

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: P636278

Luminaire Tested: GWS-SA3F-740-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636278  
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-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**

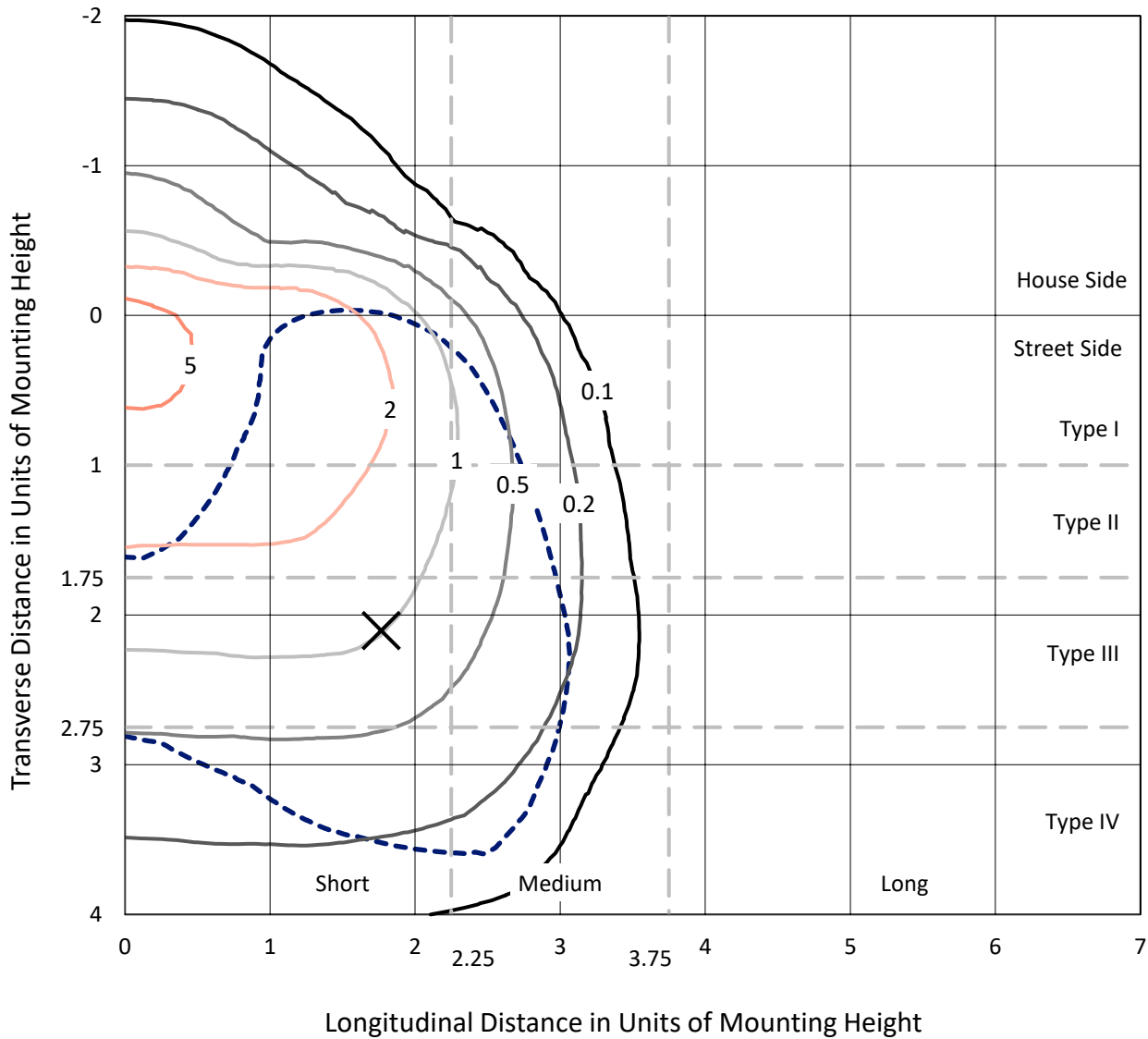
Lumens per Lamp: N/A  
Luminaire Lumens: 23482.2 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

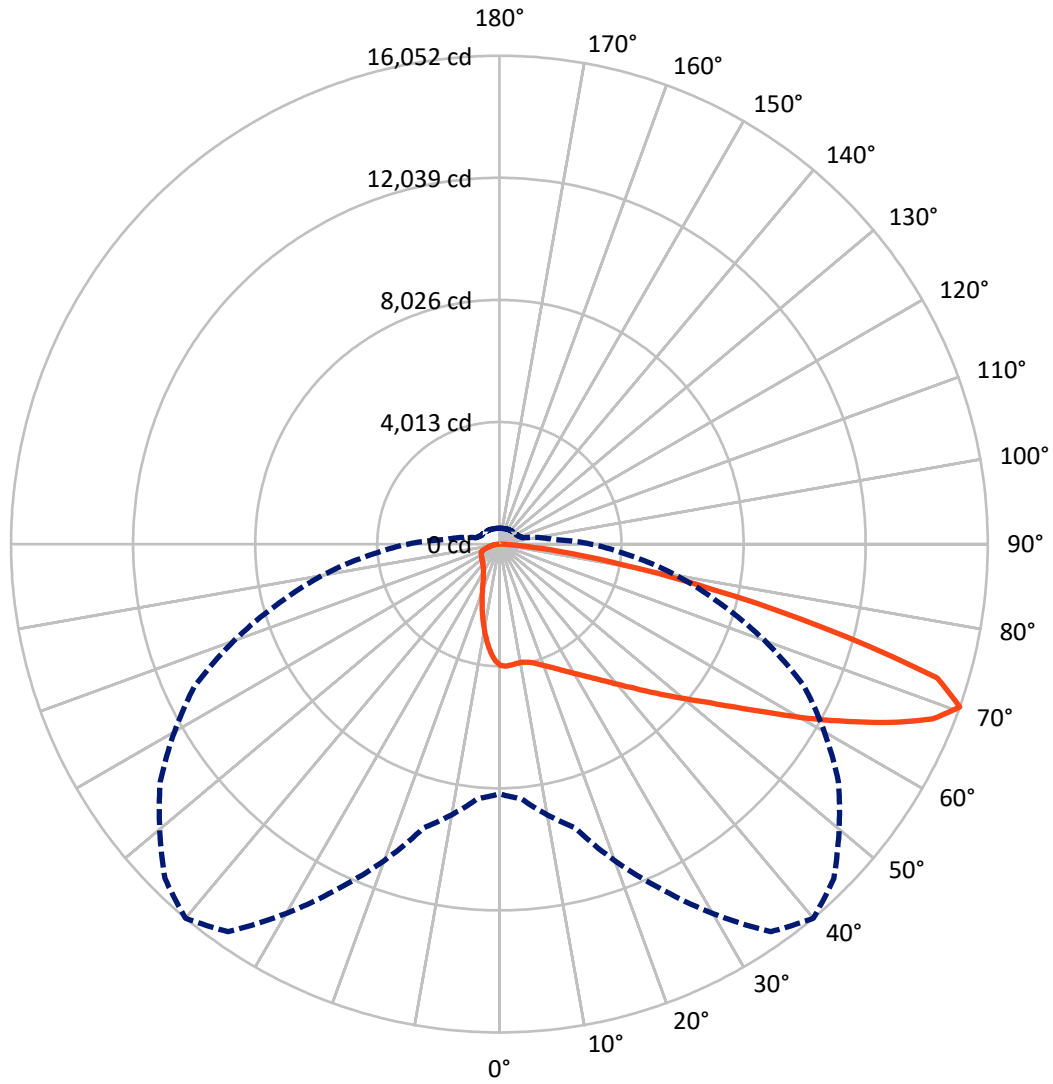
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	3616.9	0.0	3616.9
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	19865.3	0.0	19865.3
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	23482.2	0.0	23482.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.3	1.5
10°-20°	918.2	3.9
20°-30°	1441.8	6.1
30°-40°	2167.7	9.2
40°-50°	3345.9	14.2
50°-60°	4969.0	21.2
60°-70°	6263.3	26.7
70°-80°	3622.0	15.4
80°-90°	402.0	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°	23482.2	100.0
0°-180°	23482.2	100.0

**Coefficient of Utilization**



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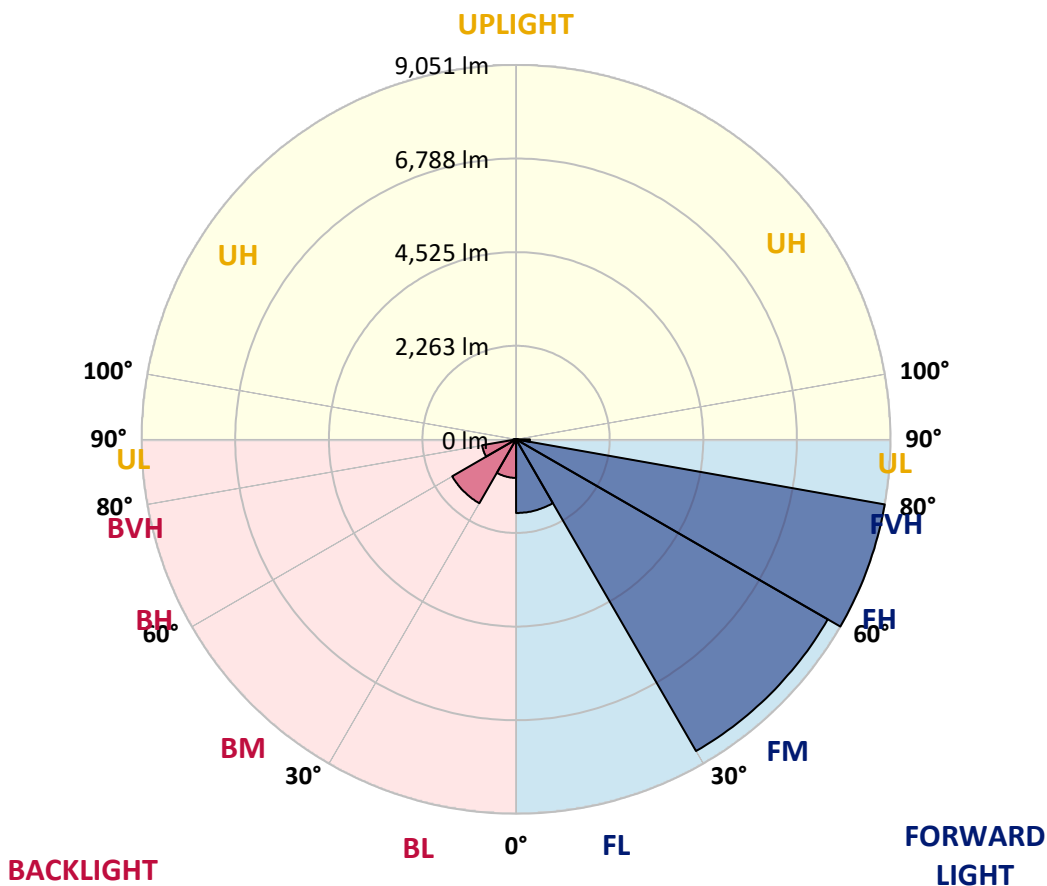
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1780.1	7.6			
FM (30°-60°)	8699.9	37.0			
FH (60°-80°)	9050.6	38.5			G4/12000
FVH (80°-90°)	334.8	1.4			G3/500
BL (0°-30°)	932.1	4.0	B2/1000		
BM (30°-60°)	1782.8	7.6	B2/2500		
BH (60°-80°)	834.8	3.6	B2/1000		G2/1000
BVH (80°-90°)	67.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	3987.5	3987.5	3987.5	3987.5	3987.5	3987.5	3987.5	3987.5	3987.5	3987.5	3987.5
