

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: P640348

Luminaire Tested: GWS-SA5D-760-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640348  
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-SA5D-760-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

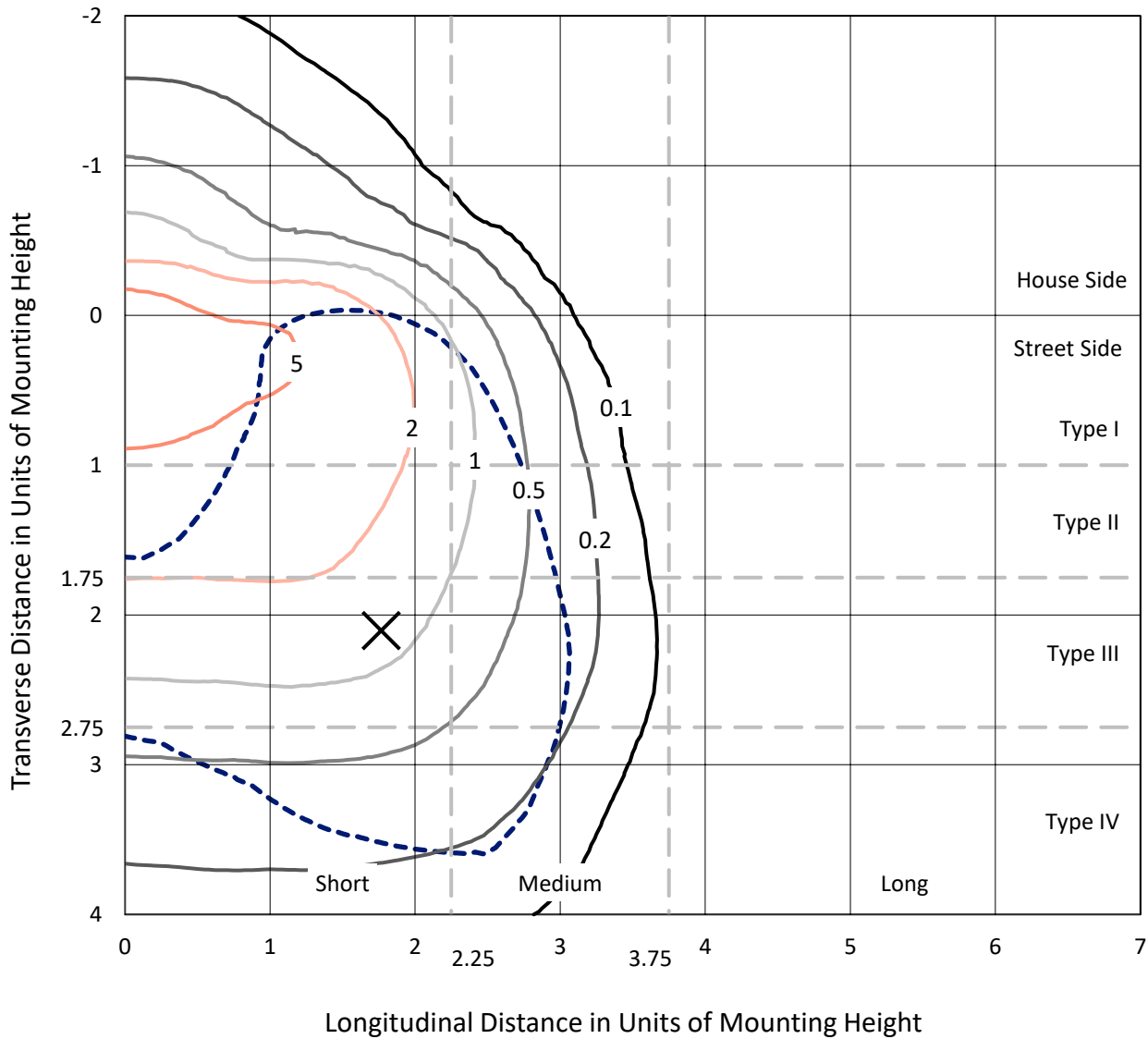
Lumens per Lamp: N/A  
Luminaire Lumens: 29107.7 lumens  
Efficiency: N/A  
Efficacy: 142.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

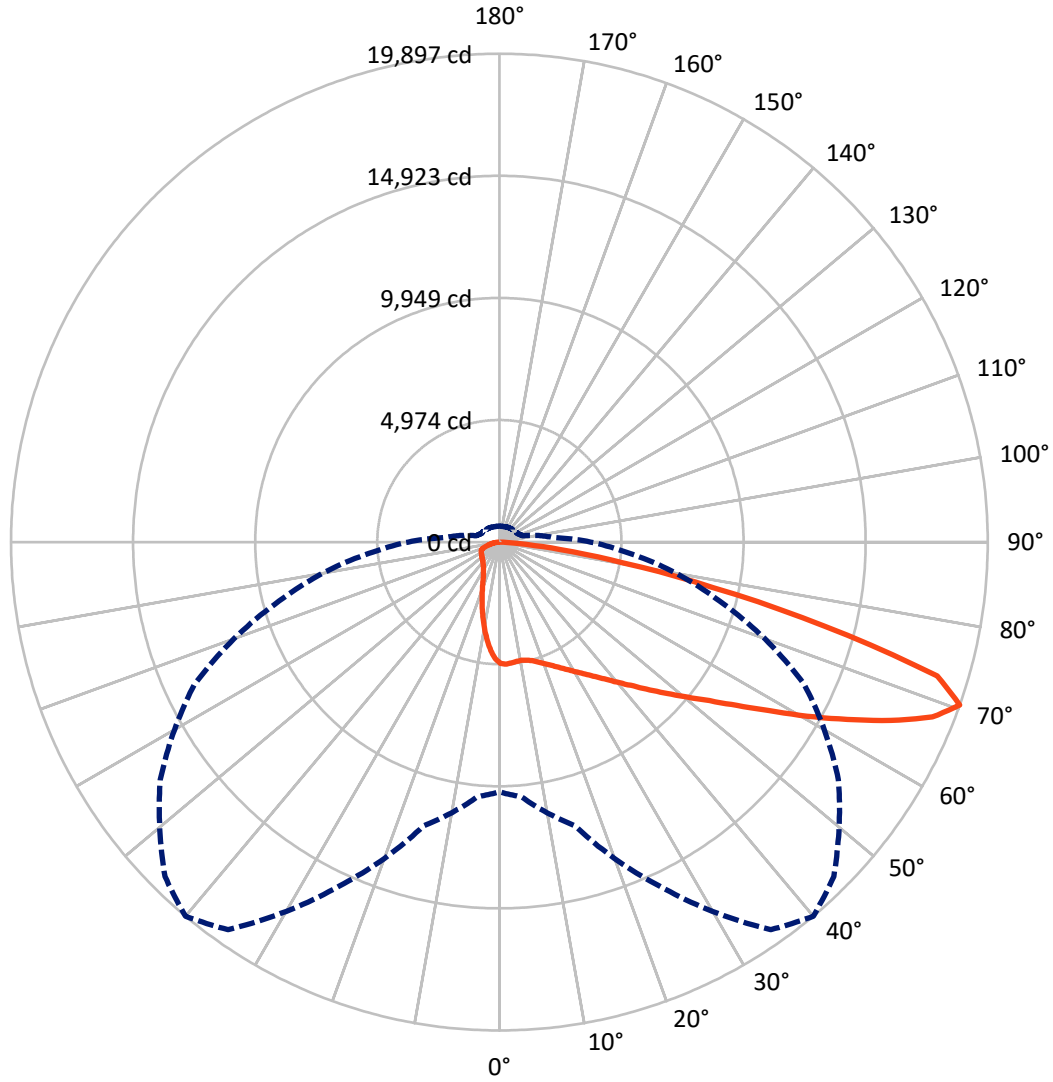
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	4483.3	0.0	4483.3
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	24624.4	0.0	24624.4
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	29107.7	0.0	29107.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	436.7	1.5
10°-20°	1138.2	3.9
20°-30°	1787.2	6.1
30°-40°	2687.0	9.2
40°-50°	4147.5	14.2
50°-60°	6159.4	21.2
60°-70°	7763.8	26.7
70°-80°	4489.7	15.4
80°-90°	498.3	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°	29107.7	100.0
0°-180°	29107.7	100.0

**Coefficient of Utilization**



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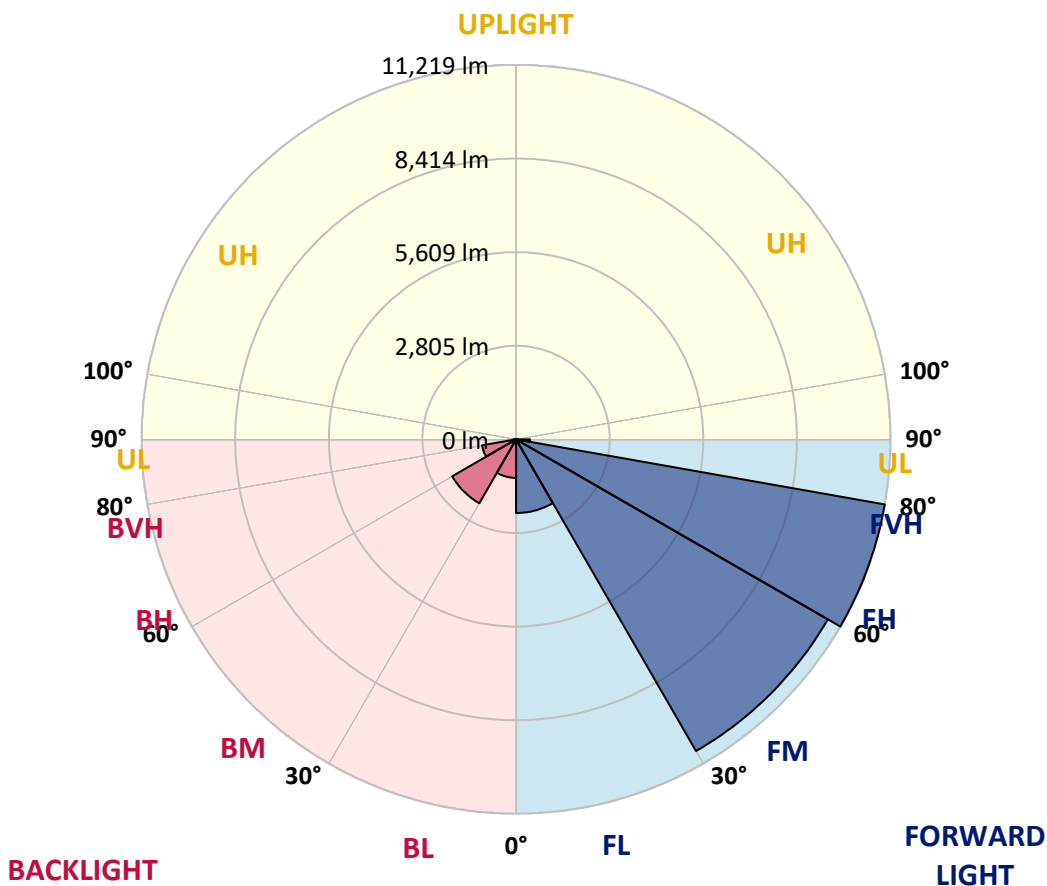
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2206.6	7.6			
FM (30°-60°)	10784.0	37.0			
FH (60°-80°)	11218.8	38.5			G4/12000
FVH (80°-90°)	415.0	1.4			G3/500
BL (0°-30°)	1155.4	4.0	B3/2500		
BM (30°-60°)	2209.9	7.6	B2/2500		
BH (60°-80°)	1034.8	3.6	B3/2500		G3/2500
