

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: P636413

Luminaire Tested: GWS-SA3F-760-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636413  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-760-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (48) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

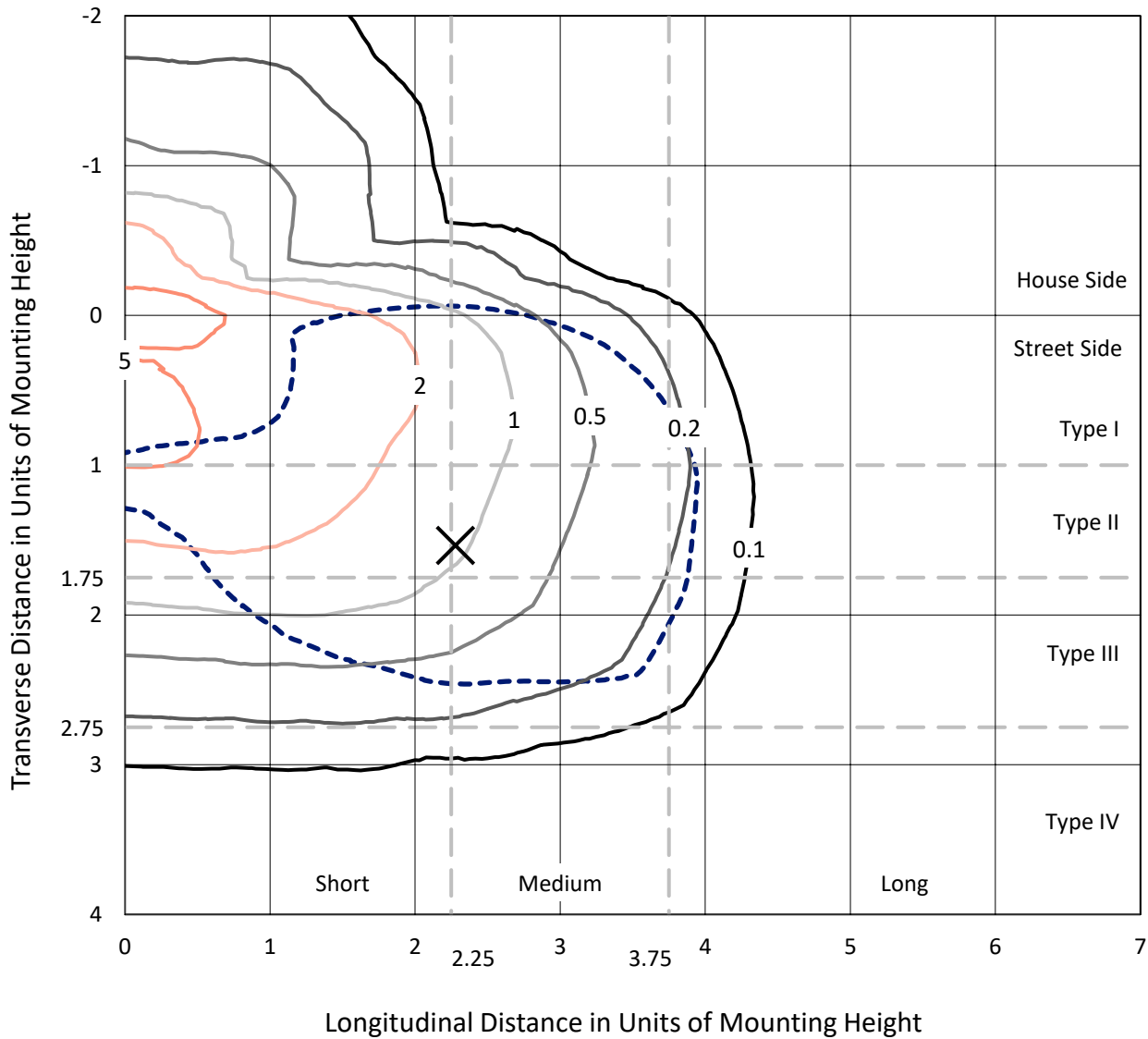
Lumens per Lamp: N/A  
Luminaire Lumens: 25077.5 lumens  
Efficiency: N/A  
Efficacy: 136.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

