

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: P638863

Luminaire Tested: GWS-SA4F-760-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638863  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-760-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

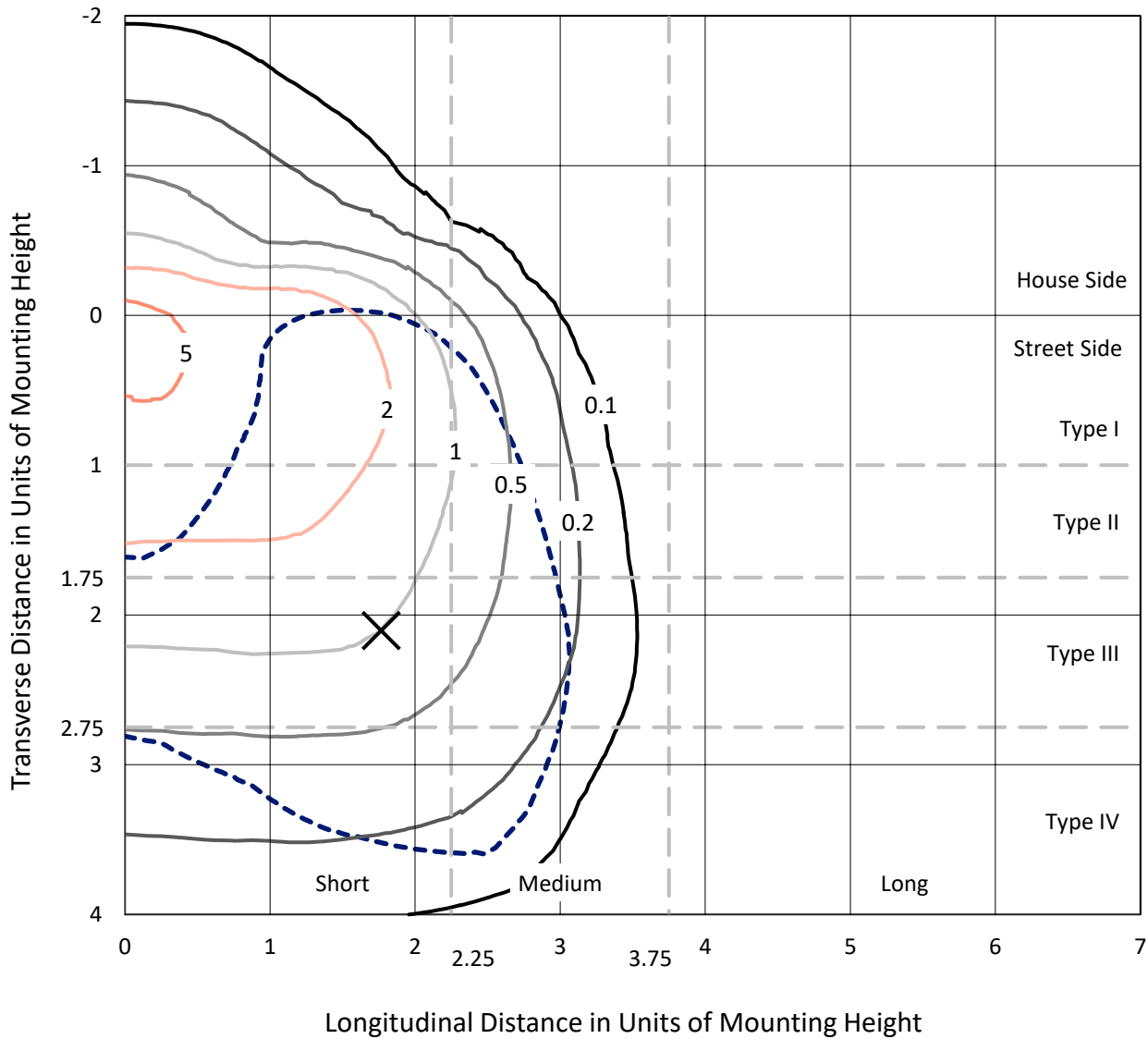
Lumens per Lamp: N/A  
Luminaire Lumens: 32967.7 lumens  
Efficiency: N/A  
Efficacy: 146.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

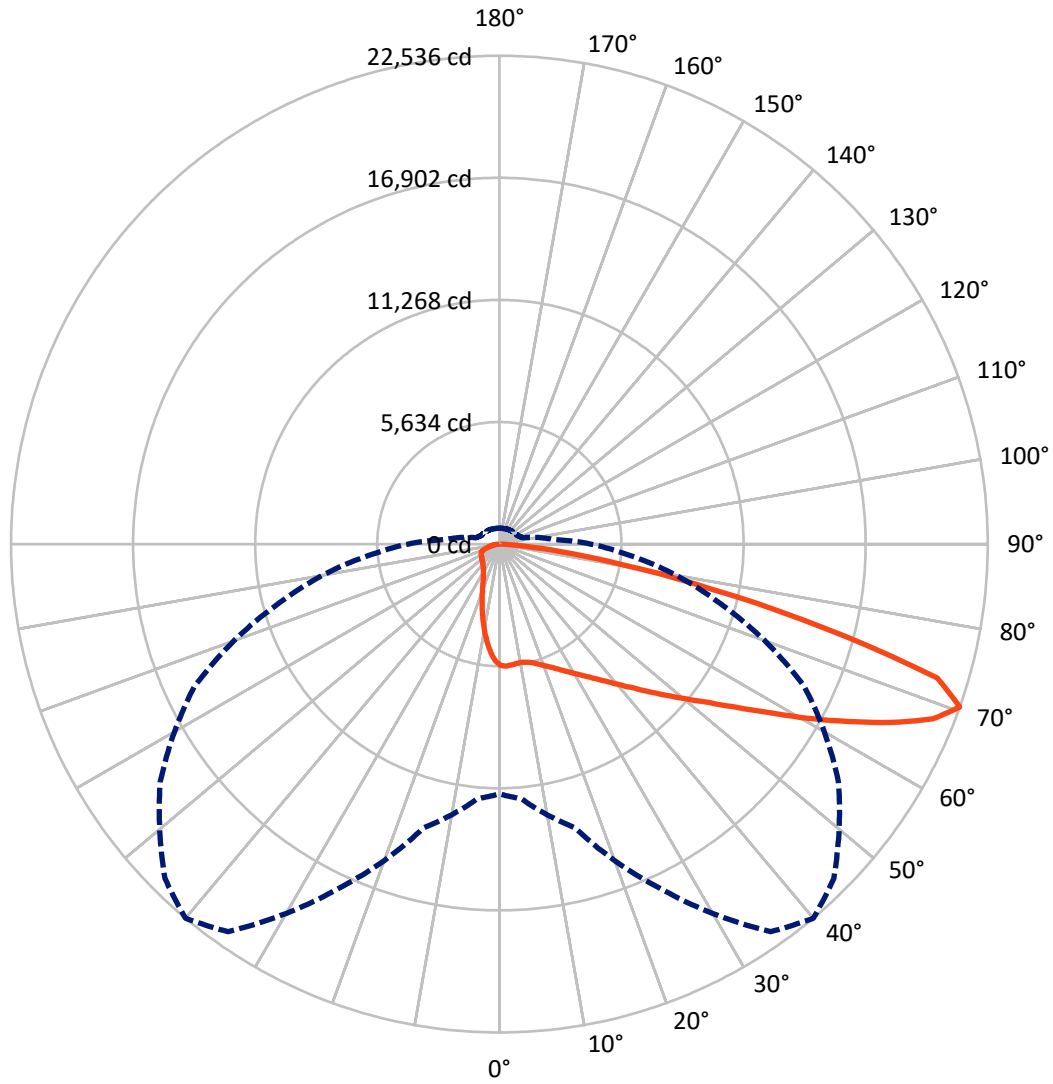
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5077.9	0.0	5077.9
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	27889.8	0.0	27889.8
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	32967.7	0.0	32967.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.6	1.5
10°-20°	1289.1	3.9
20°-30°	2024.1	6.1
30°-40°	3043.4	9.2
40°-50°	4697.5	14.2
50°-60°	6976.2	21.2
60°-70°	8793.4	26.7
70°-80°	5085.1	15.4
80°-90°	564.3	1.7
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°	32967.7	100.0
0°-180°	32967.7	100.0

**Coefficient of Utilization**



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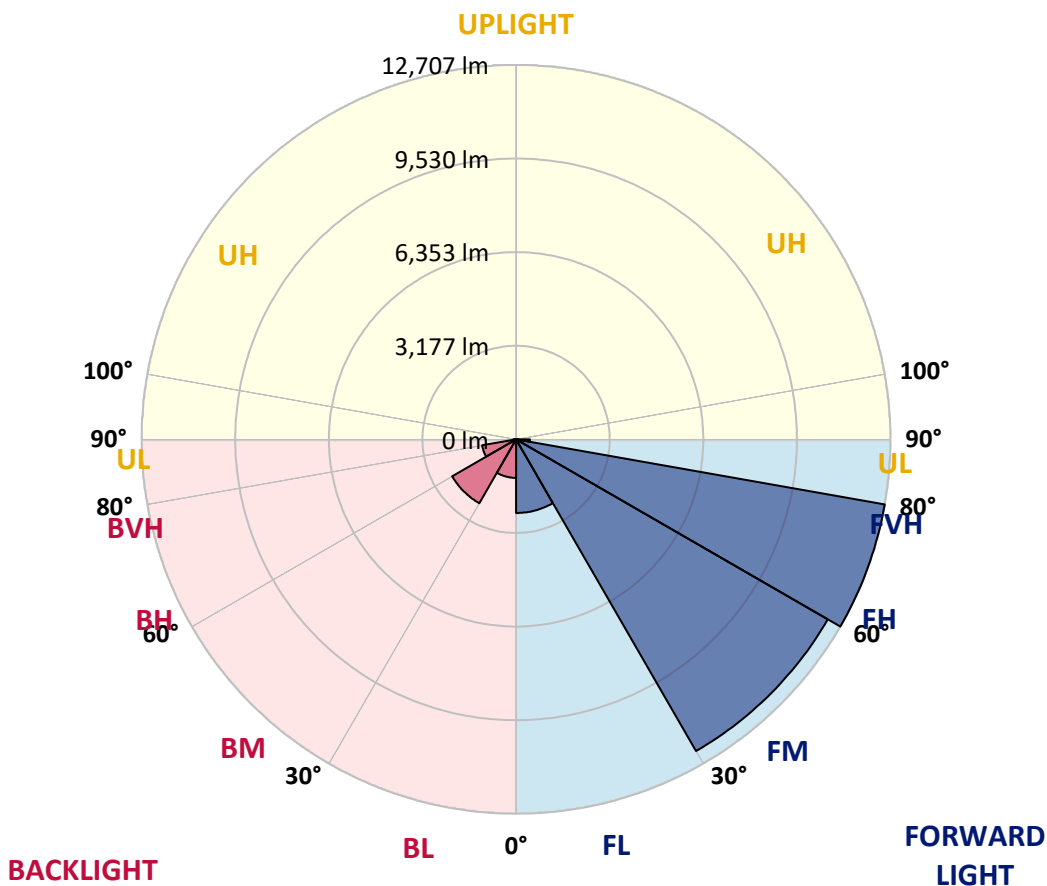
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2499.2	7.6			
FM (30°-60°)	12214.1	37.0			
FH (60°-80°)	12706.5	38.5			G5
FVH (80°-90°)	470.0	1.4			G3/500
BL (0°-30°)	1308.6	4.0	B3/2500		
BM (30°-60°)	2502.9	7.6	B3/5000		
BH (60°-80°)	1172.0	3.6	B3/2500		G3/2500
