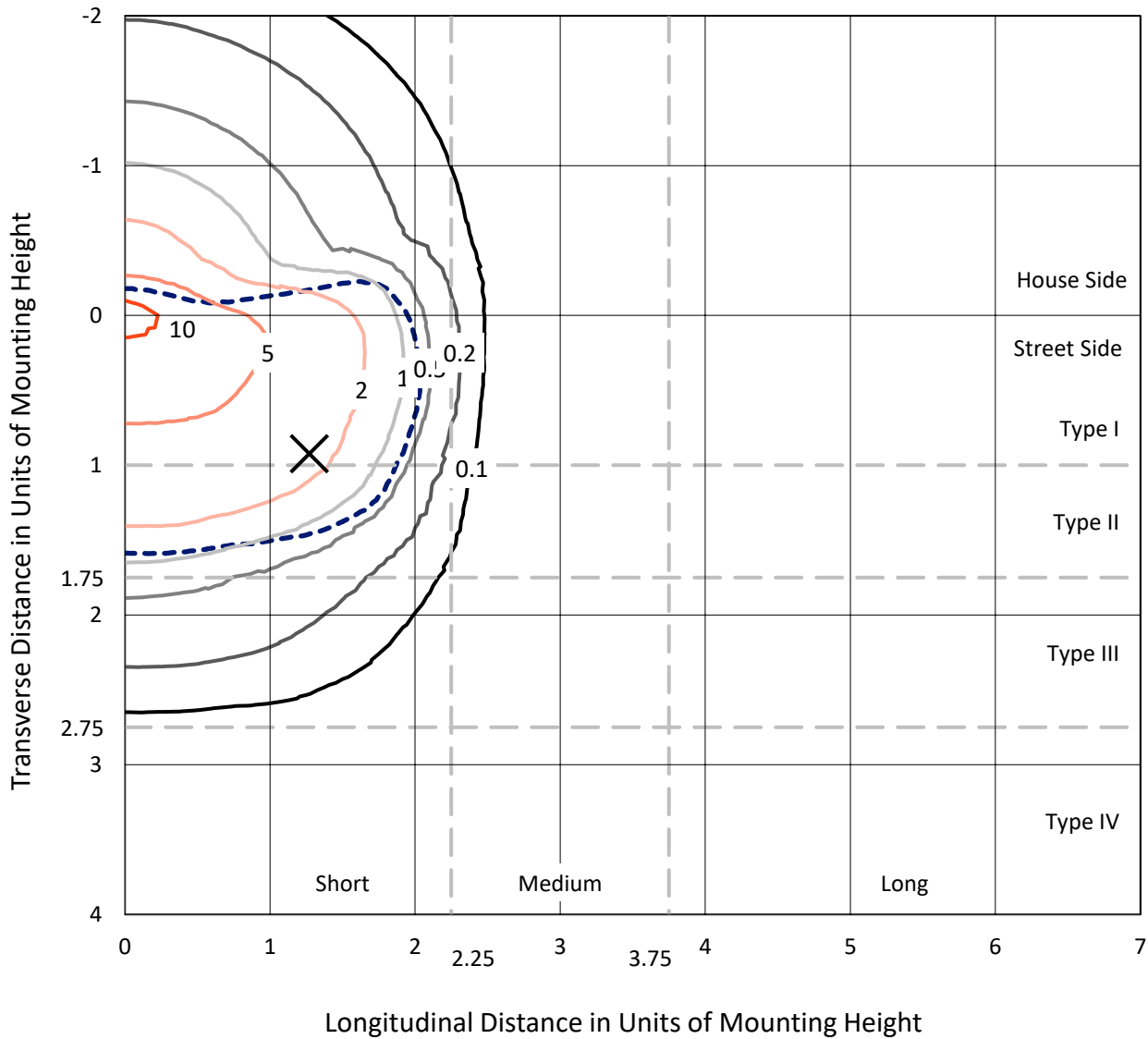
Lumens per Lamp: N/A  
Luminaire Lumens: 12219.3 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

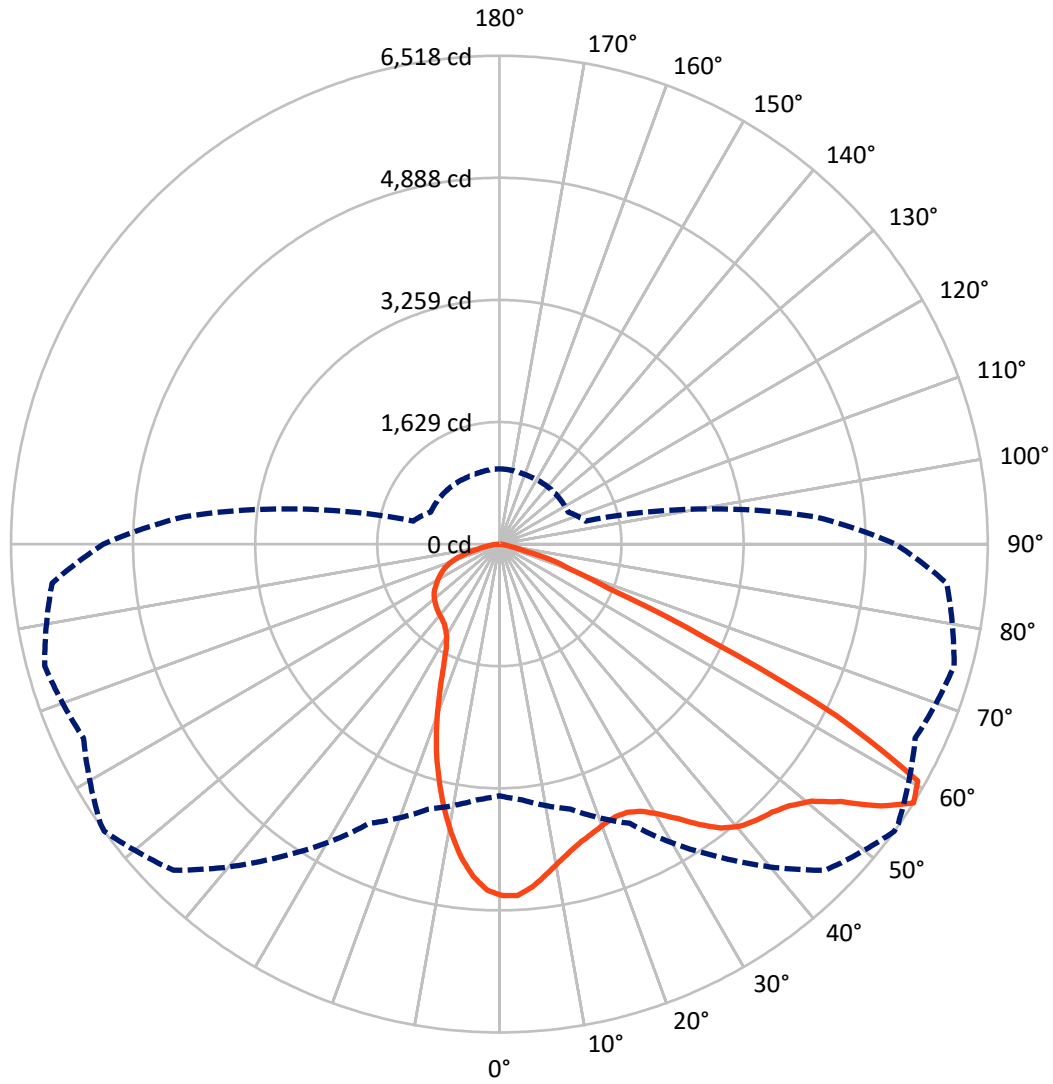
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3552.3	0.0	3552.3
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	8667.0	0.0	8667.0
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	12219.3	0.0	12219.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.4	3.4
10°-20°	983.9	8.1
20°-30°	1361.6	11.1
30°-40°	1892.0	15.5
40°-50°	2498.7	20.4
50°-60°	2969.4	24.3
60°-70°	1645.1	13.5
70°-80°	409.7	3.4
80°-90°	46.6	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°	12219.3	100.0
0°-180°	12219.3	100.0

**Coefficient of Utilization**



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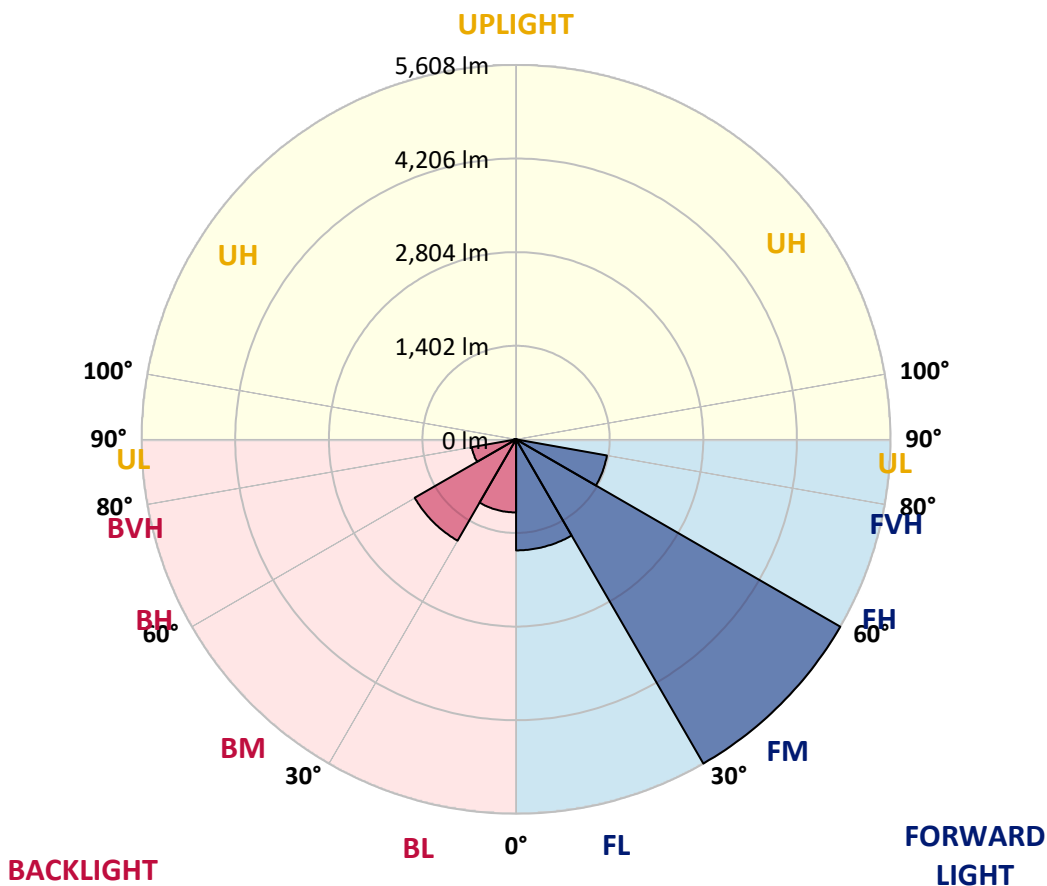
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1663.2	13.6			
FM (30°-60°)	5607.6	45.9			
FH (60°-80°)	1381.6	11.3			G1/1800
FVH (80°-90°)	14.6	0.1			G1/100
BL (0°-30°)	1094.7	9.0	B3/2500		
BM (30°-60°)	1752.4	14.3	B2/2500		
BH (60°-80°)	673.2	5.5	B2/1000		G2/1000
BVH (80°-90°)	32.0	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°	54°	55°	65°	75°	85°
0°	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3
2.5°	4603.4	4612.8	4619.1	4641.1	4659.9	4676.6	4694.4	4694.4	4693.4	4690.2	4683.9
5°	4421.4	4431.9	4446.5	4476.8	4517.6	4546.9	4595.0	4599.2	4620.1	4628.5	4624.3