BVH (80°-90°)	83.3	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8
2.5°	4973.2	4981.9	4988.4	4997.1	4992.8	4979.8	4990.6	4990.6	4966.7	4940.6	4916.7
5°	4979.8	4990.6	4988.4	4986.3	4968.9	4947.2	4947.2	4934.1	4892.8	4851.6	4812.5
7.5°	4966.7	4964.5	4962.4	4955.9	4936.3	4912.4	4908.1	4882.0	4827.7	4771.2	4714.7
10°	4908.1	4905.9	4912.4	4927.6	4923.3	4901.5	4901.5	4877.6	4814.6	4745.1	4671.2
12.5°	4860.3	4860.3	4886.3	4927.6	4942.8	4934.1	4936.3	4918.9	4847.2	4764.7	4677.8
15°	4866.8	4869.0	4925.4	4992.8	5021.0	5014.5	5016.7	4997.1	4916.7	4834.2	4716.9
17.5°	4910.2	4921.1	5018.9	5112.3	5149.2	5140.5	5125.3	5092.7	5001.5	4908.1	4764.7
20°	5001.5	5018.9	5144.9	5262.2	5305.7	5286.1	5260.0	5194.9	5094.9	4992.8	4816.8
22.5°	5181.8	5192.7	5331.7	5446.9	5481.6	5457.7	5405.6	5312.2	5197.0	5090.6	4879.8
25°	5436.0	5449.1	5581.6	5688.0	5679.4	5651.1	5579.4	5464.3	5327.4	5214.4	4971.1
27.5°	5738.0	5759.7	5890.1	5974.8	5918.3	5877.1	5796.7	5657.6	5503.4	5401.3	5110.1
30°	6068.3	6077.0	6187.8	6272.5	6185.6	6129.1	6031.3	5881.4	5742.4	5666.3	5318.7
32.5°	6387.6	6396.3	6491.9	6539.7	6448.5	6407.2	6322.5	6163.9	6066.1	6024.8	5629.4
35°	6724.4	6722.2	6800.5	6841.7	6748.3	6730.9	6644.0	6522.4	6505.0	6559.3	6083.5
37.5°	7061.2	7041.6	7082.9	7137.2	7085.1	7102.5	7046.0	7004.7	7072.0	7213.3	6687.5
40°	7330.6	7330.6	7374.0	7441.4	7458.8	7534.8	7502.2	7556.5	7773.8	8110.6	7434.9
42.5°	7569.6	7571.8	7663.0	7767.3	7893.3	8010.6	8036.7	8177.9	8627.7	9155.6	8373.5
