

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: P635783

Luminaire Tested: GWS-SA3E-740-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635783  
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-SA3E-740-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

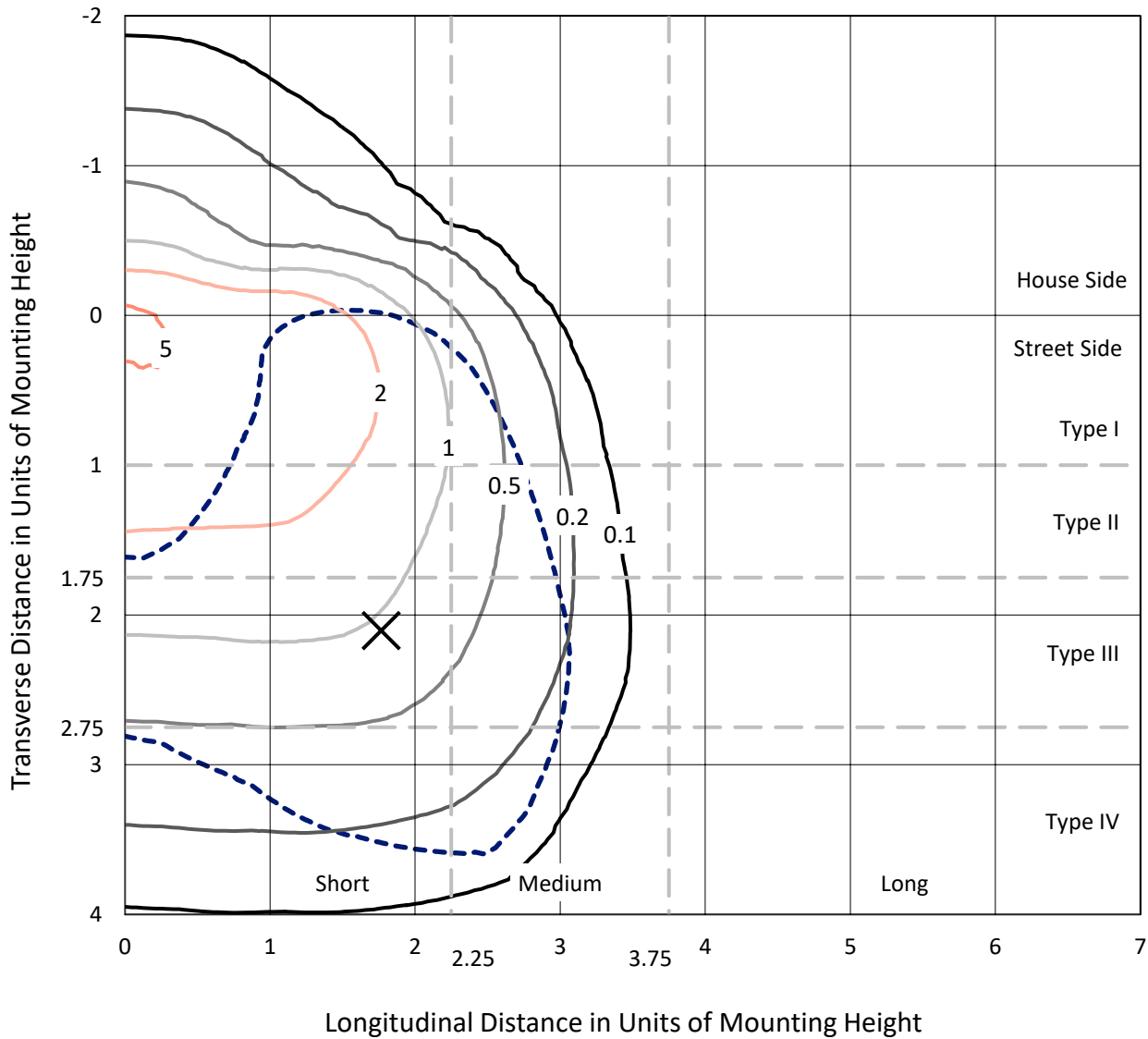
Lumens per Lamp: N/A  
Luminaire Lumens: 21120.5 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

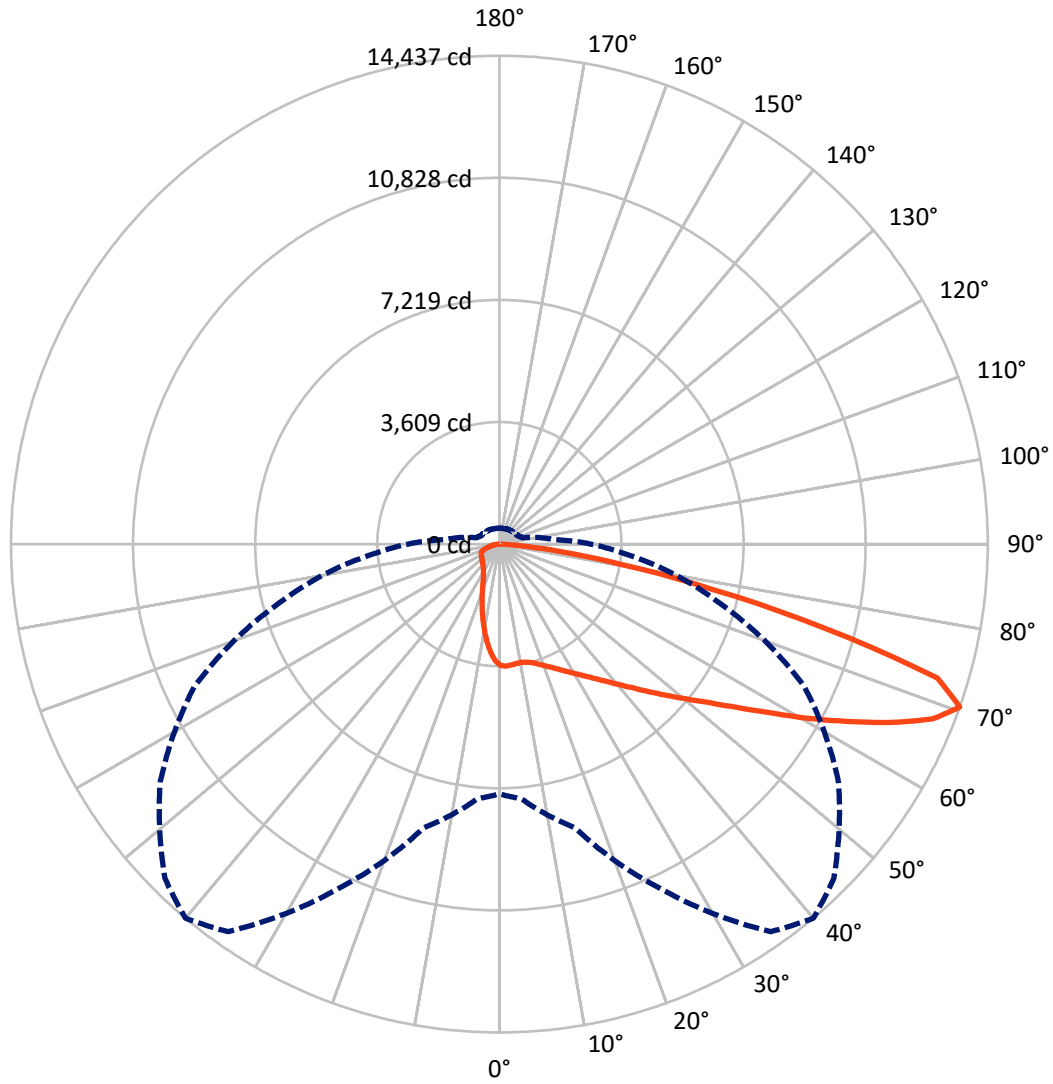
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	3253.1	0.0	3253.1
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	17867.4	0.0	17867.4
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	21120.5	0.0	21120.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.8	1.5
10°-20°	825.9	3.9
20°-30°	1296.8	6.1
30°-40°	1949.7	9.2
40°-50°	3009.4	14.2
50°-60°	4469.2	21.2
60°-70°	5633.4	26.7
70°-80°	3257.7	15.4
80°-90°	361.5	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°	21120.5	100.0
0°-180°	21120.5	100.0

**Coefficient of Utilization**



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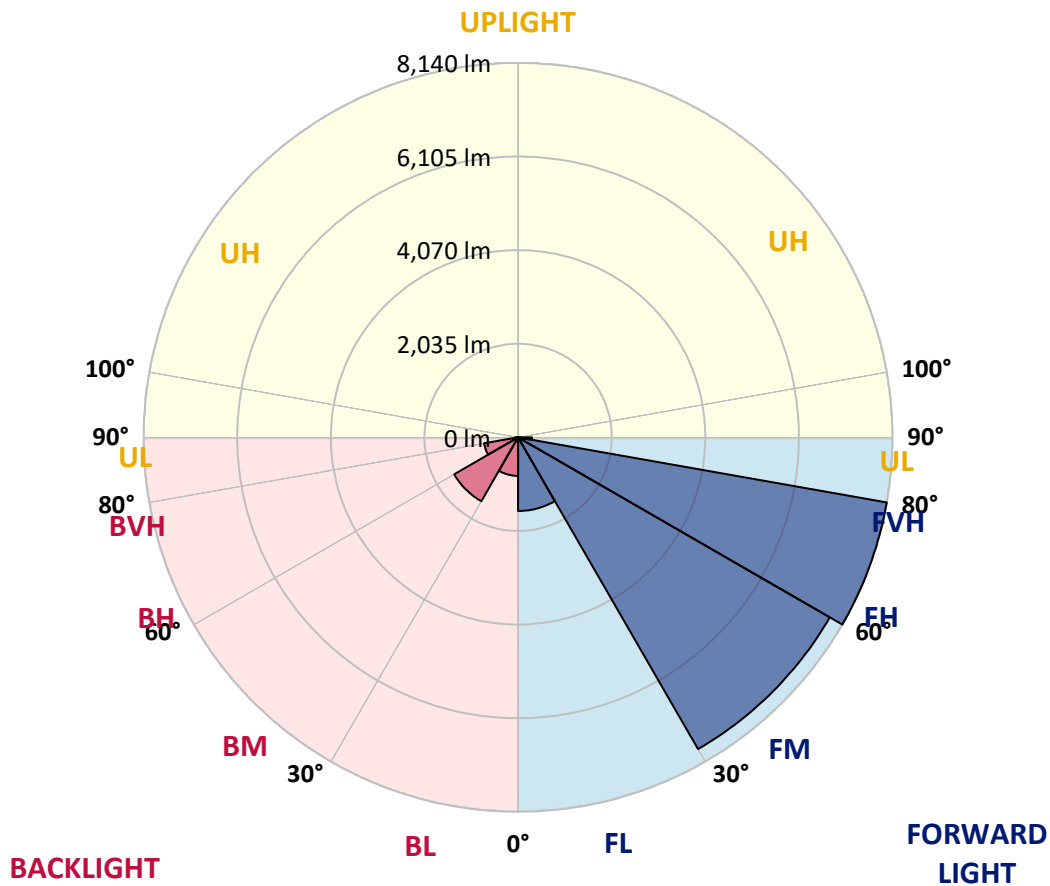
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1601.1	7.6			
FM (30°-60°)	7824.9	37.0			
FH (60°-80°)	8140.3	38.5			G4/12000
FVH (80°-90°)	301.1	1.4			G3/500
BL (0°-30°)	838.4	4.0	B2/1000		
BM (30°-60°)	1603.5	7.6	B2/2500		
BH (60°-80°)	750.8	3.6	B2/1000		G2/1000