BVH (80°-90°)	94.3	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5598.3	5598.3	5598.3	5598.3	5598.3	5598.3	5598.3	5598.3	5598.3	5598.3	5598.3
2.5°	5632.7	5642.6	5650.0	5659.8	5654.9	5640.1	5652.4	5652.4	5625.4	5595.8	5568.8
5°	5640.1	5652.4	5650.0	5647.5	5627.8	5603.2	5603.2	5588.5	5541.7	5494.9	5450.6
7.5°	5625.4	5622.9	5620.4	5613.1	5590.9	5563.8	5558.9	5529.4	5467.9	5403.9	5339.9
10°	5558.9	5556.5	5563.8	5581.1	5576.1	5551.5	5551.5	5524.5	5453.1	5374.4	5290.7
12.5°	5504.8	5504.8	5534.3	5581.1	5598.3	5588.5	5590.9	5571.2	5490.0	5396.5	5298.1
15°	5512.2	5514.6	5578.6	5654.9	5686.9	5679.5	5682.0	5659.8	5568.8	5475.3	5342.4
17.5°	5561.4	5573.7	5684.4	5790.2	5832.1	5822.2	5805.0	5768.1	5664.7	5558.9	5396.5
20°	5664.7	5684.4	5827.1	5960.0	6009.2	5987.1	5957.6	5883.7	5770.5	5654.9	5455.6
22.5°	5869.0	5881.3	6038.8	6169.2	6208.6	6181.5	6122.4	6016.6	5886.2	5765.6	5526.9
25°	6156.9	6171.7	6321.8	6442.3	6432.5	6400.5	6319.3	6188.9	6033.9	5905.9	5630.3
27.5°	6498.9	6523.5	6671.2	6767.2	6703.2	6656.4	6565.4	6407.9	6233.2	6117.5	5787.8
30°	6873.0	6882.8	7008.3	7104.3	7005.9	6941.9	6831.1	6661.4	6503.9	6417.7	6024.0
32.5°	7234.7	7244.6	7352.8	7407.0	7303.6	7256.9	7160.9	6981.3	6870.5	6823.8	6375.9
35°	7616.1	7613.7	7702.3	7749.0	7643.2	7623.5	7525.1	7387.3	7367.6	7429.1	6890.2
37.5°	7997.6	7975.4	8022.2	8083.7	8024.6	8044.3	7980.3	7933.6	8009.9	8169.8	7574.3
40°	8302.7	8302.7	8351.9	8428.2	8447.9	8534.0	8497.1	8558.6	8804.7	9186.1	8420.8
42.5°	8573.4	8575.8	8679.2	8797.3	8940.0	9072.9	9102.5	9262.4	9771.8	10369.8	9483.9
