

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: P633854

Luminaire Tested: GWS-SA2F-750-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633854  
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-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

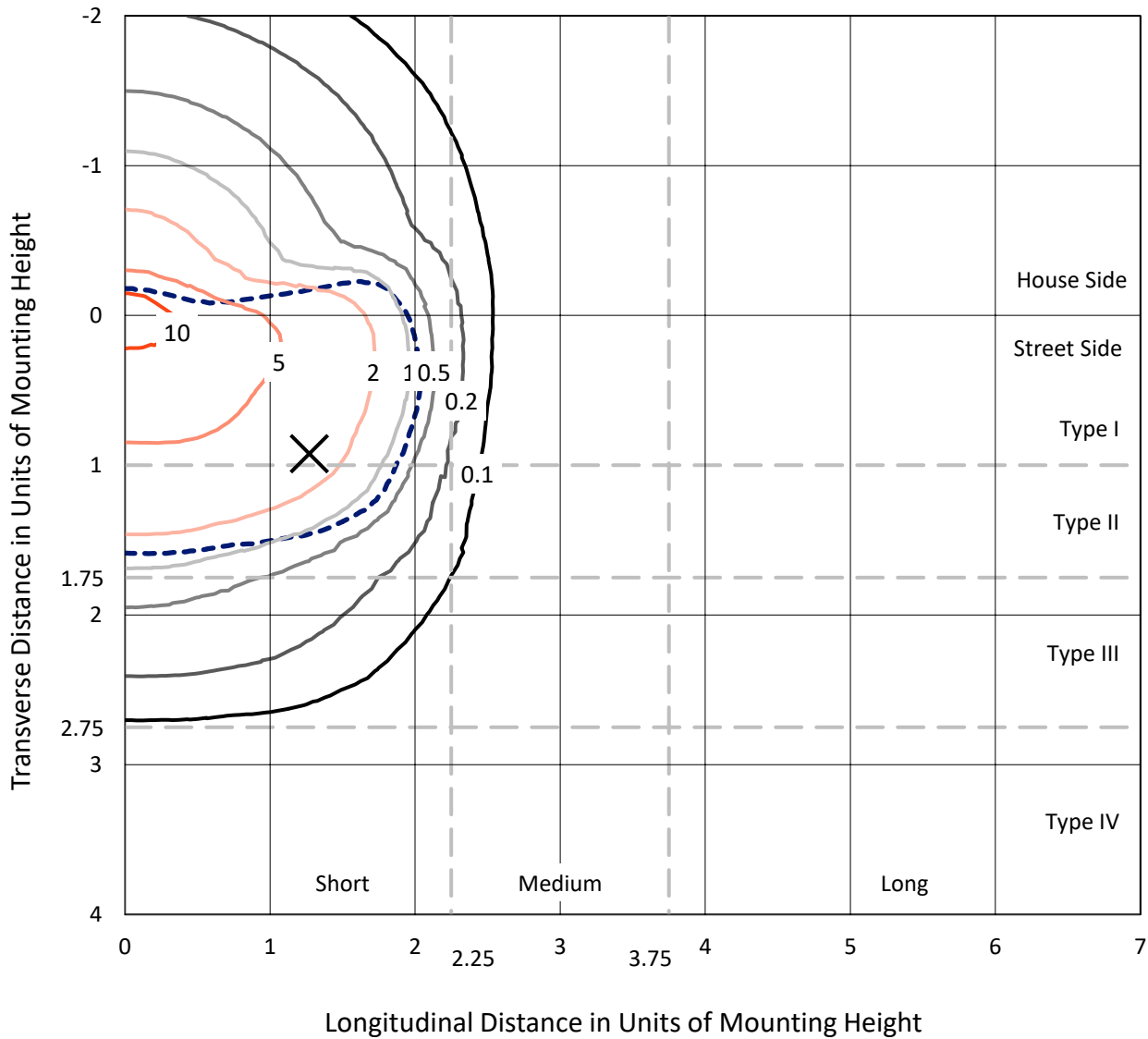
Lumens per Lamp: N/A  
Luminaire Lumens: 13896.9 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

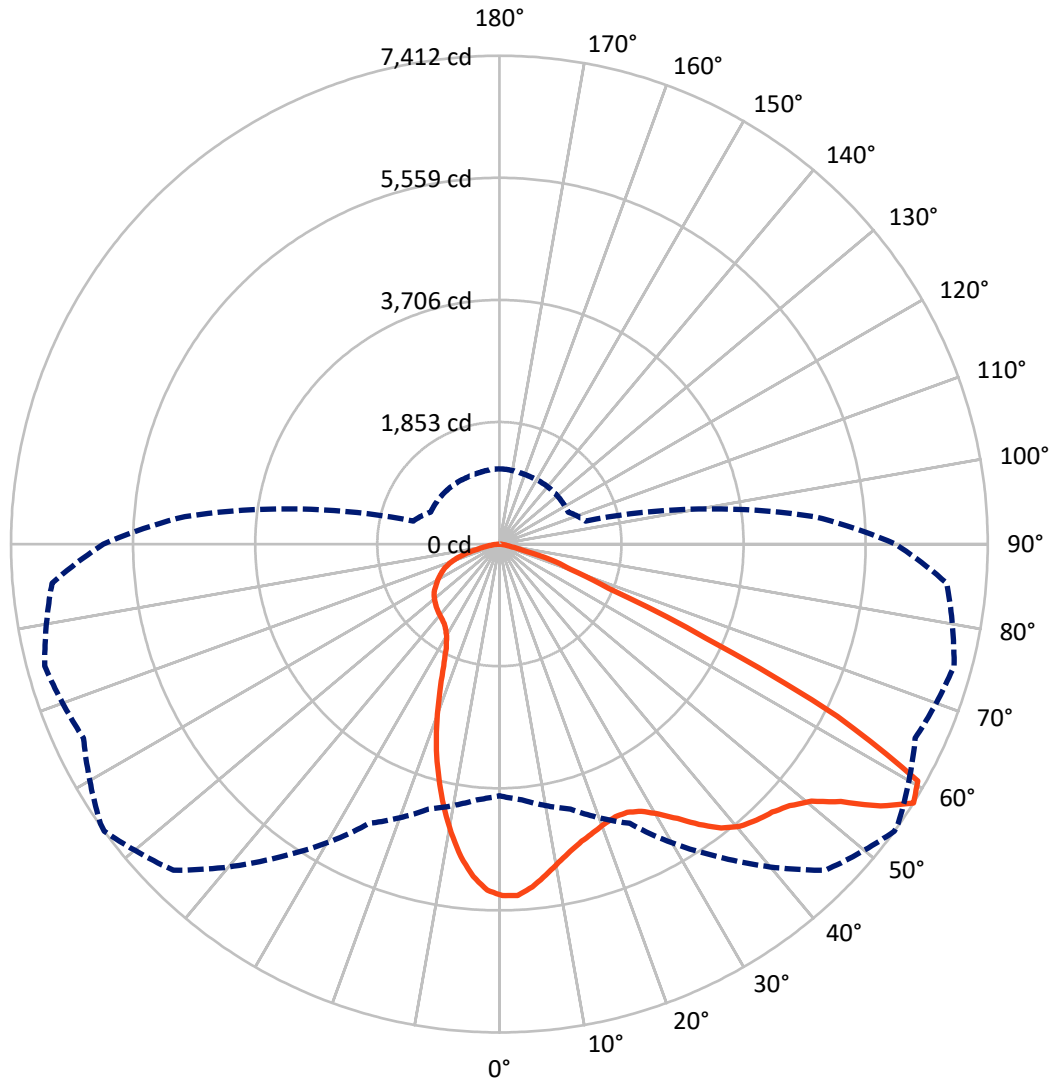
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.3 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	4040.0	0.0	4040.0
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	9856.9	0.0	9856.9
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	13896.9	0.0	13896.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	469.0	3.4
10°-20°	1119.0	8.1
20°-30°	1548.6	11.1
30°-40°	2151.7	15.5
40°-50°	2841.8	20.4
50°-60°	3377.0	24.3
60°-70°	1870.9	13.5
70°-80°	465.9	3.4
80°-90°	53.0	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°	13896.9	100.0
0°-180°	13896.9	100.0

**Coefficient of Utilization**



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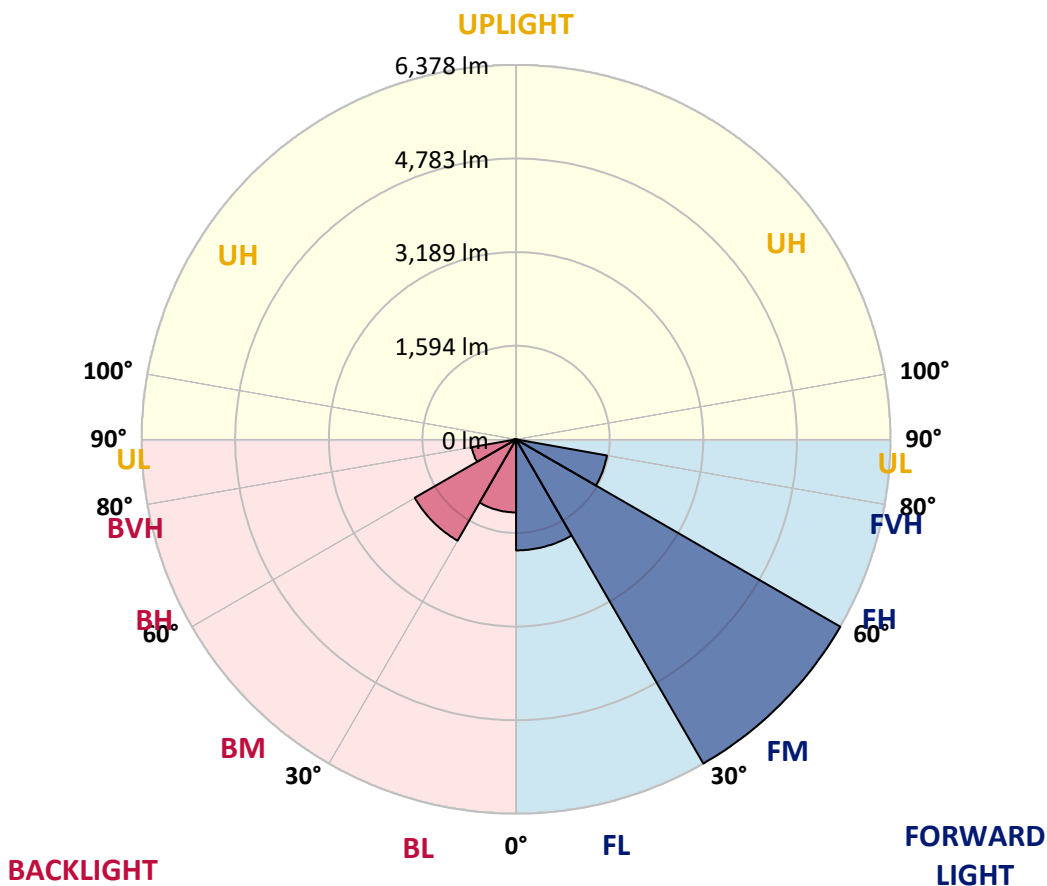
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1891.6	13.6			
FM (30°-60°)	6377.5	45.9			
FH (60°-80°)	1571.2	11.3			G1/1800
FVH (80°-90°)	16.6	0.1			G1/100
BL (0°-30°)	1245.0	9.0	B3/2500		
BM (30°-60°)	1993.0	14.3	B2/2500		
BH (60°-80°)	765.6	5.5	B2/1000		G2/1000
