

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: P633744

Luminaire Tested: GWS-SA2F-735-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633744  
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-SA2F-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

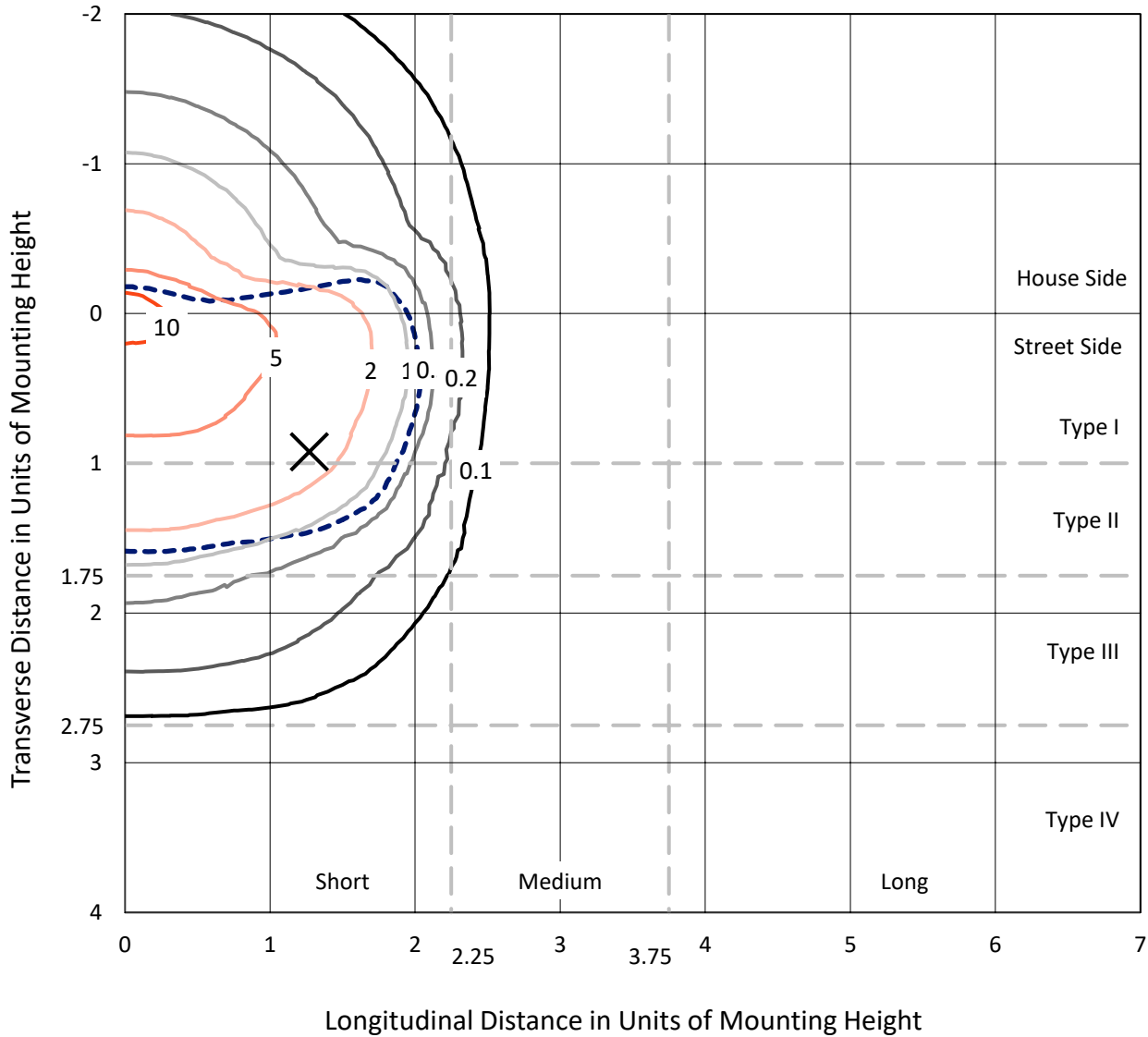
Lumens per Lamp: N/A  
Luminaire Lumens: 13399.4 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

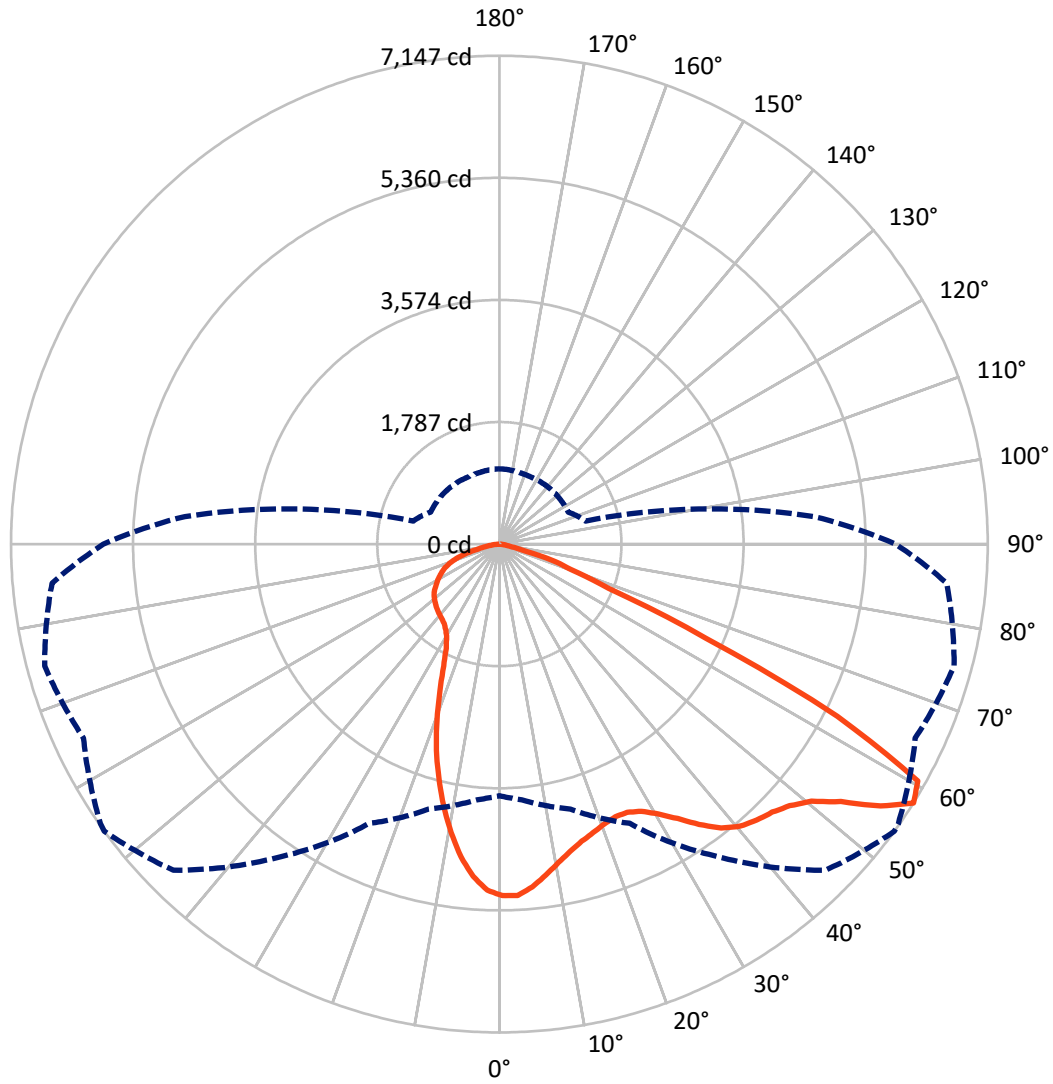
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.9 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	3895.4	0.0	3895.4
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	9504.0	0.0	9504.0
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	13399.4	0.0	13399.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	452.2	3.4
10°-20°	1079.0	8.1
20°-30°	1493.1	11.1
30°-40°	2074.7	15.5
40°-50°	2740.0	20.4
50°-60°	3256.1	24.3
60°-70°	1804.0	13.5
70°-80°	449.2	3.4
80°-90°	51.1	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°	13399.4	100.0
0°-180°	13399.4	100.0

**Coefficient of Utilization**



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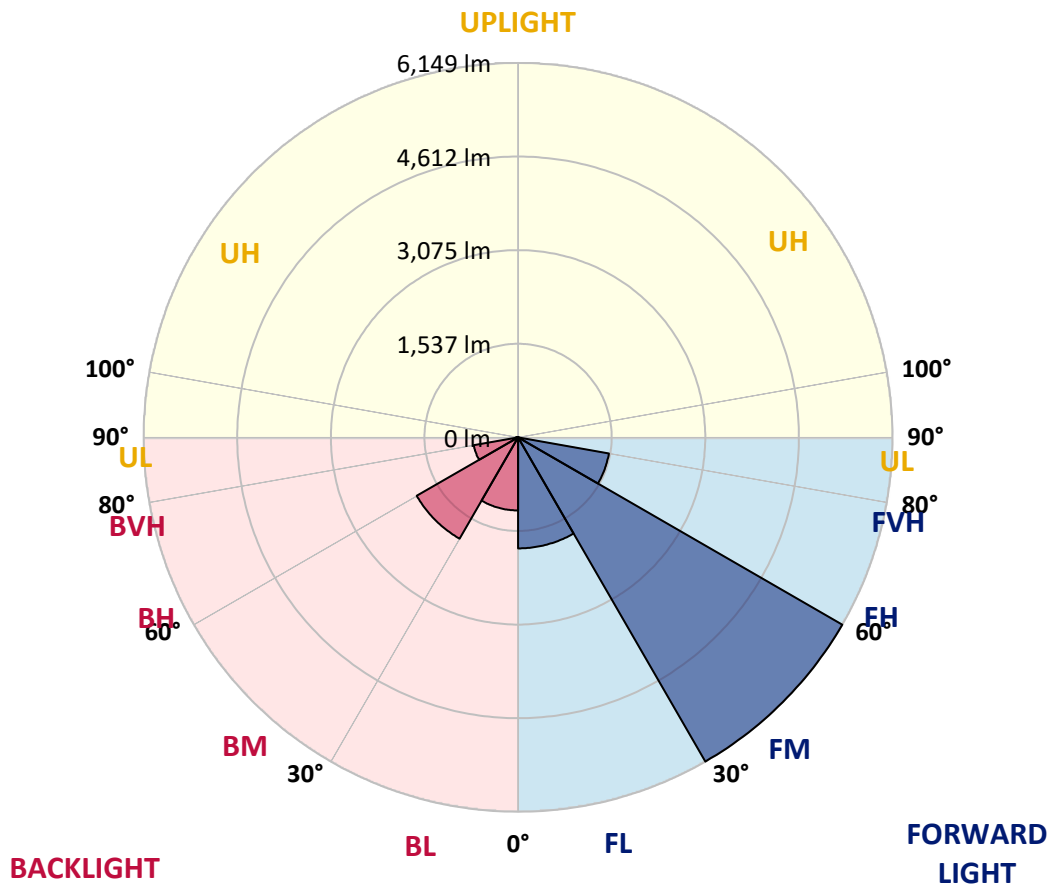
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1823.9	13.6			
FM (30°-60°)	6149.2	45.9			
FH (60°-80°)	1515.0	11.3			G1/1800
FVH (80°-90°)	16.0	0.1			G1/100
BL (0°-30°)	1200.4	9.0	B3/2500		
BM (30°-60°)	1921.7	14.3	B2/2500		
BH (60°-80°)	738.2	5.5	B2/1000		G2/1000