45°	8856.4	8858.8	8999.1	9171.4	9474.0	9727.5	9786.6	10145.8	10874.2	11602.6	10638.0
47.5°	9183.7	9156.6	9351.0	9638.9	10069.5	10433.7	10586.3	11095.7	12016.0	12911.8	11725.7
50°	9552.8	9496.2	9712.7	10209.8	10741.3	11240.9	11496.8	12080.0	13241.5	14120.0	12749.3
52.5°	9968.7	9936.7	10163.1	10768.4	11580.5	12156.3	12503.3	13268.6	14432.5	15323.3	13561.4
55°	10485.4	10409.1	10736.4	11506.6	12564.8	13298.1	13709.1	14444.8	15734.3	16415.9	14181.5
57.5°	11051.4	10967.7	11405.8	12429.4	13844.4	14649.1	15163.4	15768.7	16959.8	17252.6	14545.7
60°	11661.7	11634.6	12153.8	13512.2	15370.1	16305.2	16676.8	17225.5	18025.3	17737.4	14454.7
62.5°	12220.3	12210.4	12965.9	14686.0	16986.8	18015.4	18310.7	18455.9	18793.0	17705.4	13731.2
65°	12808.4	12892.1	13913.3	16046.8	18839.8	19848.7	19971.8	19602.6	19051.4	16866.2	12249.8
67.5°	12882.2	13044.6	14508.8	17321.5	20596.8	21549.1	21450.7	20038.2	18288.6	14531.0	9602.0
70°	11521.4	11804.4	13558.9	17515.9	21834.6	22535.9	21824.7	19100.6	15520.2	10527.3	6038.8
72.5°	9626.6	9870.2	11420.5	14937.0	20237.5	21130.8	20168.6	16167.4	10967.7	6038.8	3076.0
75°	7493.1	7776.1	9205.8	11873.3	15151.1	15507.9	15025.6	11275.3	6028.9	2490.3	1397.7
77.5°	4572.1	4776.4	5888.7	8044.3	10601.1	10067.1	8531.6	6321.8	2645.3	1193.5	863.7
80°	2022.8	2148.3	2901.3	4321.1	6124.9	5790.2	4564.8	2699.5	1446.9	757.9	602.9
82.5°	1085.2	1166.4	1429.7	1710.2	2689.6	2812.7	2281.2	1555.2	777.6	433.1	344.5
85°	477.4	524.1	649.6	620.1	883.4	868.7	876.0	1068.0	371.6	199.3	223.9