2.5°	4012.1	4019.1	4024.4	4031.4	4027.9	4017.3	4026.1	4026.1	4006.8	3985.8	3966.5
5°	4017.3	4026.1	4024.4	4022.6	4008.6	3991.1	3991.1	3980.5	3947.2	3913.9	3882.4
7.5°	4006.8	4005.1	4003.3	3998.1	3982.3	3963.0	3959.5	3938.5	3894.7	3849.1	3803.5
10°	3959.5	3957.7	3963.0	3975.3	3971.8	3954.2	3954.2	3935.0	3884.1	3828.0	3768.5
12.5°	3920.9	3920.9	3942.0	3975.3	3987.5	3980.5	3982.3	3968.3	3910.4	3843.8	3773.7
15°	3926.2	3928.0	3973.5	4027.9	4050.6	4045.4	4047.1	4031.4	3966.5	3899.9	3805.3
17.5°	3961.3	3970.0	4048.9	4124.3	4154.1	4147.0	4134.8	4108.5	4034.9	3959.5	3843.8
20°	4034.9	4048.9	4150.6	4245.2	4280.3	4264.5	4243.5	4190.9	4110.2	4027.9	3885.9
22.5°	4180.4	4189.1	4301.3	4394.2	4422.2	4403.0	4360.9	4285.5	4192.6	4106.7	3936.7
25°	4385.4	4395.9	4502.9	4588.7	4581.7	4558.9	4501.1	4408.2	4297.8	4206.6	4010.3
27.5°	4629.1	4646.6	4751.8	4820.1	4774.5	4741.2	4676.4	4564.2	4439.8	4357.4	4122.5
30°	4895.5	4902.5	4991.9	5060.2	4990.1	4944.6	4865.7	4744.7	4632.6	4571.2	4290.8
32.5°	5153.1	5160.1	5237.3	5275.8	5202.2	5168.9	5100.6	4972.6	4893.7	4860.4	4541.4
35°	5424.8	5423.1	5486.2	5519.5	5444.1	5430.1	5360.0	5261.8	5247.8	5291.6	4907.7
37.5°	5696.5	5680.7	5714.0	5757.8	5715.8	5729.8	5684.2	5650.9	5705.3	5819.2	5395.0
40°	5913.8	5913.8	5948.9	6003.2	6017.3	6078.6	6052.3	6096.1	6271.4	6543.1	5998.0
42.5°	6106.6	6108.4	6182.0	6266.1	6367.8	6462.5	6483.5	6597.4	6960.2	7386.2	6755.2
