

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: P640128

Luminaire Tested: GWS-SA5D-730-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640128
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-730-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26272.2 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

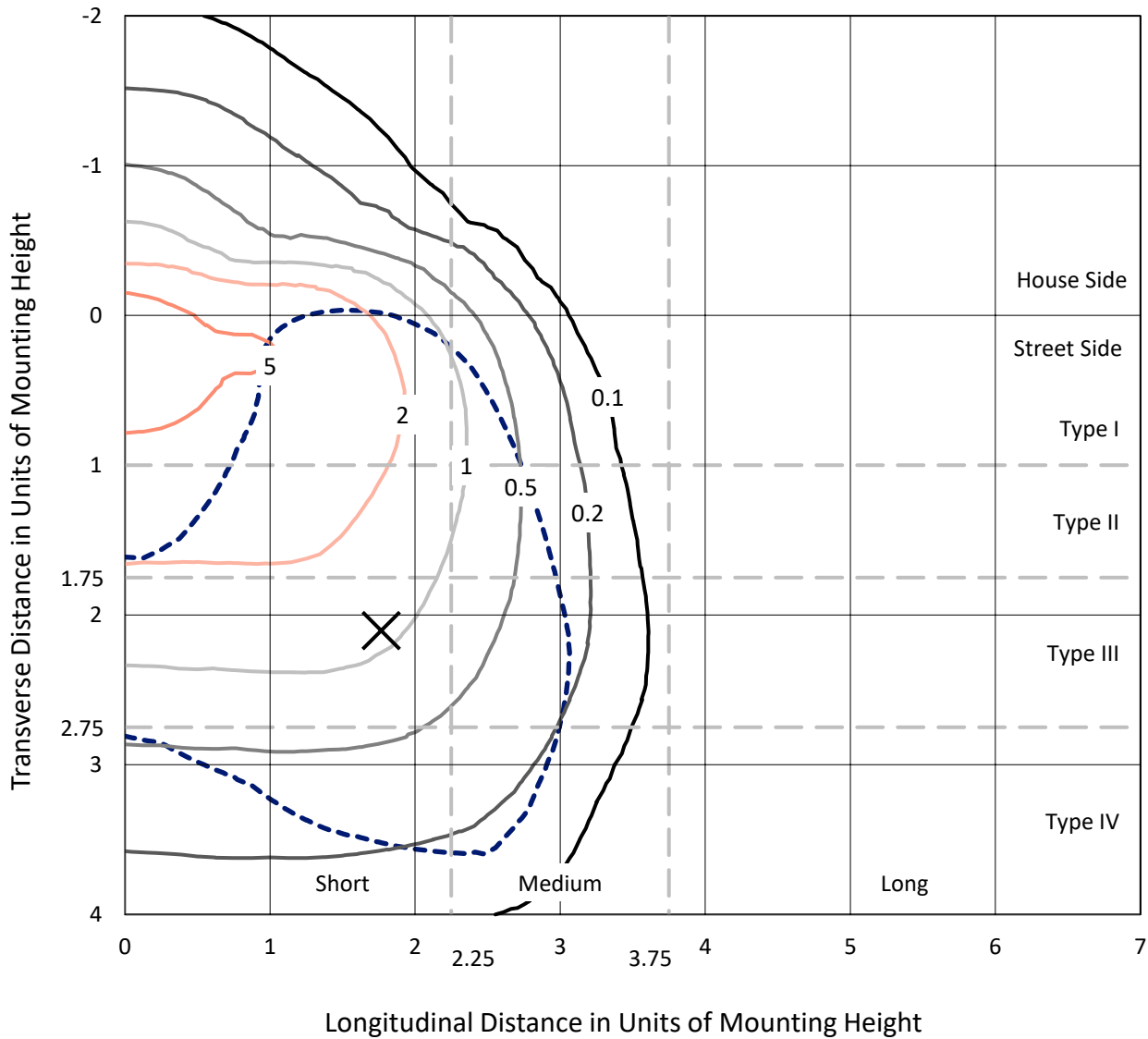
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

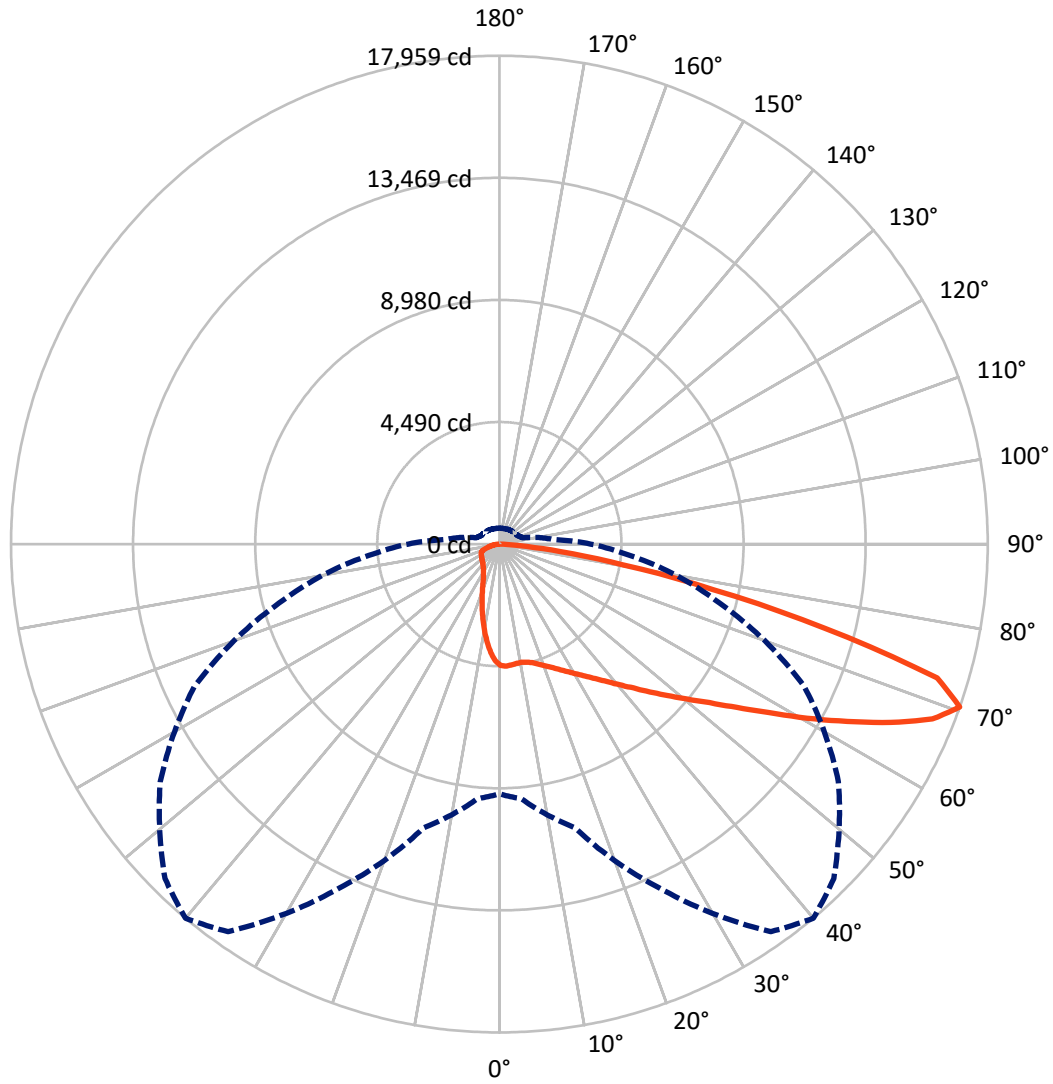
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	4046.6	0.0	4046.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	22225.6	0.0	22225.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	26272.2	0.0	26272.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.1	1.5
10°-20°	1027.3	3.9
20°-30°	1613.1	6.1
30°-40°	2425.3	9.2
40°-50°	3743.5	14.2
50°-60°	5559.4	21.2
60°-70°	7007.5	26.7
70°-80°	4052.4	15.4
80°-90°	449.7	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°	26272.2	100.0
0°-180°	26272.2	100.0

Coefficient of Utilization



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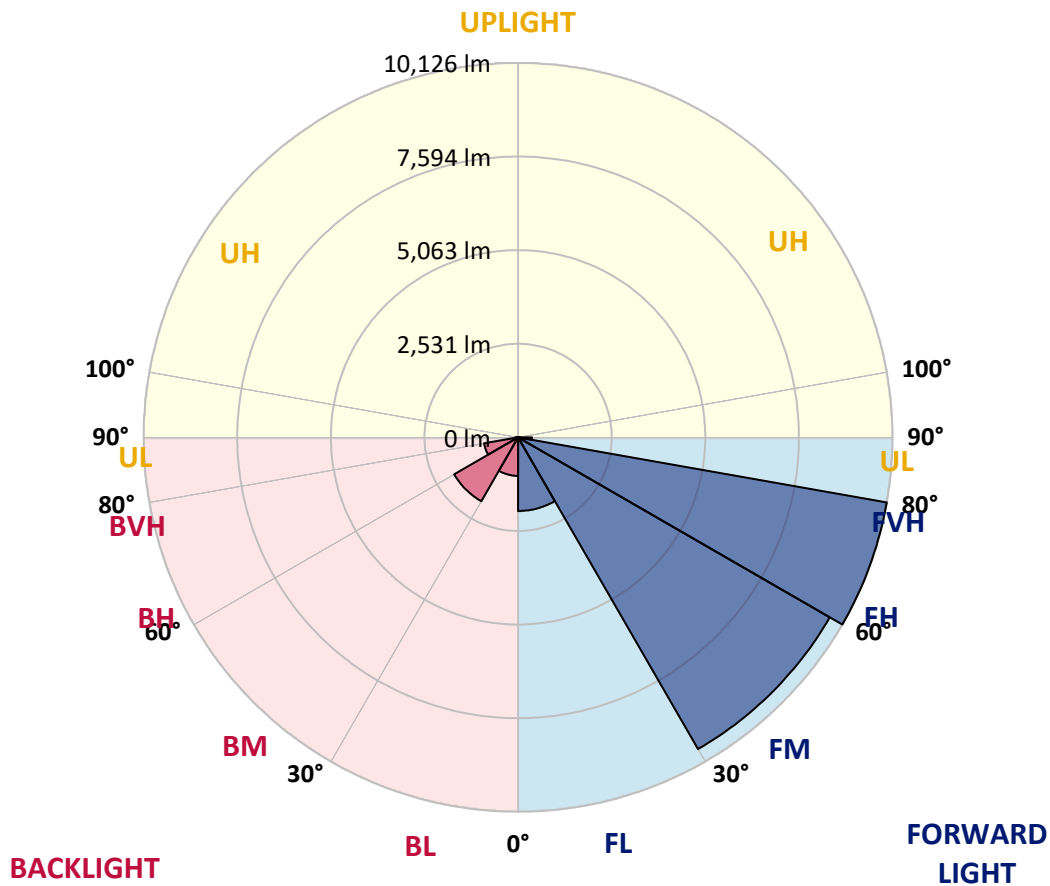
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1991.6	7.6			
FM (30°-60°)	9733.5	37.0			
FH (60°-80°)	10125.9	38.5			G4/12000
FVH (80°-90°)	374.6	1.4			G3/500
BL (0°-30°)	1042.9	4.0	B3/2500		
BM (30°-60°)	1994.6	7.6	B2/2500		
BH (60°-80°)	934.0	3.6	B2/1000		G2/1000
BVH (80°-90°)	75.2	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°	4461.3	4461.3	4461.3	4461.3	4461.3	4461.3	4461.3	4461.3	4461.3	4461.3	4461.3