87.5°	0.0	0.0	0.0	0.0	2.5	2.5	27.1	142.7	36.9	59.1	51.7
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°	5598.3	5598.3	5598.3	5598.3	5598.3	5598.3	5598.3	5598.3	5598.3	5598.3	5598.3
2.5°	5539.2	5494.9	5482.6	5467.9	5440.8	5394.0	5359.6	5320.2	5303.0	5283.3	5285.8
5°	5401.4	5347.3	5295.6	5229.2	5145.5	5052.0	4988.0	4914.2	4874.8	4837.9	4847.8
7.5°	5283.3	5199.6	5093.8	4953.6	4803.5	4636.1	4500.8	4395.0	4323.6	4274.4	4299.0
10°	5209.5	5111.1	4926.5	4697.6	4444.2	4188.3	3993.9	3811.8	3698.6	3610.0	3605.1
12.5°	5194.7	5066.8	4798.5	4466.3	4099.7	3757.6	3472.2	3226.1	3076.0	2965.2	3007.1
15°	5209.5	5047.1	4687.8	4252.2	3789.6	3327.0	2972.6	2689.6	2510.0	2409.1	2401.7
17.5°	5226.7	5027.4	4562.3	4020.9	3464.8	2935.7	2524.8	2224.6	2040.0	1939.1	1941.6
20°	5241.5	4997.9	4414.7	3767.5	3135.0	2571.5	2145.8	1860.4	1695.5	1621.7	1634.0
22.5°	5266.1	4968.3	4257.2	3496.8	2797.9	2219.6	1845.6	1614.3	1515.8	1466.6	1469.1
25°	5312.8	4951.1	4094.8	3201.5	2465.7	1939.1	1638.9	1483.9	1422.3	1392.8	1390.3
27.5°	5408.8	4965.9	3925.0	2916.0	2165.5	1725.0	1506.0	1405.1	1363.3	1343.6	1341.1
30°	5568.8	5024.9	3777.3	2625.7	1907.1	1557.7	1415.0	1353.4	1328.8	1311.6	1309.1
32.5°	5812.4	5135.7	3617.4	2355.0	1697.9	1434.6	1343.6	1311.6	1294.4	1284.5	1284.5
35°	6181.5	5337.4	3459.9	2118.7	1535.5	1338.7	1287.0	1274.7	1259.9	1255.0	1259.9
37.5°	6713.0	5659.8	3317.1	1912.0	1419.9	1264.8	1225.5	1230.4	1218.1	1225.5	1232.9
40°	7387.3	6090.5	3196.6	1742.2	1333.7	1210.7	1171.3	1188.6	1181.2	1188.6	1200.9
