

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: P639688

Luminaire Tested: GWS-SA5C-735-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639688
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-SA5C-735-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22555.9 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

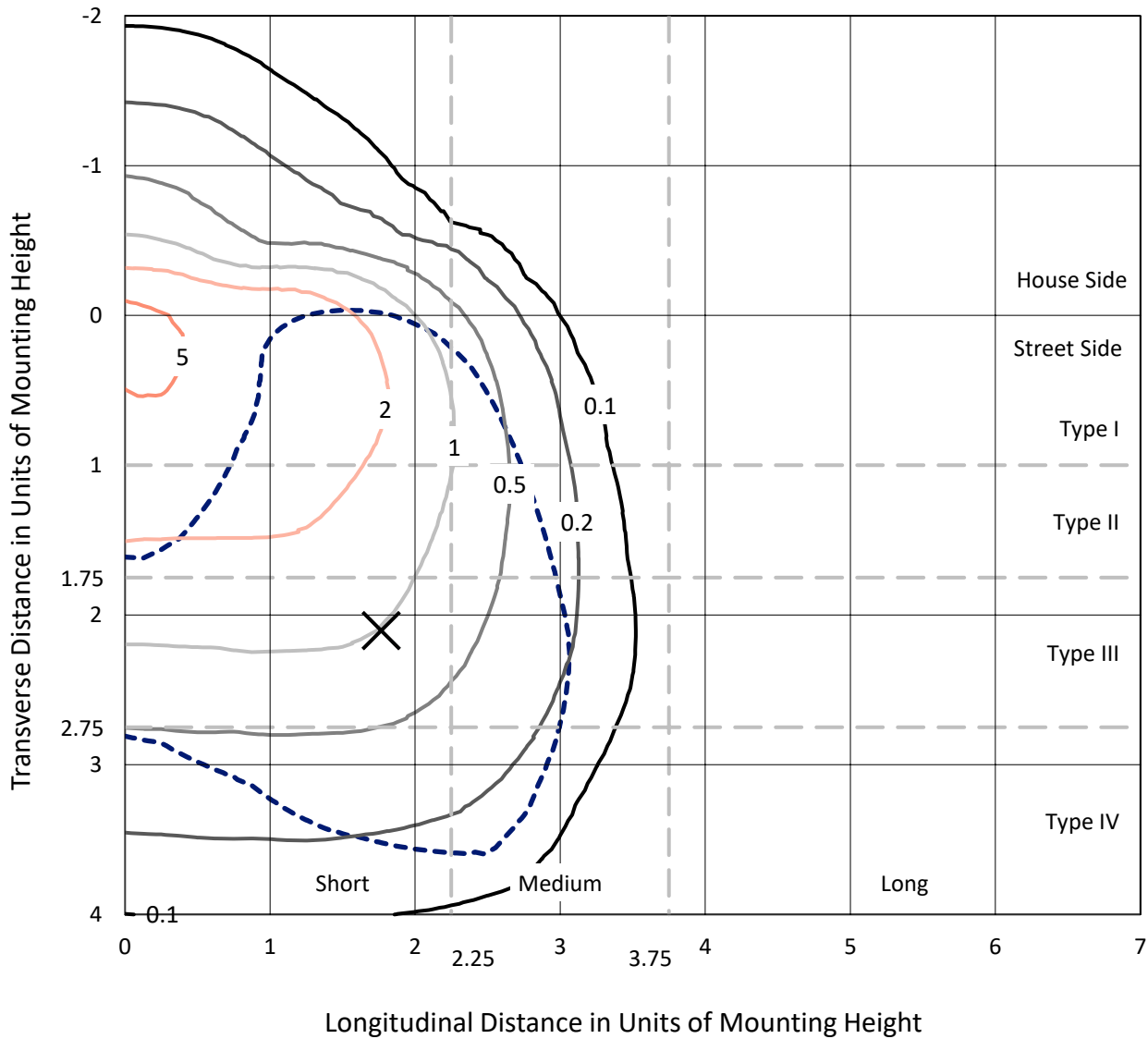
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

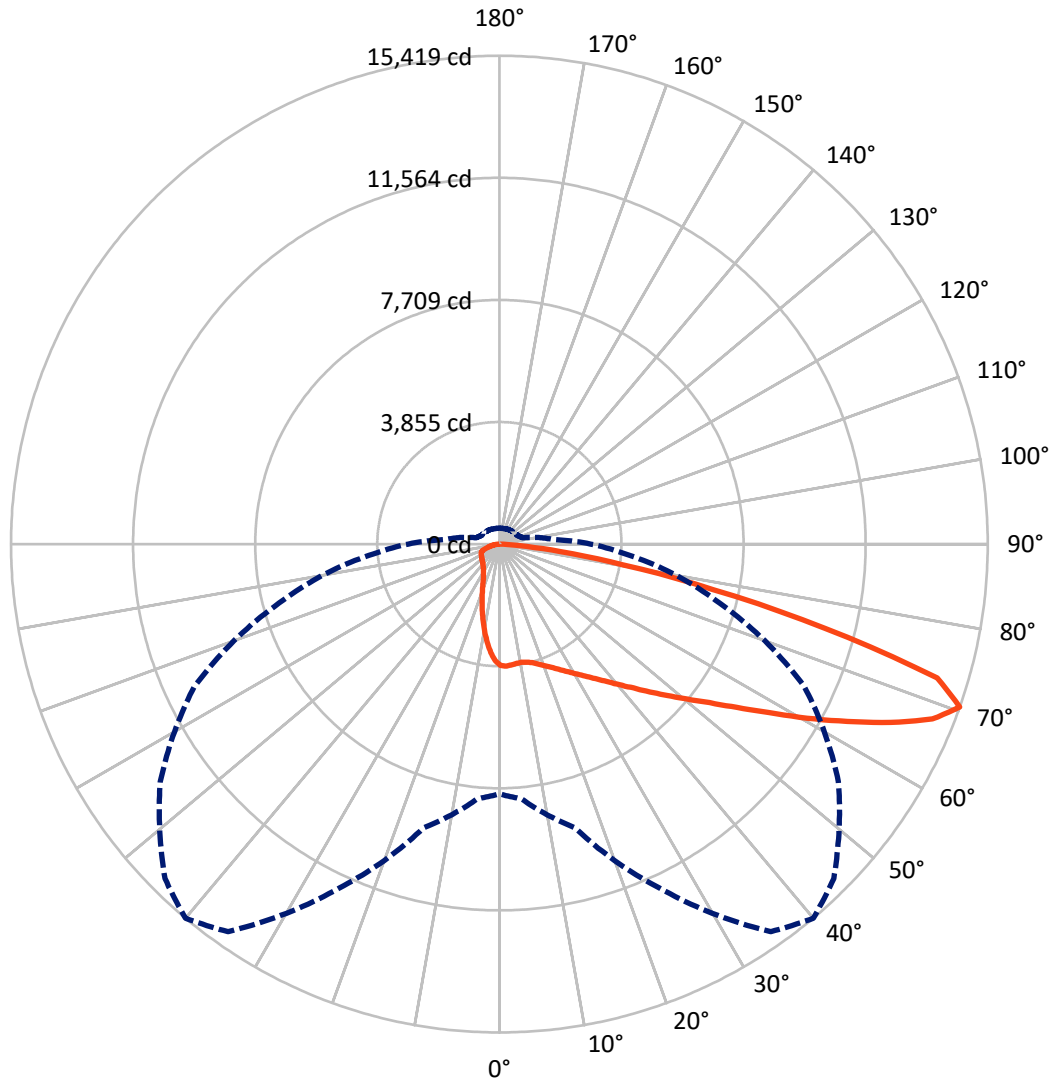
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	3474.2	0.0	3474.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	19081.7	0.0	19081.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	22555.9	0.0	22555.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.4	1.5
10°-20°	882.0	3.9
20°-30°	1384.9	6.1
30°-40°	2082.2	9.2
40°-50°	3213.9	14.2
50°-60°	4773.0	21.2
60°-70°	6016.3	26.7
70°-80°	3479.2	15.4
80°-90°	386.1	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°	22555.9	100.0
0°-180°	22555.9	100.0

Coefficient of Utilization



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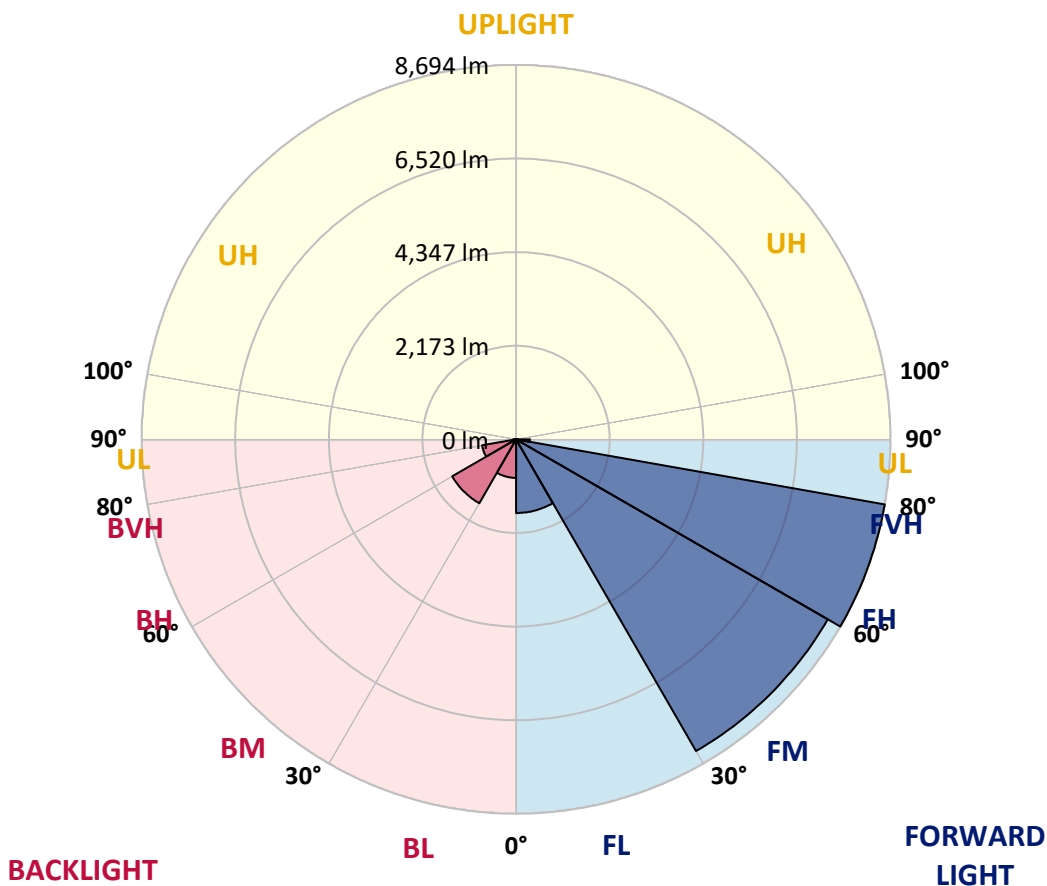
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1709.9	7.6			
FM (30°-60°)	8356.7	37.0			
FH (60°-80°)	8693.6	38.5			G4/12000
FVH (80°-90°)	321.6	1.4			G3/500
BL (0°-30°)	895.3	4.0	B2/1000		
BM (30°-60°)	1712.5	7.6	B2/2500		
BH (60°-80°)	801.9	3.6	B2/1000		G2/1000
BVH (80°-90°)	64.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3