7.5°	4210.1	4213.2	4232.1	4271.8	4336.7	4389.0	4458.0	4466.4	4516.6	4545.9	4540.6
10°	3978.9	3968.5	4002.0	4060.5	4145.3	4233.1	4322.0	4329.4	4409.9	4465.3	4461.1
12.5°	3767.7	3768.7	3802.2	3873.3	3978.9	4087.7	4207.0	4223.7	4323.1	4394.2	4386.9
15°	3590.9	3595.1	3635.9	3716.4	3836.7	3966.4	4114.9	4130.6	4256.1	4350.3	4329.4
17.5°	3449.7	3453.9	3489.4	3581.5	3710.1	3867.0	4048.0	4063.7	4219.5	4331.4	4288.6
20°	3352.4	3350.3	3384.8	3472.7	3605.5	3776.0	3989.4	4012.4	4208.0	4338.8	4261.4
22.5°	3312.7	3311.6	3336.7	3408.9	3533.4	3705.9	3953.8	3985.2	4220.6	4371.2	4244.6
25°	3332.5	3328.3	3350.3	3403.7	3503.0	3678.7	3964.3	3997.8	4273.9	4438.1	4247.8
27.5°	3394.2	3389.0	3407.8	3456.0	3531.3	3707.0	4037.5	4076.2	4386.9	4560.5	4289.6
30°	3488.4	3485.2	3504.1	3550.1	3616.0	3801.1	4177.7	4221.6	4561.6	4750.9	4380.6
32.5°	3598.2	3593.0	3626.4	3679.8	3756.2	3972.7	4366.0	4423.5	4768.7	4995.6	4533.3
35°	3721.6	3717.4	3763.5	3840.9	3950.7	4211.2	4594.0	4656.7	4980.0	5272.8	4736.2
37.5°	3841.9	3841.9	3930.8	4045.9	4184.0	4470.6	4808.4	4848.2	5126.4	5518.6	4953.8
40°	3948.6	3954.9	4088.8	4261.4	4437.1	4704.9	4949.6	4983.1	5191.3	5688.1	5143.1
42.5°	4066.8	4072.0	4227.9	4453.8	4663.0	4894.2	5035.4	5052.1	5203.8	5772.8	5277.0
45°	4160.9	4168.3	4361.8	4603.4	4859.7	5036.4	5103.4	5118.0	5221.6	5818.8	5374.3