BVH (80°-90°)	60.4	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°	3586.5	3586.5	3586.5	3586.5	3586.5	3586.5	3586.5	3586.5	3586.5	3586.5	3586.5
2.5°	3608.6	3614.9	3619.6	3625.9	3622.8	3613.3	3621.2	3621.2	3603.8	3584.9	3567.6
5°	3613.3	3621.2	3619.6	3618.0	3605.4	3589.7	3589.7	3580.2	3550.2	3520.3	3491.9
7.5°	3603.8	3602.3	3600.7	3596.0	3581.8	3564.4	3561.3	3542.4	3502.9	3462.0	3421.0
10°	3561.3	3559.7	3564.4	3575.5	3572.3	3556.5	3556.5	3539.2	3493.5	3443.0	3389.4
12.5°	3526.6	3526.6	3545.5	3575.5	3586.5	3580.2	3581.8	3569.2	3517.1	3457.2	3394.2
15°	3531.3	3532.9	3573.9	3622.8	3643.3	3638.5	3640.1	3625.9	3567.6	3507.7	3422.5
17.5°	3562.9	3570.7	3641.7	3709.5	3736.3	3730.0	3718.9	3695.3	3629.1	3561.3	3457.2
20°	3629.1	3641.7	3733.1	3818.2	3849.8	3835.6	3816.7	3769.4	3696.9	3622.8	3495.1
22.5°	3759.9	3767.8	3868.7	3952.2	3977.5	3960.1	3922.3	3854.5	3771.0	3693.7	3540.8
25°	3944.4	3953.8	4050.0	4127.2	4120.9	4100.4	4048.4	3964.9	3865.5	3783.6	3607.0
27.5°	4163.5	4179.3	4273.9	4335.3	4294.3	4264.4	4206.1	4105.2	3993.2	3919.1	3707.9
30°	4403.1	4409.4	4489.8	4551.3	4488.3	4447.3	4376.3	4267.5	4166.6	4111.5	3859.2
32.5°	4634.9	4641.2	4710.5	4745.2	4679.0	4649.1	4587.6	4472.5	4401.5	4371.6	4084.7
35°	4879.2	4877.6	4934.4	4964.4	4896.6	4884.0	4820.9	4732.6	4720.0	4759.4	4414.2
37.5°	5123.6	5109.4	5139.3	5178.8	5140.9	5153.5	5112.5	5082.6	5131.5	5233.9	4852.4
40°	5319.1	5319.1	5350.6	5399.5	5412.1	5467.2	5443.6	5483.0	5640.7	5885.0	5394.7
42.5°	5492.5	5494.0	5560.3	5635.9	5727.4	5812.5	5831.4	5933.9	6260.2	6643.3	6075.8