45°	7819.4	7821.6	7945.4	8097.5	8364.8	8588.6	8640.7	8957.9	9601.0	10244.1	9392.4
47.5°	8108.4	8084.5	8256.1	8510.3	8890.6	9212.1	9346.8	9796.6	10609.1	11400.0	10352.8
50°	8434.3	8384.3	8575.5	9014.4	9483.7	9924.8	10150.7	10665.6	11691.1	12466.8	11256.6
52.5°	8801.5	8773.2	8973.1	9507.6	10224.6	10733.0	11039.3	11715.0	12742.7	13529.2	11973.6
55°	9257.7	9190.4	9479.4	10159.4	11093.6	11741.1	12103.9	12753.6	13892.0	14493.9	12521.1
57.5°	9757.5	9683.6	10070.3	10974.1	12223.4	12933.9	13388.0	13922.5	14974.0	15232.6	12842.6
60°	10296.3	10272.4	10730.8	11930.1	13570.5	14396.1	14724.2	15208.7	15914.8	15660.6	12762.3
62.5°	10789.5	10780.8	11447.8	12966.5	14997.9	15906.1	16166.8	16295.0	16592.7	15632.4	12123.5
65°	11308.7	11382.6	12284.3	14168.0	16634.0	17524.7	17633.4	17307.5	16820.8	14891.5	10815.5
67.5°	11373.9	11517.3	12810.1	15293.4	18185.2	19026.1	18939.2	17692.0	16147.3	12829.6	8477.8
70°	10172.4	10422.3	11971.4	15465.1	19278.1	19897.3	19269.4	16864.3	13703.0	9294.7	5331.7
72.5°	8499.5	8714.6	10083.4	13188.1	17868.0	18656.7	17807.2	14274.4	9683.6	5331.7	2715.8
75°	6615.8	6865.6	8128.0	10483.1	13377.1	13692.2	13266.3	9955.2	5323.0	2198.7	1234.1
77.5°	4036.8	4217.1	5199.2	7102.5	9359.9	8888.4	7532.6	5581.6	2335.6	1053.7	762.6
80°	1785.9	1896.7	2561.6	3815.2	5407.8	5112.3	4030.3	2383.4	1277.5	669.2	532.3
82.5°	958.1	1029.8	1262.3	1510.0	2374.7	2483.4	2014.1	1373.1	686.6	382.4	304.2
85°	421.5	462.8	573.6	547.5	780.0	767.0	773.5	942.9	328.1	176.0	197.7