BVH (80°-90°)	36.4	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°	5335.3	5335.3	5335.3	5335.3	5335.3	5335.3	5335.3	5335.3	5335.3	5335.3	5335.3
2.5°	5235.4	5246.1	5253.3	5278.2	5299.6	5318.7	5338.9	5338.9	5337.7	5334.1	5327.0
5°	5028.4	5040.3	5057.0	5091.5	5137.9	5171.2	5225.9	5230.7	5254.4	5264.0	5259.2
7.5°	4788.1	4791.7	4813.1	4858.3	4932.1	4991.5	5070.1	5079.6	5136.7	5170.0	5164.0
10°	4525.2	4513.3	4551.4	4618.0	4714.4	4814.3	4915.4	4923.7	5015.3	5078.4	5073.6
12.5°	4284.9	4286.1	4324.2	4405.1	4525.2	4648.9	4784.6	4803.6	4916.6	4997.5	4989.2
15°	4083.9	4088.6	4135.0	4226.6	4363.4	4510.9	4679.9	4697.7	4840.5	4947.5	4923.7
17.5°	3923.3	3928.0	3968.5	4073.2	4219.5	4397.9	4603.7	4621.6	4798.8	4926.1	4877.3
20°	3812.7	3810.3	3849.5	3949.5	4100.5	4294.4	4537.1	4563.3	4785.7	4934.4	4846.4
22.5°	3767.4	3766.3	3794.8	3876.9	4018.5	4214.7	4496.7	4532.4	4800.0	4971.3	4827.4
25°	3790.1	3785.3	3810.3	3870.9	3984.0	4183.8	4508.6	4546.6	4860.7	5047.5	4830.9
27.5°	3860.2	3854.3	3875.7	3930.4	4016.1	4215.9	4591.8	4635.9	4989.2	5186.6	4878.5
30°	3967.3	3963.7	3985.1	4037.5	4112.4	4323.0	4751.2	4801.2	5187.8	5403.1	4982.0
32.5°	4092.2	4086.3	4124.3	4185.0	4271.8	4518.1	4965.4	5030.8	5423.4	5681.5	5155.7
35°	4232.6	4227.8	4280.2	4368.2	4493.1	4789.3	5224.7	5296.1	5663.7	5996.8	5386.5
37.5°	4369.4	4369.4	4470.5	4601.4	4758.4	5084.3	5468.6	5513.8	5830.2	6276.3	5633.9
40°	4490.7	4497.9	4650.1	4846.4	5046.3	5350.8	5629.2	5667.2	5904.0	6469.0	5849.2