2.5°	4488.8	4496.6	4502.5	4510.3	4506.4	4494.7	4504.5	4504.5	4482.9	4459.4	4437.8
5°	4494.7	4504.5	4502.5	4500.5	4484.9	4465.2	4465.2	4453.5	4416.2	4379.0	4343.7
7.5°	4482.9	4480.9	4479.0	4473.1	4455.4	4433.9	4429.9	4406.4	4357.4	4306.4	4255.4
10°	4429.9	4428.0	4433.9	4447.6	4443.7	4424.1	4424.1	4402.5	4345.6	4282.9	4216.2
12.5°	4386.8	4386.8	4410.3	4447.6	4461.3	4453.5	4455.4	4439.7	4375.0	4300.5	4222.1
15°	4392.7	4394.6	4445.6	4506.4	4531.9	4526.0	4528.0	4510.3	4437.8	4363.3	4257.4
17.5°	4431.9	4441.7	4530.0	4614.3	4647.6	4639.8	4626.0	4596.6	4514.3	4429.9	4300.5
20°	4514.3	4530.0	4643.7	4749.6	4788.8	4771.2	4747.6	4688.8	4598.6	4506.4	4347.6
22.5°	4677.0	4686.8	4812.3	4916.3	4947.7	4926.1	4879.0	4794.7	4690.8	4594.7	4404.5
25°	4906.5	4918.2	5037.9	5134.0	5126.1	5100.6	5035.9	4932.0	4808.4	4706.4	4486.8
27.5°	5179.1	5198.7	5316.3	5392.8	5341.8	5304.6	5232.0	5106.5	4967.3	4875.1	4612.3
30°	5477.1	5485.0	5585.0	5661.5	5583.0	5532.0	5443.8	5308.5	5183.0	5114.3	4800.6
32.5°	5765.4	5773.2	5859.5	5902.7	5820.3	5783.0	5706.6	5563.4	5475.2	5437.9	5081.0
35°	6069.4	6067.4	6138.0	6175.3	6090.9	6075.2	5996.8	5887.0	5871.3	5920.3	5490.9
37.5°	6373.3	6355.7	6392.9	6442.0	6394.9	6410.6	6359.6	6322.3	6383.1	6510.6	6036.0
40°	6616.5	6616.5	6655.7	6716.5	6732.2	6800.8	6771.4	6820.4	7016.5	7320.5	6710.6
42.5°	6832.2	6834.2	6916.5	7010.6	7124.4	7230.3	7253.8	7381.3	7787.2	8263.7	7557.8