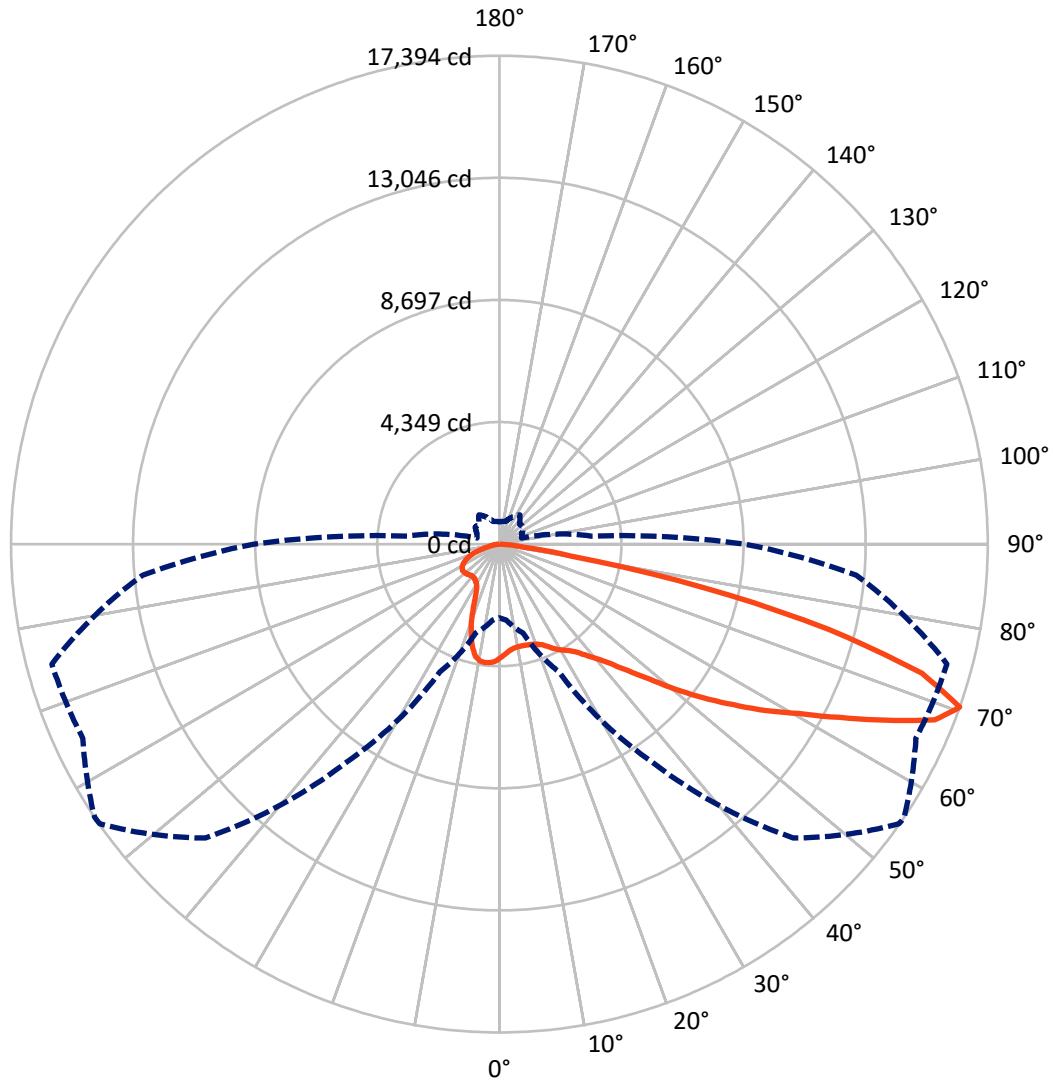
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4821.2	0.0	4821.2
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	20256.3	0.0	20256.3
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	25077.5	0.0	25077.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.6	1.5
10°-20°	1015.0	4.0
20°-30°	1678.0	6.7
30°-40°	2508.9	10.0
40°-50°	3733.5	14.9
50°-60°	5307.9	21.2
60°-70°	6574.1	26.2
70°-80°	3630.0	14.5
80°-90°	255.7	1.0
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°	25077.5	100.0
0°-180°	25077.5	100.0