42.5°	4625.1	4631.1	4808.3	5065.3	5303.2	5566.1	5726.7	5745.7	5918.2	6565.4	6001.5
45°	4732.2	4740.5	4960.6	5235.4	5526.9	5727.9	5804.0	5820.7	5938.5	6617.7	6112.1
47.5°	4788.1	4800.0	5052.2	5372.2	5677.9	5873.0	5931.3	5938.5	6021.7	6709.3	6245.4
50°	4778.6	4802.4	5086.7	5440.0	5789.8	6019.4	6135.9	6147.8	6191.8	6843.7	6401.2
52.5°	4863.1	4873.8	5160.5	5520.9	5949.2	6289.4	6491.6	6508.3	6488.1	6944.9	6494.0
55°	4722.7	4773.8	5068.9	5509.0	6191.8	6706.9	7018.6	7010.3	6756.9	7057.9	6648.6
57.5°	3819.8	3894.7	4164.8	4676.3	5792.1	6999.6	7412.4	7392.1	6965.1	7144.7	6816.4
60°	2644.5	2656.4	2900.2	3263.1	4470.5	6183.5	7297.0	7341.0	7003.1	7035.3	6505.9
62.5°	2115.1	2111.5	2134.1	2143.7	2843.1	4346.8	5760.0	5920.6	5818.3	5481.7	4610.9
65°	1805.8	1818.9	1885.5	1851.0	1855.8	2448.2	3441.5	3464.1	3392.7	3271.4	2438.7
67.5°	1413.2	1435.8	1553.6	1688.0	1645.2	1576.2	1785.6	1774.9	1399.0	1082.5	894.6
70°	885.1	899.3	1025.4	1325.2	1432.3	1294.3	1148.0	1143.2	749.4	616.2	675.7
72.5°	516.3	518.7	554.4	738.7	950.5	885.1	844.6	813.7	481.8	491.3	538.9
75°	284.3	284.3	283.1	318.8	374.7	331.9	321.2	312.9	322.4	365.2	400.9
77.5°	59.5	60.7	64.2	84.5	109.4	133.2	167.7	168.9	210.6	243.9	272.4
80°	27.4	28.6	35.7	45.2	58.3	77.3	102.3	103.5	127.3	153.5	172.5
82.5°	14.3	15.5	19.0	23.8	30.9	40.4	57.1	57.1	76.1	90.4	102.3
85°	4.8	4.8	7.1	9.5	13.1	16.7	22.6	22.6	33.3	44.0	51.2
87.5°	0.0	0.0	0.0	0.0	1.2	2.4	4.8	4.8	5.9	7.1	11.9