47.5°	4210.1	4220.6	4442.3	4723.7	4992.5	5164.1	5215.3	5221.6	5294.8	5899.4	5491.4
50°	4201.7	4222.7	4472.7	4783.3	5090.8	5292.7	5395.2	5405.7	5444.4	6017.6	5628.5
52.5°	4276.0	4285.4	4537.5	4854.4	5231.0	5530.2	5708.0	5722.6	5704.8	6106.5	5710.1
55°	4152.6	4197.6	4457.0	4844.0	5444.4	5897.3	6171.3	6164.0	5941.2	6205.9	5846.0
57.5°	3358.7	3424.6	3662.0	4111.8	5092.9	6154.6	6517.6	6499.8	6124.3	6282.2	5993.5
60°	2325.2	2335.7	2550.1	2869.2	3930.8	5437.1	6416.1	6454.8	6157.7	6186.0	5720.5
62.5°	1859.8	1856.6	1876.5	1884.9	2499.9	3822.0	5064.7	5205.9	5115.9	4819.9	4054.3
65°	1587.8	1599.3	1657.9	1627.6	1631.7	2152.6	3026.1	3045.9	2983.2	2876.5	2144.3
67.5°	1242.6	1262.5	1366.1	1484.3	1446.6	1385.9	1570.0	1560.6	1230.1	951.9	786.6
70°	778.2	790.8	901.6	1165.2	1259.4	1138.0	1009.4	1005.2	659.0	541.8	594.1
72.5°	454.0	456.1	487.4	649.6	835.7	778.2	742.7	715.5	423.6	432.0	473.8
75°	250.0	250.0	248.9	280.3	329.5	291.8	282.4	275.1	283.5	321.1	352.5
77.5°	52.3	53.3	56.5	74.3	96.2	117.2	147.5	148.5	185.1	214.4	239.5
80°	24.1	25.1	31.4	39.7	51.3	68.0	90.0	91.0	111.9	134.9	151.7
82.5°	12.6	13.6	16.7	20.9	27.2	35.6	50.2	50.2	66.9	79.5	90.0
85°	4.2	4.2	6.3	8.4	11.5	14.6	19.9	19.9	29.3	38.7	45.0
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	4.2	4.2	5.2	6.3	10.5
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°	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3	4691.3