45°	6308.2	6310.0	6409.9	6532.6	6748.2	6928.7	6970.8	7226.7	7745.5	8264.3	7577.2
47.5°	6541.3	6522.0	6660.5	6865.6	7172.3	7431.7	7540.4	7903.2	8558.8	9196.8	8351.9
50°	6804.2	6763.9	6918.2	7272.2	7650.8	8006.6	8188.9	8604.3	9431.6	10057.4	9081.1
52.5°	7100.5	7077.7	7238.9	7670.1	8248.5	8658.7	8905.8	9450.9	10280.0	10914.5	9659.5
55°	7468.5	7414.2	7647.3	8195.9	8949.6	9472.0	9764.7	10288.7	11207.2	11692.7	10101.2
57.5°	7871.7	7812.1	8124.1	8853.2	9861.1	10434.2	10800.6	11231.7	12080.1	12288.7	10360.6
60°	8306.4	8287.1	8656.9	9624.4	10947.8	11613.8	11878.5	12269.4	12839.0	12634.0	10295.8
62.5°	8704.2	8697.2	9235.3	10460.5	12099.4	12832.0	13042.3	13145.8	13385.9	12611.2	9780.4
65°	9123.2	9182.8	9910.1	11429.8	13419.2	14137.8	14225.5	13962.5	13569.9	12013.5	8725.3
67.5°	9175.7	9291.4	10334.3	12337.7	14670.7	15349.0	15278.9	14272.8	13026.6	10350.1	6839.3
70°	8206.5	8408.0	9657.8	12476.2	15552.3	16051.8	15545.3	13605.0	11054.7	7498.3	4301.3
72.5°	6856.8	7030.4	8134.6	10639.3	14414.8	15051.0	14365.7	11515.7	7812.1	4301.3	2191.0
75°	5337.2	5538.7	6557.1	8457.1	10791.8	11045.9	10702.4	8031.2	4294.3	1773.8	995.6
77.5°	3256.6	3402.1	4194.4	5729.8	7550.9	7170.6	6076.8	4502.9	1884.2	850.1	615.2
80°	1440.8	1530.2	2066.5	3077.9	4362.6	4124.3	3251.4	1922.8	1030.6	539.9	429.4
82.5°	773.0	830.8	1018.4	1218.2	1915.8	2003.4	1624.8	1107.7	553.9	308.5	245.4
85°	340.0	373.3	462.7	441.7	629.2	618.7	624.0	760.7	264.7	142.0	159.5