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°	5335.3	5335.3	5335.3	5335.3	5335.3	5335.3	5335.3	5335.3	5335.3	5335.3	5335.3
2.5°	5311.5	5274.7	5275.9	5283.0	5260.4	5225.9	5203.3	5174.7	5156.9	5153.3	5166.4
5°	5235.4	5192.6	5162.8	5131.9	5067.7	4991.5	4932.1	4883.3	4851.2	4839.3	4825.0
7.5°	5130.7	5074.8	4999.9	4913.0	4796.4	4660.8	4565.7	4476.4	4414.6	4396.7	4388.4
10°	5026.0	4945.1	4811.9	4650.1	4456.2	4273.0	4100.5	3968.5	3863.8	3804.3	3823.4
12.5°	4917.8	4817.9	4609.7	4361.1	4091.0	3815.0	3589.0	3370.1	3201.2	3116.7	3091.8
15°	4822.6	4687.0	4396.7	4060.1	3700.8	3353.5	3026.3	2698.0	2483.9	2367.3	2335.2
17.5°	4741.7	4565.7	4171.9	3753.2	3323.7	2828.9	2426.8	2122.2	1975.9	1911.7	1906.9
20°	4662.0	4446.7	3949.5	3422.5	2888.3	2334.0	1974.7	1832.0	1779.6	1757.0	1755.8
22.5°	4590.6	4321.8	3715.1	3091.8	2455.3	1961.6	1764.2	1702.3	1688.0	1688.0	1685.7
25°	4530.0	4196.9	3474.8	2740.8	2063.9	1746.3	1654.7	1628.6	1634.5	1645.2	1646.4
27.5°	4505.0	4099.3	3242.8	2380.4	1793.9	1621.4	1579.8	1576.2	1592.9	1609.5	1611.9
30°	4531.2	4032.7	3004.9	2035.4	1632.1	1545.3	1526.3	1533.4	1553.6	1570.3	1570.3
32.5°	4612.1	3999.4	2762.2	1783.2	1538.1	1491.8	1485.8	1492.9	1508.4	1517.9	1519.1
35°	4748.9	4012.5	2511.2	1613.1	1477.5	1452.5	1451.3	1456.1	1462.0	1468.0	1469.2
37.5°	4921.4	4070.8	2242.4	1514.4	1438.2	1423.9	1421.6	1420.4	1421.6	1421.6	1422.8
40°	5090.3	4158.8	2002.1	1456.1	1410.9	1399.0	1393.0	1384.7	1383.5	1381.1	1379.9
