

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: P636223

Luminaire Tested: GWS-SA3F-735-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636223
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-SA3F-735-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23160.3 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

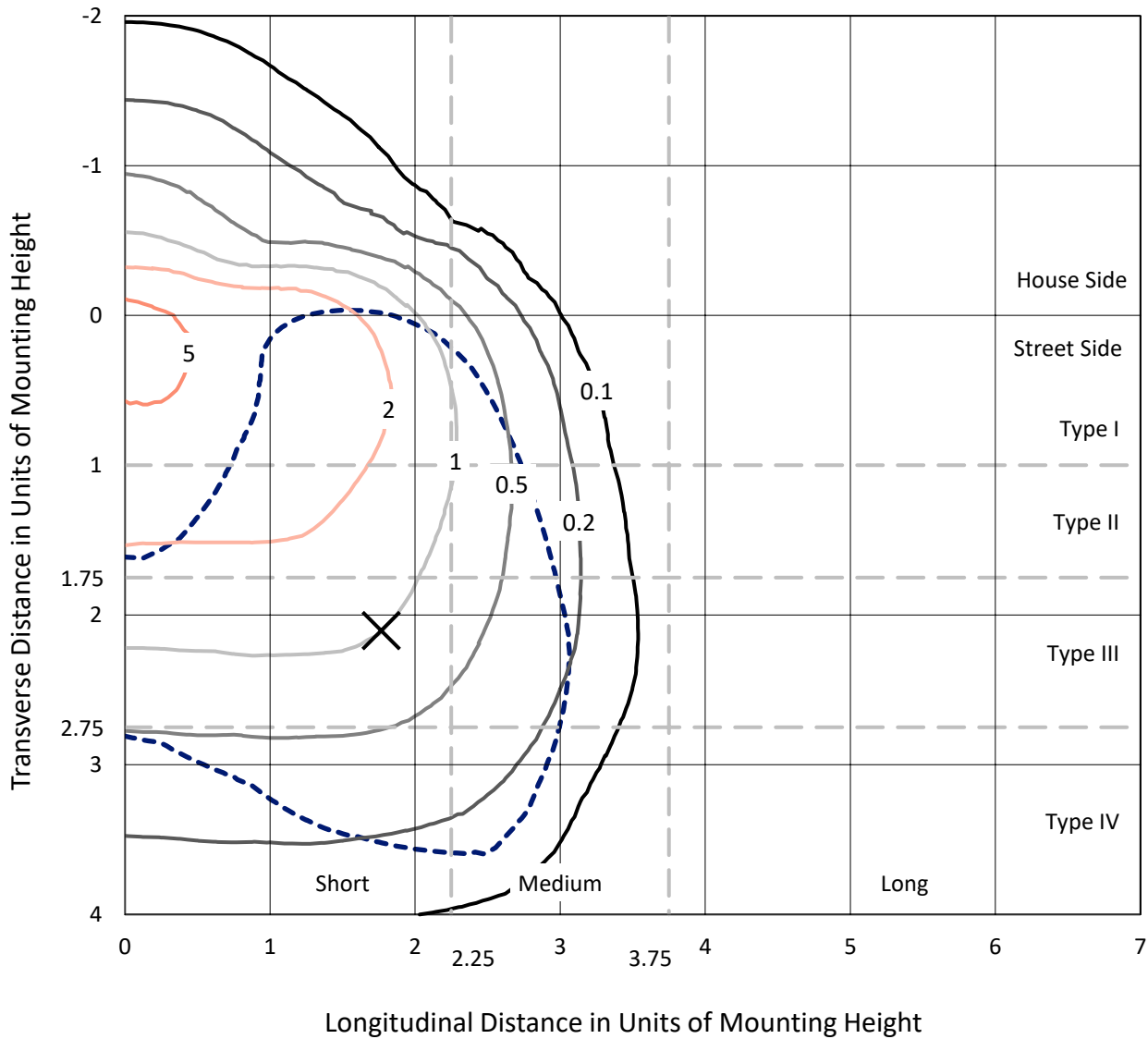
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

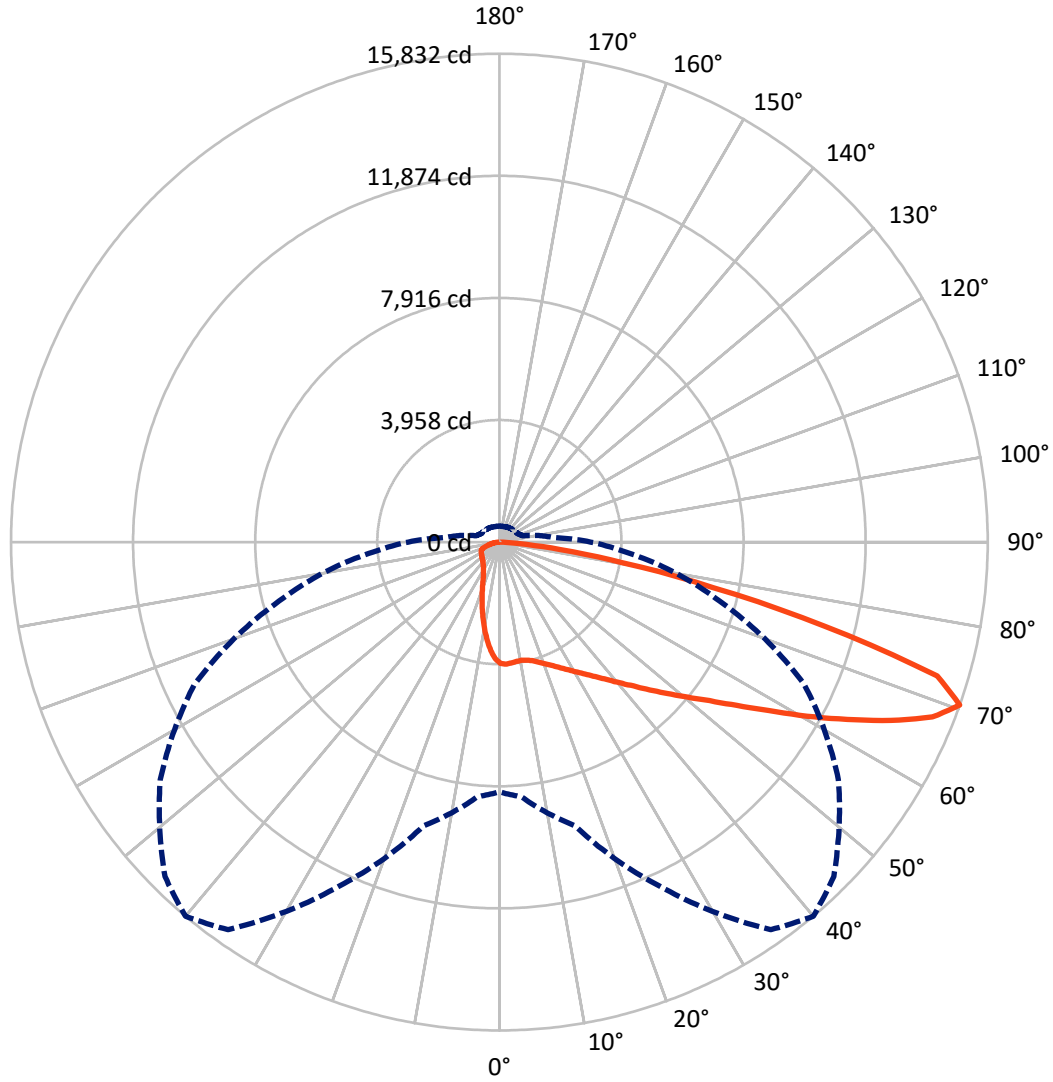
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	3567.3	0.0	3567.3
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	19593.0	0.0	19593.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	23160.3	0.0	23160.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.4	1.5
10°-20°	905.6	3.9
20°-30°	1422.0	6.1
30°-40°	2138.0	9.2
40°-50°	3300.1	14.2
50°-60°	4900.9	21.2
60°-70°	6177.5	26.7
70°-80°	3572.4	15.4
80°-90°	396.5	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°	23160.3	100.0
0°-180°	23160.3	100.0

Coefficient of Utilization



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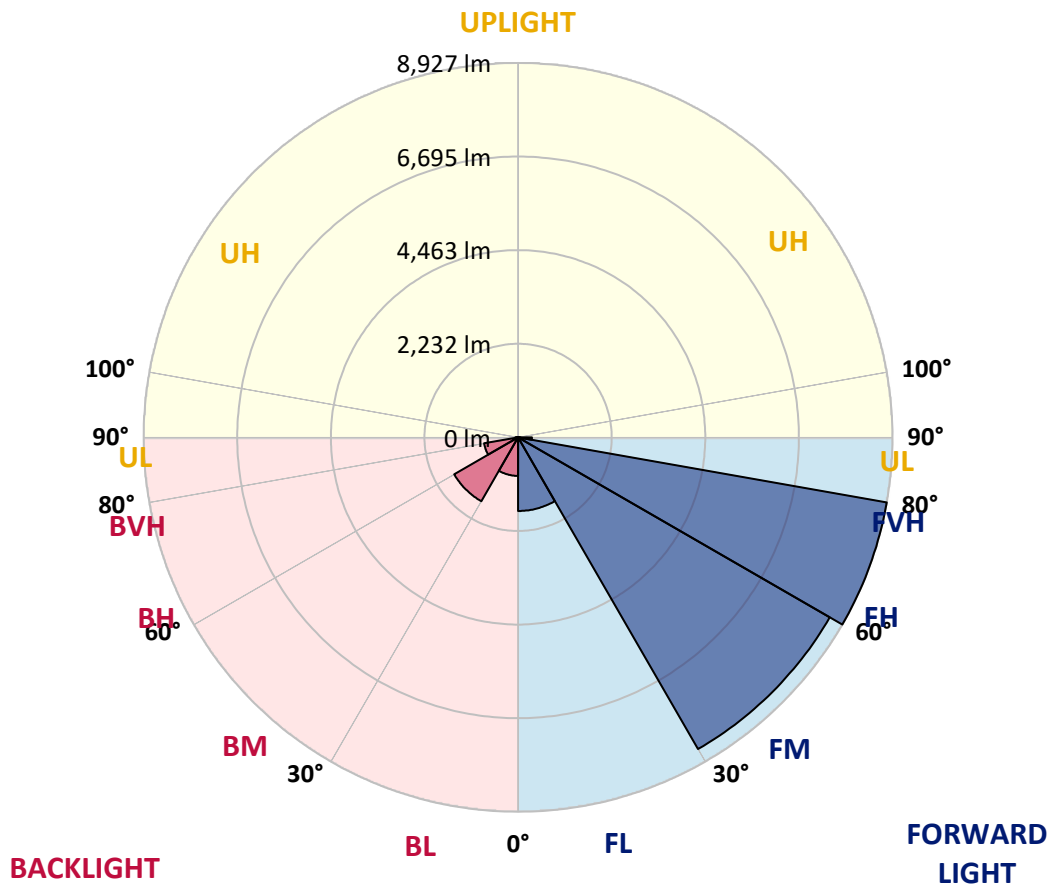
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1755.7	7.6			
FM (30°-60°)	8580.6	37.0			
FH (60°-80°)	8926.5	38.5			G4/12000
FVH (80°-90°)	330.2	1.4			G3/500
BL (0°-30°)	919.3	4.0	B2/1000		
BM (30°-60°)	1758.3	7.6	B2/2500		
BH (60°-80°)	823.3	3.6	B2/1000		G2/1000
BVH (80°-90°)	66.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9