87.5°	0.0	0.0	0.0	0.0	1.8	1.8	19.3	101.7	26.3	42.1	36.8
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°	3987.5	3987.5	3987.5	3987.5	3987.5	3987.5	3987.5	3987.5	3987.5	3987.5	3987.5
2.5°	3945.5	3913.9	3905.2	3894.7	3875.4	3842.1	3817.5	3789.5	3777.2	3763.2	3764.9
5°	3847.3	3808.8	3772.0	3724.6	3665.0	3598.4	3552.9	3500.3	3472.2	3445.9	3453.0
7.5°	3763.2	3703.6	3628.2	3528.3	3421.4	3302.2	3205.8	3130.4	3079.6	3044.6	3062.1
10°	3710.6	3640.5	3509.0	3346.0	3165.5	2983.2	2844.7	2715.0	2634.4	2571.3	2567.8
12.5°	3700.1	3608.9	3417.9	3181.3	2920.1	2676.5	2473.2	2297.9	2191.0	2112.1	2141.9
15°	3710.6	3594.9	3339.0	3028.8	2699.3	2369.7	2117.3	1915.8	1787.8	1716.0	1710.7
17.5°	3722.9	3580.9	3249.6	2864.0	2467.9	2091.1	1798.3	1584.5	1453.0	1381.2	1382.9
20°	3733.4	3559.9	3144.5	2683.5	2233.0	1831.6	1528.4	1325.1	1207.7	1155.1	1163.8
22.5°	3750.9	3538.8	3032.3	2490.7	1992.9	1581.0	1314.6	1149.8	1079.7	1044.6	1046.4
25°	3784.2	3526.6	2916.6	2280.4	1756.3	1381.2	1167.3	1056.9	1013.1	992.1	990.3
27.5°	3852.6	3537.1	2795.7	2077.0	1542.4	1228.7	1072.7	1000.8	971.0	957.0	955.3
30°	3966.5	3579.2	2690.5	1870.2	1358.4	1109.5	1007.8	964.0	946.5	934.2	932.5
32.5°	4140.0	3658.0	2576.6	1677.4	1209.4	1021.9	957.0	934.2	922.0	914.9	914.9
35°	4403.0	3801.8	2464.4	1509.1	1093.7	953.5	916.7	907.9	897.4	893.9	897.4
37.5°	4781.6	4031.4	2362.7	1361.9	1011.3	900.9	872.9	876.4	867.6	872.9	878.1
40°	5261.8	4338.1	2276.8	1241.0	950.0	862.4	834.3	846.6	841.3	846.6	855.4