BVH (80°-90°)	35.1	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°	5144.3	5144.3	5144.3	5144.3	5144.3	5144.3	5144.3	5144.3	5144.3	5144.3	5144.3
2.5°	5048.0	5058.3	5065.2	5089.3	5109.9	5128.3	5147.8	5147.8	5146.6	5143.2	5136.3
5°	4848.4	4859.9	4875.9	4909.2	4953.9	4986.0	5038.8	5043.4	5066.3	5075.5	5070.9
7.5°	4616.7	4620.2	4640.8	4684.4	4755.5	4812.8	4888.6	4897.7	4952.8	4984.9	4979.2
10°	4363.2	4351.8	4388.5	4452.7	4545.6	4641.9	4739.4	4747.5	4835.8	4896.6	4892.0
12.5°	4131.5	4132.7	4169.4	4247.4	4363.2	4482.5	4613.3	4631.6	4740.6	4818.6	4810.6
15°	3937.7	3942.3	3987.0	4075.3	4207.2	4349.5	4512.3	4529.5	4667.2	4770.4	4747.5
17.5°	3782.8	3787.4	3826.4	3927.4	4068.4	4240.5	4438.9	4456.1	4627.0	4749.8	4702.7
20°	3676.2	3673.9	3711.7	3808.1	3953.7	4140.7	4374.7	4399.9	4614.4	4757.8	4672.9
22.5°	3632.6	3631.4	3659.0	3738.1	3874.6	4063.9	4335.7	4370.1	4628.2	4793.3	4654.6
25°	3654.4	3649.8	3673.9	3732.4	3841.3	4034.0	4347.2	4383.9	4686.7	4866.8	4658.0
27.5°	3722.0	3716.3	3737.0	3789.7	3872.3	4065.0	4427.5	4469.9	4810.6	5001.0	4703.9
30°	3825.3	3821.8	3842.5	3892.9	3965.2	4168.2	4581.2	4629.3	5002.1	5209.7	4803.7
32.5°	3945.7	3940.0	3976.7	4035.2	4118.9	4356.3	4787.6	4850.7	5229.2	5478.1	4971.1
35°	4081.1	4076.5	4126.9	4211.8	4332.3	4617.9	5037.7	5106.5	5460.9	5782.1	5193.7
37.5°	4213.0	4213.0	4310.5	4436.6	4588.0	4902.3	5272.8	5316.4	5621.5	6051.6	5432.2
40°	4330.0	4336.8	4483.7	4672.9	4865.6	5159.2	5427.6	5464.3	5692.6	6237.4	5639.8