45°	5673.8	5675.3	5765.2	5875.6	6069.5	6231.8	6269.7	6499.8	6966.5	7433.1	6815.1
47.5°	5883.4	5866.1	5990.6	6175.1	6451.0	6684.3	6782.0	7108.4	7698.0	8271.8	7512.0
50°	6119.9	6083.7	6222.4	6540.8	6881.4	7201.4	7365.3	7739.0	8483.1	9045.9	8167.8
52.5°	6386.3	6365.8	6510.9	6898.7	7418.9	7787.8	8010.1	8500.4	9246.1	9816.8	8688.0
55°	6717.4	6668.5	6878.2	7371.6	8049.5	8519.3	8782.6	9254.0	10080.0	10516.7	9085.3
57.5°	7080.0	7026.4	7307.0	7962.8	8869.3	9384.8	9714.3	10102.1	10865.1	11052.7	9318.6
60°	7471.0	7453.6	7786.3	8656.5	9846.7	10445.8	10683.8	11035.4	11547.8	11363.3	9260.3
62.5°	7828.8	7822.5	8306.5	9408.5	10882.5	11541.4	11730.6	11823.6	12039.6	11342.8	8796.8
65°	8205.6	8259.2	8913.4	10280.3	12069.6	12715.9	12794.8	12558.3	12205.1	10805.2	7847.7
67.5°	8252.9	8356.9	9295.0	11096.9	13195.2	13805.3	13742.2	12837.3	11716.4	9309.1	6151.4
70°	7381.1	7562.4	8686.4	11221.4	13988.2	14437.4	13981.8	12236.7	9942.9	6744.2	3868.7
72.5°	6167.2	6323.3	7316.5	9569.3	12965.0	13537.3	12920.9	10357.5	7026.4	3868.7	1970.6
75°	4800.4	4981.7	5897.6	7606.5	9706.4	9935.0	9626.0	7223.5	3862.4	1595.4	895.4
77.5°	2929.1	3060.0	3772.5	5153.5	6791.5	6449.4	5465.7	4050.0	1694.7	764.6	553.3
80°	1295.9	1376.3	1858.7	2768.3	3923.9	3709.5	2924.4	1729.4	927.0	485.6	386.2
82.5°	695.2	747.3	915.9	1095.7	1723.1	1801.9	1461.4	996.3	498.2	277.5	220.7
85°	305.8	335.8	416.2	397.3	566.0	556.5	561.2	684.2	238.0	127.7	143.5