42.5°	8241.2	6624.4	3105.5	1609.4	1272.2	1166.4	1129.5	1146.7	1141.8	1151.6	1164.0
45°	9193.5	7328.2	3063.7	1515.8	1227.9	1134.4	1095.1	1107.4	1102.4	1109.8	1122.1
47.5°	10106.5	7968.0	3100.6	1461.7	1191.0	1107.4	1065.5	1070.4	1068.0	1065.5	1072.9
50°	10893.9	8477.4	3206.4	1444.5	1166.4	1080.3	1040.9	1043.4	1036.0	1021.2	1026.1
52.5°	11536.2	8885.9	3270.4	1444.5	1154.1	1050.8	1013.8	1016.3	1001.5	981.9	984.3
55°	11959.4	9050.8	3218.7	1442.0	1149.2	1026.1	986.8	989.2	974.5	949.9	952.3
57.5°	12080.0	8890.8	3002.2	1415.0	1144.3	1006.5	959.7	964.6	954.8	927.7	927.7
60°	11742.9	8305.2	2606.0	1353.4	1132.0	994.2	940.0	947.4	942.5	915.4	915.4
62.5°	10859.5	7264.2	2133.5	1259.9	1097.5	979.4	922.8	937.6	949.9	935.1	932.6
65°	9205.8	5819.8	1734.9	1156.6	1053.2	954.8	898.2	935.1	962.2	981.9	981.9
67.5°	6907.4	4166.1	1415.0	1048.3	986.8	905.6	866.2	900.6	920.3	932.6	940.0
70°	4210.4	2450.9	1114.7	922.8	890.8	831.7	802.2	767.8	740.7	735.8	738.2
72.5°	2059.7	1402.6	905.6	785.0	760.4	706.2	639.8	625.0	612.7	605.4	602.9
75°	1134.4	976.9	748.1	652.1	607.8	541.4	526.6	502.0	497.1	487.2	489.7
77.5°	802.2	770.2	617.7	529.1	462.6	428.2	435.6	418.3	418.3	411.0	408.5
80°	602.9	605.4	474.9	386.3	342.0	329.7	337.1	337.1	332.2	329.7	327.3
82.5°	381.4	430.6	319.9	248.5	243.6	246.1	243.6	241.2	246.1	238.7	236.2
85°	263.3	310.1	194.4	147.6	147.6	145.2	150.1	147.6	152.6	145.2	145.2
87.5°	59.1	137.8	71.4	44.3	46.8	44.3	46.8	49.2	54.1	56.6	56.6
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)