42.5°	4459.6	4465.3	4636.2	4884.0	5113.4	5366.9	5521.7	5540.1	5706.4	6330.3	5786.7
45°	4562.8	4570.8	4783.0	5048.0	5329.0	5522.8	5596.3	5612.3	5725.9	6380.8	5893.3
47.5°	4616.7	4628.2	4871.3	5179.9	5474.7	5662.8	5719.0	5725.9	5806.2	6469.1	6021.8
50°	4607.5	4630.5	4904.6	5245.3	5582.5	5803.9	5916.3	5927.7	5970.2	6598.7	6172.1
52.5°	4689.0	4699.3	4975.7	5323.3	5736.2	6064.2	6259.2	6275.3	6255.8	6696.2	6261.5
55°	4553.6	4602.9	4887.4	5311.8	5970.2	6466.8	6767.4	6759.3	6515.0	6805.2	6410.6
57.5°	3683.0	3755.3	4015.7	4508.9	5584.8	6749.0	7147.0	7127.5	6715.7	6888.9	6572.4
60°	2549.8	2561.3	2796.4	3146.2	4310.5	5962.2	7035.8	7078.2	6752.4	6783.4	6273.0
62.5°	2039.4	2035.9	2057.7	2066.9	2741.4	4191.2	5553.8	5708.7	5610.0	5285.4	4445.8
65°	1741.2	1753.8	1818.0	1784.7	1789.3	2360.5	3318.3	3340.1	3271.3	3154.3	2351.4
67.5°	1362.6	1384.4	1498.0	1627.6	1586.3	1519.8	1721.7	1711.3	1348.9	1043.8	862.6
70°	853.4	867.1	988.7	1277.8	1381.0	1247.9	1106.9	1102.3	722.6	594.2	651.5
72.5°	497.8	500.1	534.5	712.3	916.5	853.4	814.4	784.6	464.5	473.7	519.6
75°	274.1	274.1	273.0	307.4	361.3	320.0	309.7	301.7	310.8	352.1	386.5
77.5°	57.4	58.5	61.9	81.4	105.5	128.5	161.7	162.9	203.0	235.1	262.7
80°	26.4	27.5	34.4	43.6	56.2	74.6	98.6	99.8	122.7	148.0	166.3
82.5°	13.8	14.9	18.4	22.9	29.8	39.0	55.1	55.1	73.4	87.2	98.6
85°	4.6	4.6	6.9	9.2	12.6	16.1	21.8	21.8	32.1	42.4	49.3
87.5°	0.0	0.0	0.0	0.0	1.1	2.3	4.6	4.6	5.7	6.9	11.5