2.5°	3957.1	3964.0	3969.2	3976.1	3972.6	3962.3	3970.9	3970.9	3951.9	3931.2	3912.1
5°	3962.3	3970.9	3969.2	3967.5	3953.6	3936.3	3936.3	3926.0	3893.1	3860.3	3829.2
7.5°	3951.9	3950.2	3948.4	3943.3	3927.7	3908.7	3905.2	3884.5	3841.3	3796.3	3751.4
10°	3905.2	3903.5	3908.7	3920.8	3917.3	3900.0	3900.0	3881.0	3830.9	3775.6	3716.8
12.5°	3867.2	3867.2	3887.9	3920.8	3932.9	3926.0	3927.7	3913.9	3856.8	3791.1	3722.0
15°	3872.4	3874.1	3919.1	3972.6	3995.1	3989.9	3991.7	3976.1	3912.1	3846.4	3753.1
17.5°	3907.0	3915.6	3993.4	4067.7	4097.1	4090.2	4078.1	4052.2	3979.6	3905.2	3791.1
20°	3979.6	3993.4	4093.7	4187.0	4221.6	4206.0	4185.3	4133.4	4053.9	3972.6	3832.6
22.5°	4123.0	4131.7	4242.3	4334.0	4361.6	4342.6	4301.1	4226.8	4135.1	4050.4	3882.8
25°	4325.3	4335.7	4441.1	4525.8	4518.9	4496.5	4439.4	4347.8	4238.9	4149.0	3955.4
27.5°	4565.6	4582.9	4686.6	4754.0	4709.1	4676.2	4612.3	4501.6	4378.9	4297.6	4066.0
30°	4828.4	4835.3	4923.5	4990.9	4921.7	4876.8	4799.0	4679.7	4569.1	4508.6	4232.0
32.5°	5082.5	5089.4	5165.5	5203.5	5130.9	5098.1	5030.6	4904.4	4826.6	4793.8	4479.2
35°	5350.5	5348.7	5411.0	5443.8	5369.5	5355.6	5286.5	5189.7	5175.8	5219.1	4840.5
37.5°	5618.4	5602.8	5635.7	5678.9	5637.4	5651.3	5606.3	5573.5	5627.1	5739.4	5321.1
40°	5832.8	5832.8	5867.3	5920.9	5934.8	5995.3	5969.3	6012.6	6185.4	6453.4	5915.7
42.5°	6022.9	6024.7	6097.3	6180.2	6280.5	6373.9	6394.6	6507.0	6864.8	7284.9	6662.6