2.5°	3853.8	3860.6	3865.6	3872.3	3869.0	3858.9	3867.3	3867.3	3848.8	3828.6	3810.0
5°	3858.9	3867.3	3865.6	3863.9	3850.5	3833.6	3833.6	3823.5	3791.5	3759.5	3729.2
7.5°	3848.8	3847.1	3845.4	3840.4	3825.2	3806.7	3803.3	3783.1	3741.0	3697.2	3653.5
10°	3803.3	3801.6	3806.7	3818.5	3815.1	3798.3	3798.3	3779.7	3730.9	3677.0	3619.8
12.5°	3766.3	3766.3	3786.5	3818.5	3830.3	3823.5	3825.2	3811.7	3756.2	3692.2	3624.8
15°	3771.3	3773.0	3816.8	3869.0	3890.9	3885.8	3887.5	3872.3	3810.0	3746.1	3655.2
17.5°	3805.0	3813.4	3889.2	3961.6	3990.2	3983.5	3971.7	3946.4	3875.7	3803.3	3692.2
20°	3875.7	3889.2	3986.8	4077.7	4111.4	4096.3	4076.1	4025.6	3948.1	3869.0	3732.6
22.5°	4015.4	4023.9	4131.6	4220.9	4247.8	4229.3	4188.9	4116.5	4027.2	3944.7	3781.4
25°	4212.4	4222.5	4325.2	4407.7	4401.0	4379.1	4323.6	4234.3	4128.3	4040.7	3852.1
27.5°	4446.5	4463.3	4564.3	4630.0	4586.2	4554.2	4491.9	4384.2	4264.6	4185.5	3959.9
30°	4702.4	4709.1	4795.0	4860.6	4793.3	4749.5	4673.7	4557.6	4449.8	4390.9	4121.5
32.5°	4949.9	4956.6	5030.7	5067.7	4997.0	4965.0	4899.4	4776.4	4700.7	4668.7	4362.3
35°	5210.8	5209.1	5269.8	5301.7	5229.3	5215.9	5148.5	5054.2	5040.8	5082.9	4714.2
37.5°	5471.8	5456.6	5488.6	5530.7	5490.3	5503.8	5460.0	5428.0	5480.2	5589.6	5182.2
40°	5680.6	5680.6	5714.2	5766.4	5779.9	5838.8	5813.6	5855.7	6024.0	6285.0	5761.4
42.5°	5865.8	5867.4	5938.2	6019.0	6116.6	6207.5	6227.7	6337.2	6685.7	7094.8	6488.7