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°	5144.3	5144.3	5144.3	5144.3	5144.3	5144.3	5144.3	5144.3	5144.3	5144.3	5144.3
2.5°	5121.4	5085.8	5087.0	5093.9	5072.1	5038.8	5017.0	4989.5	4972.3	4968.8	4981.5
5°	5048.0	5006.7	4978.0	4948.2	4886.3	4812.8	4755.5	4708.5	4677.5	4666.0	4652.3
7.5°	4947.0	4893.1	4820.9	4737.1	4624.7	4494.0	4402.2	4316.2	4256.5	4239.3	4231.3
10°	4846.1	4768.1	4639.7	4483.7	4296.7	4120.1	3953.7	3826.4	3725.5	3668.1	3686.5
12.5°	4741.7	4645.4	4444.7	4204.9	3944.6	3678.5	3460.5	3249.5	3086.6	3005.2	2981.1
15°	4650.0	4519.2	4239.3	3914.7	3568.3	3233.4	2918.0	2601.4	2395.0	2282.5	2251.6
17.5°	4572.0	4402.2	4022.6	3618.8	3204.7	2727.6	2339.9	2046.3	1905.2	1843.2	1838.7
20°	4495.1	4287.5	3808.1	3299.9	2784.9	2250.4	1904.0	1766.4	1715.9	1694.1	1693.0
22.5°	4426.3	4167.1	3582.1	2981.1	2367.4	1891.4	1701.0	1641.4	1627.6	1627.6	1625.3
25°	4367.8	4046.6	3350.4	2642.7	1990.1	1683.8	1595.5	1570.3	1576.0	1586.3	1587.5
27.5°	4343.7	3952.6	3126.7	2295.2	1729.7	1563.4	1523.2	1519.8	1535.8	1551.9	1554.2
30°	4369.0	3888.4	2897.3	1962.5	1573.7	1490.0	1471.6	1478.5	1498.0	1514.1	1514.1
32.5°	4447.0	3856.2	2663.4	1719.4	1483.1	1438.3	1432.6	1439.5	1454.4	1463.6	1464.7
35°	4578.9	3868.9	2421.3	1555.3	1424.6	1400.5	1399.4	1403.9	1409.7	1415.4	1416.6
37.5°	4745.2	3925.1	2162.1	1460.1	1386.7	1373.0	1370.7	1369.5	1370.7	1370.7	1371.8
40°	4908.1	4009.9	1930.4	1403.9	1360.4	1348.9	1343.1	1335.1	1334.0	1331.7	1330.5