45°	6221.7	6223.5	6322.0	6443.0	6655.7	6833.7	6875.2	7127.6	7639.3	8151.0	7473.3
47.5°	6451.7	6432.6	6569.2	6771.5	7074.0	7329.9	7437.0	7794.9	8441.4	9070.7	8237.4
50°	6711.0	6671.2	6823.3	7172.5	7546.0	7896.9	8076.7	8486.4	9302.4	9919.5	8956.6
52.5°	7003.1	6980.7	7139.7	7565.0	8135.5	8540.0	8783.7	9321.4	10139.1	10764.9	9527.1
55°	7366.2	7312.6	7542.5	8083.6	8826.9	9342.1	9630.8	10147.7	11053.6	11532.4	9962.7
57.5°	7763.8	7705.0	8012.7	8731.9	9725.9	10291.2	10652.5	11077.8	11914.5	12120.2	10218.6
60°	8192.5	8173.5	8538.2	9492.5	10797.7	11454.6	11715.7	12101.2	12663.0	12460.8	10154.6
62.5°	8584.9	8578.0	9108.7	10317.1	11933.5	12656.1	12863.6	12965.6	13202.4	12438.3	9646.4
65°	8998.1	9056.9	9774.3	11273.1	13235.2	13944.0	14030.5	13771.1	13383.9	11848.8	8605.7
67.5°	9050.0	9164.1	10192.7	12168.6	14469.6	15138.6	15069.4	14077.1	12848.0	10208.2	6745.5
70°	8094.0	8292.8	9525.4	12305.2	15339.1	15831.8	15332.2	13418.5	10903.2	7395.6	4242.3
72.5°	6762.8	6934.0	8023.1	10493.5	14217.2	14844.7	14168.8	11357.8	7705.0	4242.3	2160.9
75°	5264.0	5462.8	6467.2	8341.2	10643.9	10894.5	10555.7	7921.1	4235.4	1749.5	981.9
77.5°	3212.0	3355.5	4136.9	5651.3	7447.4	7072.3	5993.5	4441.1	1858.4	838.4	606.8
80°	1421.0	1509.2	2038.2	3035.7	4302.8	4067.7	3206.8	1896.4	1016.5	532.5	423.5
82.5°	762.4	819.4	1004.4	1201.5	1889.5	1976.0	1602.5	1092.6	546.3	304.3	242.0
85°	335.4	368.2	456.4	435.6	620.6	610.2	615.4	750.3	261.0	140.0	157.3