45°	6059.4	6061.1	6157.0	6274.9	6482.0	6655.4	6695.8	6941.6	7439.9	7938.3	7278.3
47.5°	6283.3	6264.8	6397.8	6594.8	6889.4	7138.6	7243.0	7591.5	8221.1	8834.0	8022.5
50°	6535.8	6497.1	6645.3	6985.4	7349.0	7690.8	7865.9	8264.9	9059.6	9660.6	8722.9
52.5°	6820.4	6798.5	6953.4	7367.5	7923.1	8317.1	8554.5	9078.1	9874.5	10483.9	9278.5
55°	7173.9	7121.7	7345.7	7872.6	8596.6	9098.3	9379.5	9882.9	10765.1	11231.5	9702.7
57.5°	7561.2	7503.9	7803.6	8504.0	9472.1	10022.6	10374.5	10788.7	11603.6	11803.9	9951.9
60°	7978.7	7960.2	8315.4	9244.8	10515.9	11155.7	11409.9	11785.4	12332.6	12135.6	9889.6
62.5°	8360.9	8354.2	8871.0	10047.9	11622.1	12325.8	12527.9	12627.2	12857.9	12113.7	9394.6
65°	8763.3	8820.5	9519.2	10978.9	12889.8	13580.1	13664.3	13411.8	13034.6	11539.6	8381.1
67.5°	8813.8	8924.9	9926.7	11851.0	14092.0	14743.5	14676.2	13709.8	12512.7	9941.8	6569.5
70°	7882.7	8076.4	9276.8	11984.1	14938.8	15418.7	14932.1	13068.3	10618.6	7202.6	4131.6
72.5°	6586.3	6753.0	7813.7	10219.6	13846.1	14457.3	13799.0	11061.4	7503.9	4131.6	2104.5
75°	5126.6	5320.3	6298.4	8123.5	10366.1	10610.2	10280.2	7714.4	4124.9	1703.8	956.3
77.5°	3128.2	3267.9	4028.9	5503.8	7253.1	6887.7	5837.1	4325.2	1809.9	816.6	591.0
80°	1383.9	1469.8	1985.0	2956.4	4190.5	3961.6	3123.1	1846.9	990.0	518.6	412.5
82.5°	742.5	798.0	978.2	1170.1	1840.2	1924.4	1560.7	1064.1	532.0	296.3	235.7
85°	326.6	358.6	444.5	424.3	604.4	594.3	599.4	730.7	254.2	136.4	153.2