42.5°	5870.0	4718.5	2212.0	1146.3	906.2	830.8	804.5	816.8	813.3	820.3	829.1
45°	6548.3	5219.7	2182.2	1079.7	874.6	808.0	780.0	788.7	785.2	790.5	799.3
47.5°	7198.6	5675.5	2208.5	1041.1	848.3	788.7	758.9	762.5	760.7	758.9	764.2
50°	7759.5	6038.3	2283.9	1028.9	830.8	769.5	741.4	743.2	737.9	727.4	730.9
52.5°	8217.0	6329.2	2329.4	1028.9	822.0	748.4	722.1	723.9	713.4	699.4	701.1
55°	8518.5	6446.7	2292.6	1027.1	818.5	730.9	702.9	704.6	694.1	676.6	678.3
57.5°	8604.3	6332.8	2138.4	1007.8	815.0	716.9	683.6	687.1	680.1	660.8	660.8
60°	8364.2	5915.6	1856.2	964.0	806.3	708.1	669.6	674.8	671.3	652.0	652.0
62.5°	7735.0	5174.2	1519.6	897.4	781.7	697.6	657.3	667.8	676.6	666.1	664.3
65°	6557.1	4145.3	1235.7	823.8	750.2	680.1	639.8	666.1	685.3	699.4	699.4
67.5°	4920.0	2967.4	1007.8	746.7	702.9	645.0	617.0	641.5	655.5	664.3	669.6
70°	2999.0	1745.8	794.0	657.3	634.5	592.4	571.4	546.9	527.6	524.1	525.8
72.5°	1467.1	999.1	645.0	559.1	541.6	503.0	455.7	445.2	436.4	431.2	429.4
75°	808.0	695.8	532.8	464.5	432.9	385.6	375.1	357.6	354.1	347.0	348.8
77.5°	571.4	548.6	439.9	376.8	329.5	305.0	310.2	298.0	298.0	292.7	291.0
80°	429.4	431.2	338.3	275.2	243.6	234.9	240.1	240.1	236.6	234.9	233.1
82.5°	271.7	306.7	227.9	177.0	173.5	175.3	173.5	171.8	175.3	170.0	168.3
85°	187.5	220.8	138.5	105.2	105.2	103.4	106.9	105.2	108.7	103.4	103.4
87.5°	42.1	98.2	50.8	31.5	33.3	31.5	33.3	35.1	38.6	40.3	40.3
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)