

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: P640238

Luminaire Tested: GWS-SA5D-740-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640238
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-740-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28851.1 lumens
Efficiency: N/A
Efficacy: 141.0 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

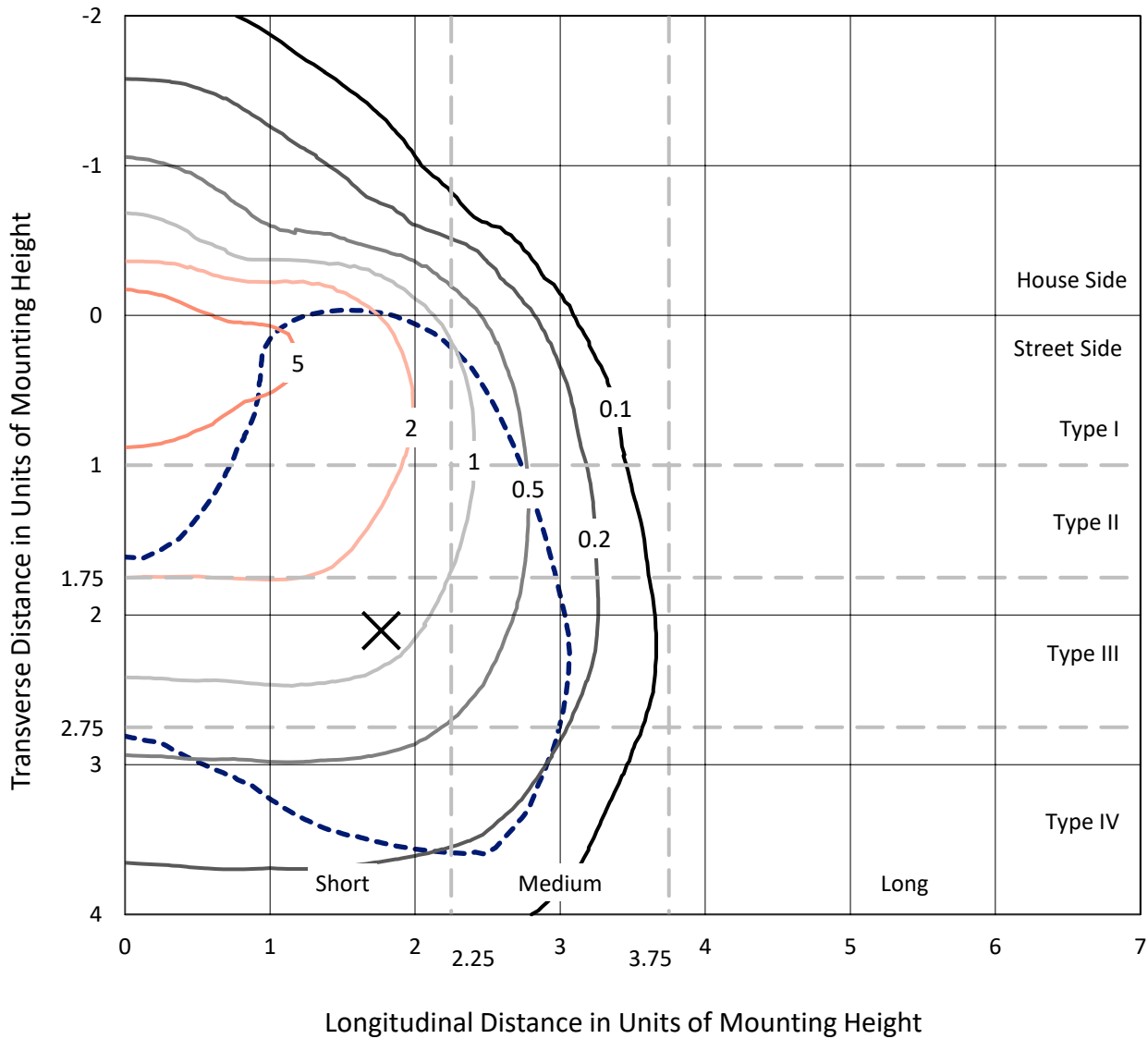


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Iso-Footcandle Lines of Horizontal Illumination

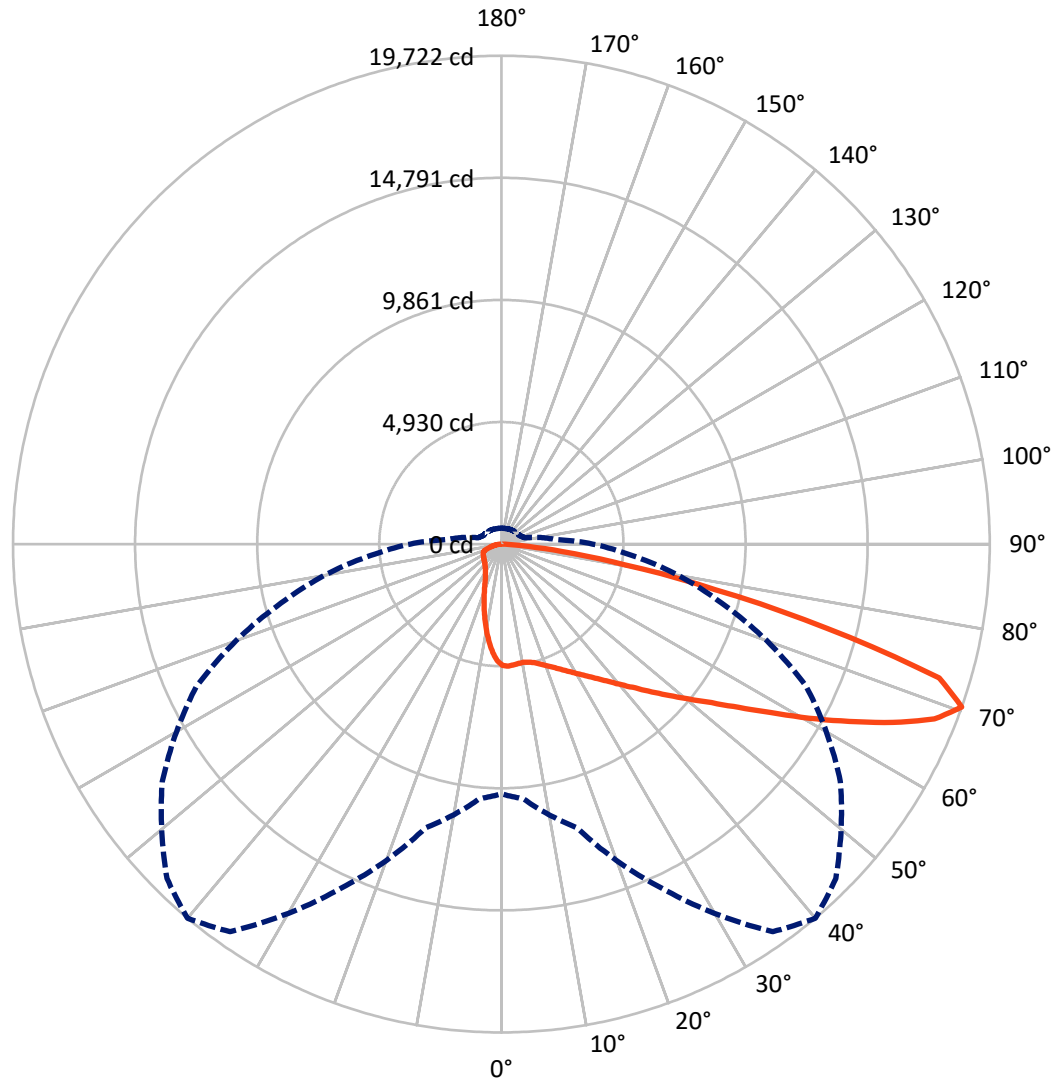
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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
House Side	Lumens	4443.8	0.0	4443.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	24407.3	0.0	24407.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	28851.1	0.0	28851.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.8	1.5
10°-20°	1128.2	3.9
20°-30°	1771.4	6.1
30°-40°	2663.3	9.2
40°-50°	4110.9	14.2
50°-60°	6105.1	21.2
60°-70°	7695.4	26.7
70°-80°	4450.2	15.4
80°-90°	493.9	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°	28851.1	100.0
0°-180°	28851.1	100.0

Coefficient of Utilization



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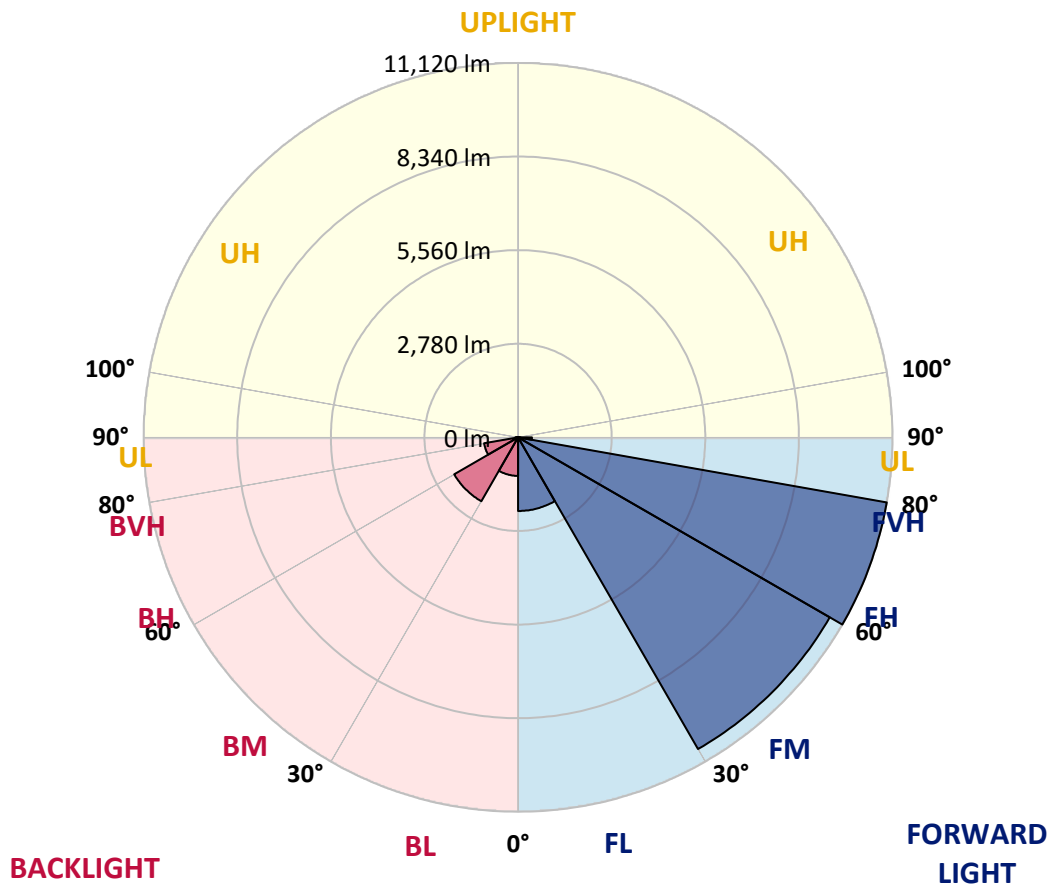
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2187.1	7.6			
FM (30°-60°)	10689.0	37.0			
FH (60°-80°)	11119.9	38.5			G4/12000
FVH (80°-90°)	411.3	1.4			G3/500
BL (0°-30°)	1145.2	4.0	B3/2500		
BM (30°-60°)	2190.4	7.6	B2/2500		