87.5°	0.0	0.0	0.0	0.0	1.7	1.7	18.5	97.7	25.3	40.4	35.4
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°	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3
2.5°	3789.8	3759.5	3751.1	3741.0	3722.5	3690.5	3666.9	3640.0	3628.2	3614.7	3616.4
5°	3695.6	3658.5	3623.2	3577.7	3520.5	3456.5	3412.7	3362.2	3335.3	3310.0	3316.7
7.5°	3614.7	3557.5	3485.1	3389.1	3286.4	3172.0	3079.4	3007.0	2958.1	2924.5	2941.3
10°	3564.2	3496.9	3370.6	3214.0	3040.6	2865.5	2732.5	2607.9	2530.5	2469.9	2466.5
12.5°	3554.1	3466.6	3283.1	3055.8	2804.9	2570.9	2375.6	2207.2	2104.5	2028.8	2057.4
15°	3564.2	3453.1	3207.3	2909.3	2592.8	2276.3	2033.8	1840.2	1717.3	1648.3	1643.2
17.5°	3576.0	3439.6	3121.4	2751.0	2370.5	2008.6	1727.4	1522.0	1395.7	1326.7	1328.4
20°	3586.1	3419.4	3020.4	2577.6	2144.9	1759.4	1468.1	1272.8	1160.0	1109.5	1117.9
22.5°	3603.0	3399.2	2912.7	2392.4	1914.3	1518.6	1262.7	1104.5	1037.1	1003.4	1005.1
25°	3634.9	3387.5	2801.6	2190.4	1687.0	1326.7	1121.3	1015.2	973.1	952.9	951.2
27.5°	3700.6	3397.6	2685.4	1995.1	1481.6	1180.2	1030.4	961.4	932.7	919.3	917.6
30°	3810.0	3438.0	2584.4	1796.4	1304.8	1065.7	968.1	926.0	909.2	897.4	895.7
32.5°	3976.7	3513.7	2474.9	1611.2	1161.7	981.6	919.3	897.4	885.6	878.9	878.9
35°	4229.3	3651.8	2367.2	1449.6	1050.6	915.9	880.5	872.1	862.0	858.6	862.0
37.5°	4592.9	3872.3	2269.5	1308.2	971.5	865.4	838.4	841.8	833.4	838.4	843.5
40°	5054.2	4167.0	2187.0	1192.0	912.5	828.3	801.4	813.2	808.1	813.2	821.6