2.5°	4670.3	4637.9	4639.0	4645.2	4625.4	4595.0	4575.2	4550.1	4534.4	4531.2	4542.7
5°	4603.4	4565.7	4539.6	4512.4	4455.9	4389.0	4336.7	4293.8	4265.5	4255.1	4242.5
7.5°	4511.4	4462.2	4396.3	4319.9	4217.4	4098.2	4014.5	3936.1	3881.7	3866.0	3858.7
10°	4419.3	4348.2	4231.0	4088.8	3918.3	3757.2	3605.5	3489.4	3397.4	3345.1	3361.8
12.5°	4324.1	4236.3	4053.2	3834.6	3597.2	3354.5	3155.8	2963.3	2814.8	2740.5	2718.5
15°	4240.4	4121.2	3866.0	3570.0	3254.1	2948.6	2661.0	2372.3	2184.0	2081.5	2053.3
17.5°	4169.3	4014.5	3668.3	3300.1	2922.5	2487.4	2133.8	1866.0	1737.4	1680.9	1676.7
20°	4099.2	3909.9	3472.7	3009.3	2539.7	2052.2	1736.3	1610.8	1564.8	1544.9	1543.9
22.5°	4036.5	3800.1	3266.6	2718.5	2158.9	1724.8	1551.2	1496.8	1484.3	1484.3	1482.2
25°	3983.1	3690.3	3055.3	2410.0	1814.8	1535.5	1455.0	1432.0	1437.2	1446.6	1447.7
27.5°	3961.2	3604.5	2851.4	2093.0	1577.4	1425.7	1389.1	1385.9	1400.6	1415.2	1417.3
30°	3984.2	3545.9	2642.2	1789.7	1435.1	1358.7	1342.0	1348.3	1366.1	1380.7	1380.7
32.5°	4055.3	3516.6	2428.8	1567.9	1352.5	1311.7	1306.4	1312.7	1326.3	1334.7	1335.7
35°	4175.6	3528.1	2208.1	1418.4	1299.1	1277.2	1276.1	1280.3	1285.5	1290.8	1291.8
37.5°	4327.3	3579.4	1971.7	1331.5	1264.6	1252.1	1250.0	1248.9	1250.0	1250.0	1251.0
40°	4475.8	3656.8	1760.4	1280.3	1240.5	1230.1	1224.9	1217.5	1216.5	1214.4	1213.3
42.5°	4585.6	3716.4	1592.0	1243.7	1218.6	1206.0	1199.8	1188.2	1187.2	1186.2	1185.1