BH (60°-80°)	1025.6	3.6	B3/2500		G3/2500
BVH (80°-90°)	82.6	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°	4899.2	4899.2	4899.2	4899.2	4899.2	4899.2	4899.2	4899.2	4899.2	4899.2	4899.2
2.5°	4929.4	4938.0	4944.5	4953.1	4948.8	4935.9	4946.6	4946.6	4922.9	4897.1	4873.4
5°	4935.9	4946.6	4944.5	4942.3	4925.1	4903.6	4903.6	4890.6	4849.7	4808.8	4770.0
7.5°	4922.9	4920.8	4918.6	4912.2	4892.8	4869.1	4864.8	4838.9	4785.1	4729.1	4673.1
10°	4864.8	4862.6	4869.1	4884.2	4879.9	4858.3	4858.3	4834.6	4772.2	4703.3	4630.1
12.5°	4817.4	4817.4	4843.3	4884.2	4899.2	4890.6	4892.8	4875.6	4804.5	4722.7	4636.5
15°	4823.9	4826.0	4882.0	4948.8	4976.8	4970.3	4972.5	4953.1	4873.4	4791.6	4675.3
17.5°	4866.9	4877.7	4974.6	5067.2	5103.8	5095.2	5080.1	5047.8	4957.4	4864.8	4722.7
20°	4957.4	4974.6	5099.5	5215.8	5258.9	5239.5	5213.7	5149.1	5050.0	4948.8	4774.3
22.5°	5136.1	5146.9	5284.7	5398.9	5433.3	5409.6	5357.9	5265.3	5151.2	5045.7	4836.8
25°	5388.1	5401.0	5532.4	5637.9	5629.3	5601.3	5530.2	5416.1	5280.4	5168.4	4927.2
27.5°	5687.4	5709.0	5838.2	5922.2	5866.2	5825.3	5745.6	5607.8	5454.9	5353.6	5065.1
30°	6014.8	6023.4	6133.2	6217.2	6131.1	6075.1	5978.2	5829.6	5691.7	5616.4	5271.8
32.5°	6331.3	6339.9	6434.7	6482.1	6391.6	6350.7	6266.7	6109.5	6012.6	5971.7	5579.8
35°	6665.1	6663.0	6740.5	6781.4	6688.8	6671.6	6585.5	6464.9	6447.6	6501.5	6029.8
37.5°	6998.9	6979.5	7020.5	7074.3	7022.6	7039.8	6983.9	6942.9	7009.7	7149.7	6628.5
40°	7266.0	7266.0	7309.0	7375.8	7393.0	7468.4	7436.1	7489.9	7705.3	8039.1	7369.3