42.5°	5638.5	4532.3	2124.7	1101.1	870.4	798.0	772.8	784.6	781.2	787.9	796.4
45°	6290.0	5013.8	2096.1	1037.1	840.1	776.2	749.2	757.6	754.3	759.3	767.7
47.5°	6914.7	5451.6	2121.4	1000.1	814.9	757.6	729.0	732.4	730.7	729.0	734.1
50°	7453.4	5800.1	2193.8	988.3	798.0	739.1	712.2	713.9	708.8	698.7	702.1
52.5°	7892.8	6079.6	2237.5	988.3	789.6	718.9	693.7	695.3	685.2	671.8	673.5
55°	8182.4	6192.4	2202.2	986.6	786.3	702.1	675.1	676.8	666.7	649.9	651.6
57.5°	8264.9	6082.9	2054.0	968.1	782.9	688.6	656.6	660.0	653.2	634.7	634.7
60°	8034.3	5682.2	1783.0	926.0	774.5	680.2	643.1	648.2	644.8	626.3	626.3
62.5°	7429.8	4970.1	1459.7	862.0	750.9	670.1	631.4	641.5	649.9	639.8	638.1
65°	6298.4	3981.8	1187.0	791.3	720.6	653.2	614.5	639.8	658.3	671.8	671.8
67.5°	4725.9	2850.4	968.1	717.2	675.1	619.6	592.6	616.2	629.7	638.1	643.1
70°	2880.7	1676.9	762.7	631.4	609.5	569.1	548.9	525.3	506.8	503.4	505.1
72.5°	1409.2	959.7	619.6	537.1	520.2	483.2	437.7	427.6	419.2	414.2	412.5
75°	776.2	668.4	511.8	446.2	415.9	370.4	360.3	343.5	340.1	333.4	335.0
77.5°	548.9	527.0	422.6	362.0	316.5	293.0	298.0	286.2	286.2	281.2	279.5
80°	412.5	414.2	324.9	264.3	234.0	225.6	230.7	230.7	227.3	225.6	223.9
82.5°	261.0	294.6	218.9	170.0	166.7	168.4	166.7	165.0	168.4	163.3	161.6
85°	180.1	212.1	133.0	101.0	101.0	99.3	102.7	101.0	104.4	99.3	99.3
87.5°	40.4	94.3	48.8	30.3	32.0	30.3	32.0	33.7	37.0	38.7	38.7
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)