45°	4668.3	3766.6	1451.8	1208.1	1195.6	1184.1	1170.5	1160.0	1162.1	1164.2	1164.2
47.5°	4761.3	3810.5	1349.3	1174.6	1167.3	1155.8	1139.1	1131.8	1139.1	1146.4	1146.4
50°	4874.3	3872.3	1265.6	1141.2	1138.0	1124.4	1109.8	1106.7	1115.0	1125.5	1125.5
52.5°	4956.9	3925.6	1206.0	1107.7	1107.7	1089.9	1077.4	1076.3	1085.7	1096.2	1097.2
55°	5111.8	4050.1	1185.1	1069.0	1064.8	1051.2	1041.8	1034.5	1046.0	1055.4	1055.4
57.5°	5286.4	4215.3	1190.3	1013.6	1008.3	1004.2	996.8	988.5	991.6	1002.1	1003.1
60°	4916.2	3895.3	1132.8	958.1	955.0	952.9	943.5	928.8	933.0	941.4	942.4
62.5°	3434.0	2588.8	916.3	889.1	899.6	898.5	886.0	869.2	870.3	881.8	881.8
65°	1782.4	1400.6	804.4	826.3	842.0	835.7	814.8	800.2	798.1	812.7	809.6
67.5°	768.8	764.6	732.2	760.4	777.2	763.6	741.6	717.5	719.6	724.9	720.7
70°	619.2	638.1	651.7	682.0	695.6	670.5	646.4	632.8	621.3	620.3	613.0
72.5°	494.8	520.9	551.2	582.6	586.8	561.7	531.4	518.8	501.0	500.0	492.7
75°	372.4	394.3	418.4	443.5	443.5	419.4	399.6	393.3	372.4	366.1	359.8
77.5°	254.2	267.8	286.6	292.9	299.2	289.7	269.9	259.4	235.3	229.1	220.7
80°	160.0	169.5	181.0	185.1	191.4	179.9	164.2	152.7	136.0	130.7	126.6
82.5°	96.2	102.5	109.8	111.9	117.2	108.8	94.1	85.8	76.4	72.2	69.0
85°	49.2	52.3	56.5	57.5	56.5	48.1	42.9	38.7	32.4	31.4	29.3
87.5°	12.6	14.6	15.7	14.6	13.6	10.5	7.3	5.2	2.1	2.1	1.0
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)