42.5°	7502.8	7505.0	7595.4	7698.8	7823.7	7940.0	7965.9	8105.8	8551.6	9074.9	8299.6
45°	7750.5	7752.7	7875.4	8026.2	8291.0	8512.8	8564.5	8878.9	9516.4	10153.8	9309.6
47.5°	8036.9	8013.2	8183.4	8435.3	8812.2	9130.9	9264.4	9710.2	10515.6	11299.5	10261.5
50°	8359.9	8310.4	8499.9	8934.9	9400.1	9837.3	10061.2	10571.6	11588.1	12356.9	11157.4
52.5°	8723.9	8695.9	8894.0	9423.8	10134.4	10638.4	10942.0	11611.8	12630.4	13409.9	11868.0
55°	9176.1	9109.4	9395.8	10069.8	10995.8	11637.6	11997.2	12641.1	13769.6	14366.1	12410.7
57.5°	9671.4	9598.2	9981.5	10877.4	12115.7	12819.9	13270.0	13799.7	14842.0	15098.3	12729.4
60°	10205.5	10181.8	10636.2	11825.0	13450.9	14269.2	14594.4	15074.6	15774.5	15522.5	12649.7
62.5°	10694.4	10685.7	11346.9	12852.2	14865.7	15765.9	16024.3	16151.4	16446.4	15494.5	12016.6
65°	11209.0	11282.3	12176.0	14043.1	16487.3	17370.3	17477.9	17154.9	16672.5	14760.2	10720.2
67.5°	11273.7	11415.8	12697.1	15158.6	18024.9	18858.3	18772.2	17536.1	16004.9	12716.5	8403.0
70°	10082.8	10330.4	11865.9	15328.7	19108.1	19721.9	19099.5	16715.6	13582.2	9212.7	5284.7
72.5°	8424.6	8637.8	9994.5	13071.8	17710.5	18492.2	17650.2	14148.6	9598.2	5284.7	2691.9
75°	6557.5	6805.1	8056.3	10390.7	13259.2	13571.5	13149.4	9867.4	5276.1	2179.4	1223.2
77.5°	4001.2	4180.0	5153.4	7039.8	9277.3	8810.0	7466.2	5532.4	2315.0	1044.5	755.9
80°	1770.2	1880.0	2539.0	3781.6	5360.1	5067.2	3994.8	2362.4	1266.3	663.3	527.6
82.5°	949.7	1020.8	1251.2	1496.7	2353.8	2461.5	1996.3	1361.0	680.5	379.0	301.5