87.5°	0.0	0.0	0.0	0.0	1.6	1.6	17.3	91.4	23.6	37.8	33.1
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°	3586.5	3586.5	3586.5	3586.5	3586.5	3586.5	3586.5	3586.5	3586.5	3586.5	3586.5
2.5°	3548.7	3520.3	3512.4	3502.9	3485.6	3455.7	3433.6	3408.4	3397.3	3384.7	3386.3
5°	3460.4	3425.7	3392.6	3350.0	3296.4	3236.5	3195.5	3148.2	3123.0	3099.4	3105.7
7.5°	3384.7	3331.1	3263.3	3173.5	3077.3	2970.1	2883.4	2815.6	2769.9	2738.4	2754.1
10°	3337.4	3274.4	3156.1	3009.5	2847.1	2683.2	2558.6	2442.0	2369.5	2312.7	2309.6
12.5°	3328.0	3246.0	3074.1	2861.3	2626.4	2407.3	2224.4	2066.8	1970.6	1899.7	1926.5
15°	3337.4	3233.4	3003.2	2724.2	2427.8	2131.4	1904.4	1723.1	1608.0	1543.4	1538.6
17.5°	3348.5	3220.8	2922.8	2576.0	2219.7	1880.7	1617.5	1425.1	1306.9	1242.3	1243.8
20°	3357.9	3201.8	2828.2	2413.6	2008.4	1647.4	1374.7	1191.8	1086.2	1038.9	1046.8
22.5°	3373.7	3182.9	2727.3	2240.2	1792.5	1422.0	1182.4	1034.2	971.1	939.6	941.2
25°	3403.6	3171.9	2623.3	2051.0	1579.6	1242.3	1049.9	950.6	911.2	892.3	890.7
27.5°	3465.1	3181.3	2514.5	1868.1	1387.3	1105.1	964.8	900.2	873.4	860.8	859.2
30°	3567.6	3219.2	2419.9	1682.1	1221.8	997.9	906.5	867.1	851.3	840.3	838.7
32.5°	3723.7	3290.1	2317.4	1508.7	1087.8	919.1	860.8	840.3	829.2	822.9	822.9
35°	3960.1	3419.4	2216.5	1357.4	983.7	857.6	824.5	816.6	807.2	804.0	807.2
37.5°	4300.7	3625.9	2125.1	1224.9	909.6	810.3	785.1	788.2	780.4	785.1	789.8
40°	4732.6	3901.8	2047.9	1116.2	854.5	775.6	750.4	761.4	756.7	761.4	769.3