45°	7057.7	7059.7	7171.5	7308.7	7549.9	7751.9	7799.0	8085.3	8665.7	9246.2	8477.5
47.5°	7318.5	7297.0	7451.9	7681.3	8024.5	8314.7	8436.3	8842.2	9575.7	10289.5	9344.3
50°	7612.7	7567.6	7740.1	8136.3	8559.9	8957.9	9161.9	9626.6	10552.2	11252.3	10160.0
52.5°	7944.1	7918.6	8099.0	8581.4	9228.6	9687.4	9963.9	10573.8	11501.4	12211.3	10807.2
55°	8355.9	8295.1	8555.9	9169.7	10013.0	10597.4	10924.8	11511.2	12538.8	13082.0	11301.4
57.5°	8806.9	8740.3	9089.3	9905.1	11032.7	11674.0	12083.8	12566.2	13515.4	13748.7	11591.6
60°	9293.3	9271.7	9685.5	10768.0	12248.5	12993.7	13289.8	13727.1	14364.5	14135.0	11519.0
62.5°	9738.4	9730.6	10332.6	11703.4	13536.9	14356.6	14592.0	14707.7	14976.3	14109.5	10942.5
65°	10207.1	10273.8	11087.6	12787.8	15013.6	15817.6	15915.6	15621.5	15182.2	13440.8	9762.0
67.5°	10265.9	10395.4	11562.2	13803.6	16413.7	17172.7	17094.2	15968.6	14574.3	11579.8	7651.9
70°	9181.5	9407.0	10805.2	13958.5	17400.1	17959.0	17392.3	15221.4	12368.2	8389.2	4812.3
72.5°	7671.5	7865.7	9101.1	11903.4	16127.4	16839.3	16072.5	12883.9	8740.3	4812.3	2451.3
75°	5971.3	6196.8	7336.2	9461.9	12074.0	12358.3	11974.0	8985.4	4804.5	1984.6	1113.9
77.5°	3643.6	3806.3	4692.7	6410.6	8448.1	8022.5	6798.9	5037.9	2108.1	951.1	688.3
80°	1612.0	1712.0	2312.0	3443.6	4881.0	4614.3	3637.7	2151.2	1153.1	604.0	480.4
82.5°	864.8	929.5	1139.4	1362.9	2143.4	2241.4	1817.9	1239.4	619.7	345.1	274.5
85°	380.4	417.7	517.7	494.2	704.0	692.2	698.1	851.1	296.1	158.8	178.5