85°	417.8	458.7	568.5	542.7	773.1	760.2	766.7	934.6	325.2	174.4	196.0
87.5°	0.0	0.0	0.0	0.0	2.2	2.2	23.7	124.9	32.3	51.7	45.2
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°	4899.2	4899.2	4899.2	4899.2	4899.2	4899.2	4899.2	4899.2	4899.2	4899.2	4899.2
2.5°	4847.6	4808.8	4798.0	4785.1	4761.4	4720.5	4690.4	4655.9	4640.8	4623.6	4625.8
5°	4727.0	4679.6	4634.4	4576.2	4503.0	4421.2	4365.2	4300.6	4266.1	4233.8	4242.4
7.5°	4623.6	4550.4	4457.8	4335.0	4203.7	4057.2	3938.8	3846.2	3783.7	3740.7	3762.2
10°	4559.0	4472.9	4311.3	4111.1	3889.2	3665.3	3495.2	3335.8	3236.7	3159.2	3154.9
12.5°	4546.1	4434.1	4199.4	3908.6	3587.8	3288.4	3038.6	2823.3	2691.9	2595.0	2631.6
15°	4559.0	4416.9	4102.4	3721.3	3316.4	2911.6	2601.4	2353.8	2196.6	2108.3	2101.8
17.5°	4574.1	4399.6	3992.6	3518.8	3032.1	2569.1	2209.5	1946.8	1785.3	1697.0	1699.1
20°	4587.0	4373.8	3863.4	3297.0	2743.6	2250.4	1877.9	1628.1	1483.8	1419.2	1429.9
22.5°	4608.5	4347.9	3725.6	3060.1	2448.5	1942.5	1615.1	1412.7	1326.6	1283.5	1285.6
25°	4649.4	4332.9	3583.4	2801.7	2157.8	1697.0	1434.2	1298.6	1244.7	1218.9	1216.7
27.5°	4733.4	4345.8	3434.9	2551.9	1895.1	1509.6	1318.0	1229.7	1193.0	1175.8	1173.7
30°	4873.4	4397.5	3305.6	2297.8	1669.0	1363.2	1238.3	1184.4	1162.9	1147.8	1145.7
32.5°	5086.6	4494.4	3165.7	2060.9	1485.9	1255.5	1175.8	1147.8	1132.7	1124.1	1124.1
35°	5409.6	4671.0	3027.8	1854.2	1343.8	1171.5	1126.3	1115.5	1102.6	1098.3	1102.6
37.5°	5874.8	4953.1	2902.9	1673.3	1242.6	1106.9	1072.5	1076.8	1066.0	1072.5	1078.9