87.5°	0.0	0.0	0.0	0.0	2.2	2.2	23.9	126.0	32.6	52.1	45.6
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°	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8	4942.8
2.5°	4890.7	4851.6	4840.7	4827.7	4803.8	4762.5	4732.1	4697.3	4682.1	4664.7	4666.9
5°	4769.0	4721.2	4675.6	4616.9	4543.1	4460.5	4404.0	4338.8	4304.1	4271.5	4280.2
7.5°	4664.7	4590.8	4497.4	4373.6	4241.0	4093.3	3973.8	3880.4	3817.4	3773.9	3795.7
10°	4599.5	4512.6	4349.7	4147.6	3923.8	3697.9	3526.2	3365.5	3265.5	3187.3	3183.0
12.5°	4586.5	4473.5	4236.7	3943.4	3619.7	3317.7	3065.6	2848.4	2715.8	2618.1	2655.0
15°	4599.5	4456.1	4138.9	3754.4	3345.9	2937.4	2624.6	2374.7	2216.1	2127.0	2120.5
17.5°	4614.7	4438.8	4028.1	3550.1	3059.1	2592.0	2229.2	1964.1	1801.1	1712.1	1714.2
20°	4627.8	4412.7	3897.8	3326.4	2768.0	2270.4	1894.6	1642.5	1497.0	1431.8	1442.7
22.5°	4649.5	4386.6	3758.7	3087.4	2470.3	1959.7	1629.5	1425.3	1338.4	1294.9	1297.1
25°	4690.8	4371.4	3615.3	2826.6	2177.0	1712.1	1447.0	1310.1	1255.8	1229.7	1227.6
27.5°	4775.5	4384.4	3465.4	2574.6	1911.9	1523.0	1329.7	1240.6	1203.7	1186.3	1184.1
30°	4916.7	4436.6	3335.0	2318.2	1683.8	1375.3	1249.3	1195.0	1173.2	1158.0	1155.9
32.5°	5131.8	4534.4	3193.8	2079.2	1499.1	1266.7	1186.3	1158.0	1142.8	1134.1	1134.1
35°	5457.7	4712.5	3054.8	1870.7	1355.7	1181.9	1136.3	1125.4	1112.4	1108.1	1112.4
37.5°	5927.0	4997.1	2928.8	1688.2	1253.6	1116.8	1082.0	1086.3	1075.5	1082.0	1088.5
40°	6522.4	5377.4	2822.3	1538.2	1177.6	1069.0	1034.2	1049.4	1042.9	1049.4	1060.3