42.5°	5215.2	4226.6	1810.6	1414.4	1385.9	1371.6	1364.5	1351.4	1350.2	1349.0	1347.8
45°	5309.2	4283.7	1651.2	1374.0	1359.7	1346.6	1331.2	1319.3	1321.6	1324.0	1324.0
47.5°	5415.0	4333.7	1534.6	1335.9	1327.6	1314.5	1295.5	1287.1	1295.5	1303.8	1303.8
50°	5543.5	4403.9	1439.4	1297.8	1294.3	1278.8	1262.2	1258.6	1268.1	1280.0	1280.0
52.5°	5637.5	4464.6	1371.6	1259.8	1259.8	1239.6	1225.3	1224.1	1234.8	1246.7	1247.9
55°	5813.6	4606.1	1347.8	1215.8	1211.0	1195.5	1184.8	1176.5	1189.6	1200.3	1200.3
57.5°	6012.2	4794.1	1353.8	1152.7	1146.8	1142.0	1133.7	1124.2	1127.7	1139.6	1140.8
60°	5591.1	4430.1	1288.3	1089.7	1086.1	1083.7	1073.0	1056.4	1061.1	1070.6	1071.8
62.5°	3905.4	2944.2	1042.1	1011.2	1023.1	1021.9	1007.6	988.6	989.7	1002.8	1002.8
65°	2027.1	1592.9	914.8	939.8	957.6	950.5	926.7	910.0	907.7	924.3	920.7
67.5°	874.4	869.6	832.7	864.8	883.9	868.4	843.4	816.1	818.4	824.4	819.6
70°	704.2	725.7	741.1	775.6	791.1	762.5	735.2	719.7	706.6	705.4	697.1
72.5°	562.7	592.4	626.9	662.6	667.4	638.8	604.3	590.0	569.8	568.6	560.3
75°	423.5	448.5	475.8	504.4	504.4	477.0	454.4	447.3	423.5	416.4	409.2
77.5°	289.1	304.5	325.9	333.1	340.2	329.5	306.9	295.0	267.7	260.5	251.0
80°	182.0	192.7	205.8	210.6	217.7	204.6	186.8	173.7	154.6	148.7	143.9
82.5°	109.4	116.6	124.9	127.3	133.2	123.7	107.1	97.5	86.8	82.1	78.5
85°	55.9	59.5	64.2	65.4	64.2	54.7	48.8	44.0	36.9	35.7	33.3
87.5°	14.3	16.7	17.8	16.7	15.5	11.9	8.3	5.9	2.4	2.4	1.2
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)