87.5°	0.0	0.0	0.0	0.0	1.7	1.7	19.0	100.3	25.9	41.5	36.3
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°	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9	3932.9
2.5°	3891.4	3860.3	3851.6	3841.3	3822.2	3789.4	3765.2	3737.5	3725.4	3711.6	3713.3
5°	3794.6	3756.6	3720.2	3673.6	3614.8	3549.1	3504.2	3452.3	3424.6	3398.7	3405.6
7.5°	3711.6	3652.8	3578.5	3480.0	3374.5	3256.9	3161.9	3087.5	3037.4	3002.8	3020.1
10°	3659.7	3590.6	3460.9	3300.2	3122.1	2942.3	2805.7	2677.8	2598.3	2536.1	2532.6
12.5°	3649.4	3559.5	3371.0	3137.7	2880.1	2639.8	2439.3	2266.4	2160.9	2083.1	2112.5
15°	3659.7	3545.6	3293.3	2987.3	2662.3	2337.3	2088.3	1889.5	1763.3	1692.4	1687.3
17.5°	3671.8	3531.8	3205.1	2824.8	2434.1	2062.4	1773.7	1562.8	1433.1	1362.2	1364.0
20°	3682.2	3511.1	3101.4	2646.7	2202.4	1806.5	1507.5	1306.9	1191.1	1139.2	1147.9
22.5°	3699.5	3490.3	2990.7	2456.5	1965.6	1559.3	1296.6	1134.1	1064.9	1030.3	1032.1
25°	3732.4	3478.2	2876.6	2249.1	1732.2	1362.2	1151.3	1042.4	999.2	978.5	976.7
27.5°	3799.8	3488.6	2757.3	2048.6	1521.3	1211.8	1058.0	987.1	957.7	943.9	942.2
30°	3912.1	3530.1	2653.6	1844.6	1339.8	1094.3	994.0	950.8	933.5	921.4	919.7
32.5°	4083.3	3607.9	2541.2	1654.4	1192.8	1007.9	943.9	921.4	909.3	902.4	902.4
35°	4342.6	3749.6	2430.6	1488.4	1078.7	940.4	904.1	895.5	885.1	881.7	885.1
37.5°	4716.0	3976.1	2330.3	1343.2	997.5	888.6	860.9	864.4	855.7	860.9	866.1
40°	5189.7	4278.6	2245.6	1223.9	937.0	850.5	822.9	835.0	829.8	835.0	843.6