42.5°	7276.3	5848.8	2741.9	1420.9	1123.3	1029.8	997.3	1012.5	1008.1	1016.8	1027.7
45°	8117.1	6470.2	2705.0	1338.4	1084.2	1001.6	966.8	977.7	973.4	979.9	990.7
47.5°	8923.2	7035.1	2737.6	1290.6	1051.6	977.7	940.8	945.1	942.9	940.8	947.3
50°	9618.4	7484.8	2831.0	1275.4	1029.8	953.8	919.0	921.2	914.7	901.7	906.0
52.5°	10185.5	7845.5	2887.5	1275.4	1019.0	927.7	895.1	897.3	884.3	866.9	869.1
55°	10559.2	7991.1	2841.9	1273.2	1014.6	906.0	871.2	873.4	860.4	838.7	840.8
57.5°	10665.6	7849.9	2650.7	1249.3	1010.3	888.6	847.3	851.7	843.0	819.1	819.1
60°	10368.0	7332.8	2300.9	1195.0	999.4	877.8	830.0	836.5	832.1	808.2	808.2
62.5°	9588.0	6413.7	1883.7	1112.4	969.0	864.7	814.8	827.8	838.7	825.6	823.4
65°	8128.0	5138.4	1531.7	1021.2	929.9	843.0	793.0	825.6	849.5	866.9	866.9
67.5°	6098.7	3678.3	1249.3	925.6	871.2	799.5	764.8	795.2	812.6	823.4	830.0
70°	3717.4	2164.0	984.2	814.8	786.5	734.4	708.3	677.9	654.0	649.6	651.8
72.5°	1818.5	1238.4	799.5	693.1	671.4	623.6	564.9	551.9	541.0	534.5	532.3
75°	1001.6	862.5	660.5	575.8	536.6	478.0	465.0	443.2	438.9	430.2	432.4
77.5°	708.3	680.0	545.3	467.1	408.5	378.0	384.6	369.4	369.4	362.8	360.7
80°	532.3	534.5	419.3	341.1	302.0	291.1	297.7	297.7	293.3	291.1	289.0
82.5°	336.8	380.2	282.4	219.4	215.1	217.3	215.1	212.9	217.3	210.7	208.6
85°	232.5	273.8	171.6	130.4	130.4	128.2	132.5	130.4	134.7	128.2	128.2
87.5°	52.1	121.7	63.0	39.1	41.3	39.1	41.3	43.5	47.8	50.0	50.0
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)