42.5°	5028.5	4075.3	1745.7	1363.8	1336.3	1322.5	1315.6	1303.0	1301.9	1300.7	1299.6
45°	5119.1	4130.4	1592.0	1324.8	1311.0	1298.4	1283.5	1272.0	1274.3	1276.6	1276.6
47.5°	5221.2	4178.6	1479.6	1288.1	1280.1	1267.4	1249.1	1241.1	1249.1	1257.1	1257.1
50°	5345.1	4246.2	1387.9	1251.4	1247.9	1233.0	1217.0	1213.5	1222.7	1234.2	1234.2
52.5°	5435.7	4304.7	1322.5	1214.7	1214.7	1195.2	1181.4	1180.3	1190.6	1202.1	1203.2
55°	5605.4	4441.2	1299.6	1172.2	1167.7	1152.7	1142.4	1134.4	1147.0	1157.3	1157.3
57.5°	5797.0	4622.4	1305.3	1111.5	1105.7	1101.1	1093.1	1083.9	1087.4	1098.8	1100.0
60°	5390.9	4271.5	1242.2	1050.7	1047.2	1044.9	1034.6	1018.5	1023.1	1032.3	1033.5
62.5°	3765.6	2838.8	1004.8	975.0	986.4	985.3	971.5	953.2	954.3	966.9	966.9
65°	1954.5	1535.8	882.0	906.1	923.3	916.5	893.5	877.5	875.2	891.2	887.8
67.5°	843.1	838.5	802.9	833.9	852.2	837.3	813.2	786.8	789.1	794.9	790.3
70°	679.0	699.7	714.6	747.8	762.8	735.2	708.9	693.9	681.3	680.2	672.1
72.5°	542.5	571.2	604.5	638.9	643.5	615.9	582.7	568.9	549.4	548.3	540.2
75°	408.3	432.4	458.8	486.3	486.3	460.0	438.2	431.3	408.3	401.5	394.6
77.5°	278.7	293.6	314.3	321.2	328.0	317.7	295.9	284.5	258.1	251.2	242.0
80°	175.5	185.8	198.4	203.0	209.9	197.3	180.1	167.5	149.1	143.4	138.8
82.5°	105.5	112.4	120.4	122.7	128.5	119.3	103.2	94.1	83.7	79.1	75.7
85°	53.9	57.4	61.9	63.1	61.9	52.8	47.0	42.4	35.6	34.4	32.1
87.5°	13.8	16.1	17.2	16.1	14.9	11.5	8.0	5.7	2.3	2.3	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)