87.5°	0.0	0.0	0.0	0.0	2.0	2.0	21.6	113.7	29.4	47.1	41.2
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°	4461.3	4461.3	4461.3	4461.3	4461.3	4461.3	4461.3	4461.3	4461.3	4461.3	4461.3
2.5°	4414.3	4379.0	4369.2	4357.4	4335.8	4298.6	4271.1	4239.7	4226.0	4210.3	4212.3
5°	4304.4	4261.3	4220.1	4167.2	4100.5	4026.0	3975.0	3916.2	3884.8	3855.4	3863.2
7.5°	4210.3	4143.6	4059.3	3947.5	3827.9	3694.6	3586.7	3502.4	3445.5	3406.3	3425.9
10°	4151.5	4073.0	3926.0	3743.6	3541.6	3337.7	3182.7	3037.6	2947.4	2876.8	2872.9
12.5°	4139.7	4037.7	3824.0	3559.3	3267.1	2994.5	2767.0	2570.9	2451.3	2363.0	2396.4
15°	4151.5	4022.1	3735.7	3388.6	3020.0	2651.3	2368.9	2143.4	2000.2	1919.8	1914.0
17.5°	4165.2	4006.4	3635.7	3204.3	2761.1	2339.5	2012.0	1772.8	1625.7	1545.3	1547.2
20°	4177.0	3982.8	3518.1	3002.3	2498.3	2049.3	1710.0	1482.5	1351.1	1292.3	1302.1
22.5°	4196.6	3959.3	3392.6	2786.6	2229.7	1768.8	1470.8	1286.4	1208.0	1168.8	1170.7
25°	4233.8	3945.6	3263.1	2551.3	1964.9	1545.3	1306.0	1182.5	1133.5	1109.9	1108.0
27.5°	4310.3	3957.3	3127.8	2323.8	1725.7	1374.7	1200.1	1119.7	1086.4	1070.7	1068.8
30°	4437.8	4004.4	3010.2	2092.4	1519.8	1241.3	1127.6	1078.6	1059.0	1045.2	1043.3
32.5°	4631.9	4092.6	2882.7	1876.7	1353.1	1143.3	1070.7	1045.2	1031.5	1023.7	1023.7
35°	4926.1	4253.5	2757.2	1688.4	1223.7	1066.8	1025.6	1015.8	1004.0	1000.1	1004.0
37.5°	5349.7	4510.3	2643.5	1523.7	1131.5	1008.0	976.6	980.5	970.7	976.6	982.5
40°	5887.0	4853.5	2547.4	1388.4	1062.9	964.8	933.4	947.2	941.3	947.2	957.0