42.5°	5279.6	4243.9	1989.5	1031.0	815.0	747.3	723.6	734.6	731.5	737.8	745.7
45°	5889.7	4694.8	1962.7	971.1	786.7	726.8	701.5	709.4	706.3	711.0	718.9
47.5°	6474.6	5104.7	1986.4	936.4	763.0	709.4	682.6	685.8	684.2	682.6	687.3
50°	6979.1	5431.0	2054.2	925.4	747.3	692.1	666.9	668.4	663.7	654.2	657.4
52.5°	7390.6	5692.7	2095.1	925.4	739.4	673.2	649.5	651.1	641.6	629.0	630.6
55°	7661.7	5798.3	2062.0	923.8	736.2	657.4	632.2	633.7	624.3	608.5	610.1
57.5°	7739.0	5695.8	1923.3	906.5	733.1	644.8	614.8	618.0	611.7	594.3	594.3
60°	7523.0	5320.6	1669.5	867.1	725.2	636.9	602.2	606.9	603.8	586.5	586.5
62.5°	6957.0	4653.8	1366.8	807.2	703.1	627.4	591.2	600.6	608.5	599.1	597.5
65°	5897.6	3728.4	1111.4	740.9	674.7	611.7	575.4	599.1	616.4	629.0	629.0
67.5°	4425.2	2669.0	906.5	671.6	632.2	580.1	554.9	577.0	589.6	597.5	602.2
70°	2697.4	1570.2	714.1	591.2	570.7	532.9	513.9	491.9	474.5	471.4	472.9
72.5°	1319.5	898.6	580.1	502.9	487.1	452.5	409.9	400.4	392.5	387.8	386.2
75°	726.8	625.9	479.3	417.8	389.4	346.8	337.4	321.6	318.4	312.1	313.7
77.5°	513.9	493.4	395.7	338.9	296.4	274.3	279.0	268.0	268.0	263.3	261.7
80°	386.2	387.8	304.3	247.5	219.1	211.2	216.0	216.0	212.8	211.2	209.7
82.5°	244.4	275.9	204.9	159.2	156.1	157.6	156.1	154.5	157.6	152.9	151.3
85°	168.7	198.6	124.5	94.6	94.6	93.0	96.2	94.6	97.7	93.0	93.0
87.5°	37.8	88.3	45.7	28.4	30.0	28.4	30.0	31.5	34.7	36.3	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

(END OF REPORT)