40°	6464.9	5330.0	2797.4	1524.7	1167.2	1059.5	1025.1	1040.1	1033.7	1040.1	1050.9
42.5°	7212.1	5797.3	2717.7	1408.4	1113.4	1020.8	988.5	1003.5	999.2	1007.8	1018.6
45°	8045.5	6413.2	2681.1	1326.6	1074.6	992.8	958.3	969.1	964.8	971.2	982.0
47.5°	8844.5	6973.1	2713.4	1279.2	1042.3	969.1	932.5	936.8	934.6	932.5	938.9
50°	9533.6	7418.9	2806.0	1264.1	1020.8	945.4	910.9	913.1	906.6	893.7	898.0
52.5°	10095.7	7776.3	2862.0	1264.1	1010.0	919.6	887.2	889.4	876.5	859.3	861.4
55°	10466.1	7920.6	2816.8	1262.0	1005.7	898.0	863.6	865.7	852.8	831.3	833.4
57.5°	10571.6	7780.7	2627.3	1238.3	1001.4	880.8	839.9	844.2	835.6	811.9	811.9
60°	10276.6	7268.1	2280.6	1184.4	990.6	870.0	822.6	829.1	824.8	801.1	801.1
62.5°	9503.5	6357.2	1867.1	1102.6	960.5	857.1	807.6	820.5	831.3	818.3	816.2
65°	8056.3	5093.1	1518.2	1012.2	921.7	835.6	786.0	818.3	842.0	859.3	859.3
67.5°	6044.9	3645.9	1238.3	917.4	863.6	792.5	758.0	788.2	805.4	816.2	822.6
70°	3684.7	2144.9	975.5	807.6	779.6	727.9	702.0	671.9	648.2	643.9	646.1
72.5°	1802.5	1227.5	792.5	687.0	665.4	618.1	559.9	547.0	536.2	529.8	527.6
75°	992.8	854.9	654.7	570.7	531.9	473.8	460.9	439.3	435.0	426.4	428.5
77.5°	702.0	674.1	540.5	463.0	404.9	374.7	381.2	366.1	366.1	359.6	357.5
80°	527.6	529.8	415.6	338.1	299.3	288.6	295.0	295.0	290.7	288.6	286.4
82.5°	333.8	376.9	280.0	217.5	213.2	215.4	213.2	211.0	215.4	208.9	206.7
85°	230.4	271.3	170.1	129.2	129.2	127.1	131.4	129.2	133.5	127.1	127.1
87.5°	51.7	120.6	62.5	38.8	40.9	38.8	40.9	43.1	47.4	49.5	49.5
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)