42.5°	6567.5	5279.1	2474.8	1282.5	1013.8	929.5	900.1	913.8	909.9	917.8	927.6
45°	7326.4	5839.9	2441.5	1208.0	978.5	904.0	872.7	882.5	878.5	884.4	894.2
47.5°	8053.9	6349.8	2470.9	1164.8	949.1	882.5	849.1	853.0	851.1	849.1	855.0
50°	8681.4	6755.7	2555.2	1151.1	929.5	860.9	829.5	831.5	825.6	813.8	817.7
52.5°	9193.3	7081.2	2606.2	1151.1	919.7	837.4	807.9	809.9	798.1	782.4	784.4
55°	9530.6	7212.6	2565.0	1149.2	915.8	817.7	786.4	788.3	776.6	757.0	758.9
57.5°	9626.6	7085.2	2392.4	1127.6	911.9	802.1	764.8	768.7	760.9	739.3	739.3
60°	9358.0	6618.4	2076.7	1078.6	902.1	792.3	749.1	755.0	751.1	729.5	729.5
62.5°	8654.0	5788.9	1700.2	1004.0	874.6	780.5	735.4	747.1	757.0	745.2	743.2
65°	7336.2	4637.8	1382.5	921.7	839.3	760.9	715.8	745.2	766.8	782.4	782.4
67.5°	5504.6	3320.0	1127.6	835.4	786.4	721.7	690.3	717.7	733.4	743.2	749.1
70°	3355.3	1953.2	888.3	735.4	709.9	662.8	639.3	611.8	590.3	586.3	588.3
72.5°	1641.4	1117.8	721.7	625.6	606.0	562.8	509.9	498.1	488.3	482.4	480.4
75°	904.0	778.5	596.2	519.7	484.4	431.4	419.7	400.0	396.1	388.3	390.2
77.5°	639.3	613.8	492.2	421.6	368.7	341.2	347.1	333.4	333.4	327.5	325.5
80°	480.4	482.4	378.5	307.9	272.6	262.8	268.7	268.7	264.7	262.8	260.8
82.5°	304.0	343.2	254.9	198.1	194.1	196.1	194.1	192.2	196.1	190.2	188.3
85°	209.8	247.1	154.9	117.7	117.7	115.7	119.6	117.7	121.6	115.7	115.7
87.5°	47.1	109.8	56.9	35.3	37.3	35.3	37.3	39.2	43.1	45.1	45.1
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)