42.5°	5789.6	4653.8	2181.7	1130.6	893.8	819.4	793.5	805.6	802.1	809.1	817.7
45°	6458.6	5148.2	2152.3	1064.9	862.6	796.9	769.3	777.9	774.5	779.7	788.3
47.5°	7099.9	5597.7	2178.2	1026.9	836.7	777.9	748.5	752.0	750.3	748.5	753.7
50°	7653.1	5955.5	2252.5	1014.8	819.4	758.9	731.3	733.0	727.8	717.4	720.9
52.5°	8104.3	6242.5	2297.5	1014.8	810.8	738.2	712.2	714.0	703.6	689.8	691.5
55°	8401.7	6358.3	2261.2	1013.0	807.3	720.9	693.2	695.0	684.6	667.3	669.0
57.5°	8486.4	6245.9	2109.1	994.0	803.9	707.1	674.2	677.7	670.8	651.7	651.7
60°	8249.5	5834.5	1830.7	950.8	795.2	698.4	660.4	665.6	662.1	643.1	643.1
62.5°	7628.9	5103.2	1498.8	885.1	771.0	688.0	648.3	658.7	667.3	656.9	655.2
65°	6467.2	4088.5	1218.8	812.5	739.9	670.8	631.0	656.9	675.9	689.8	689.8
67.5°	4852.6	2926.8	994.0	736.4	693.2	636.2	608.5	632.7	646.5	655.2	660.4
70°	2957.9	1721.8	783.1	648.3	625.8	584.3	563.6	539.4	520.4	516.9	518.6
72.5°	1447.0	985.4	636.2	551.5	534.2	496.1	449.5	439.1	430.5	425.3	423.5
75°	796.9	686.3	525.5	458.1	427.0	380.3	370.0	352.7	349.2	342.3	344.0
77.5°	563.6	541.1	433.9	371.7	325.0	300.8	306.0	293.9	293.9	288.7	287.0
80°	423.5	425.3	333.6	271.4	240.3	231.7	236.8	236.8	233.4	231.7	229.9
82.5°	268.0	302.5	224.7	174.6	171.1	172.9	171.1	169.4	172.9	167.7	166.0
85°	185.0	217.8	136.6	103.7	103.7	102.0	105.5	103.7	107.2	102.0	102.0
87.5°	41.5	96.8	50.1	31.1	32.8	31.1	32.8	34.6	38.0	39.8	39.8
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)