**Coefficient of Utilization**



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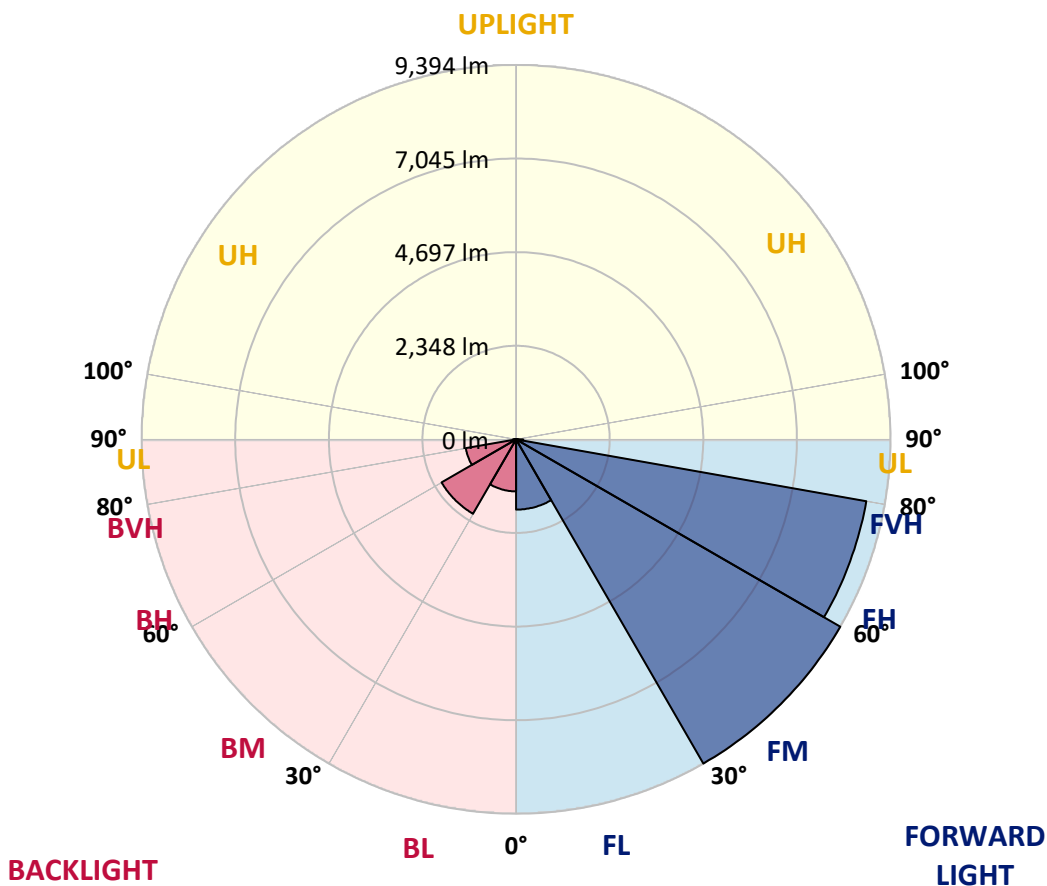
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1762.4	7.0			
FM (30°-60°)	9393.7	37.5			
FH (60°-80°)	8922.6	35.6			G4/12000
FVH (80°-90°)	177.7	0.7			G2/225
BL (0°-30°)	1305.1	5.2	B3/2500		
BM (30°-60°)	2156.6	8.6	B2/2500		
BH (60°-80°)	1281.4	5.1	B3/2500		G3/2500
BVH (80°-90°)	78.0	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9
2.5°	3787.9	3766.7	3791.5	3803.9	3835.7	3881.7	3922.3	3924.1	3945.3	3996.6	4046.1
5°	3616.4	3605.8	3612.9	3650.0	3683.6	3742.0	3803.9	3809.2	3869.3	3970.1	4069.1
7.5°	3483.8	3469.6	3496.1	3543.9	3586.3	3651.8	3733.1	3740.2	3825.1	3977.2	4129.2
10°	3292.8	3282.2	3331.7	3395.4	3487.3	3595.2	3703.1	3711.9	3823.3	4023.1	4235.3
12.5°	3209.7	3209.7	3230.9	3291.0	3391.8	3535.1	3697.7	3711.9	3851.6	4093.9	4371.5
15°	3338.8	3347.6	3329.9	3326.4	3367.1	3503.2	3704.8	3726.0	3904.7	4166.4	4505.9
17.5°	3598.7	3607.6	3561.6	3489.1	3448.4	3533.3	3731.3	3754.3	3961.2	4246.0	4650.9
20°	3963.0	3973.6	3872.8	3761.4	3621.7	3619.9	3782.6	3803.9	4033.7	4332.6	4804.8
22.5°	4389.2	4396.3	4268.9	4092.1	3878.1	3780.9	3871.1	3892.3	4127.5	4452.9	4971.0
25°	4882.6	4903.8	4750.0	4493.5	4203.5	4001.9	4017.8	4042.6	4295.5	4613.8	5167.3
27.5°	5409.6	5436.1	5259.3	4976.3	4576.6	4246.0	4207.1	4228.3	4474.1	4712.8	5271.6
30°	5948.9	5968.4	5791.5	5467.9	4978.1	4521.8	4366.2	4378.6	4551.9	4760.6	5377.7
32.5°	6548.4	6532.5	6362.7	5989.6	5441.4	4852.5	4514.8	4511.2	4638.5	4856.1	5529.8
35°	7110.8	7133.8	6953.4	6541.4	5950.7	5261.0	4737.6	4723.4	4822.5	5011.7	5743.8
37.5°	7791.6	7784.5	7568.8	7123.2	6461.8	5651.8	5050.6	5025.8	5061.2	5254.0	6042.7
40°	8277.9	8327.5	8187.7	7772.2	7059.5	6132.9	5416.6	5361.8	5370.7	5552.8	6442.3
42.5°	8675.8	8721.8	8736.0	8470.7	7743.9	6727.0	5872.9	5818.1	5823.4	6081.6	6933.9
45°	8981.8	9043.7	9243.5	9165.7	8514.9	7413.2	6490.1	6433.5	6437.0	6723.5	7528.1
47.5°	9107.3	9174.5	9579.5	9765.2	9333.7	8233.7	7257.6	7174.4	7186.8	7503.4	8207.2
50°	9066.6	9156.8	9705.0	10226.7	10019.8	9068.4	8175.4	8117.0	8069.3	8529.0	8944.6
52.5°	8716.5	8815.5	9692.7	10520.3	10580.4	9857.1	9123.2	9089.6	9079.0	9618.4	9768.7
55°	7685.5	7851.7	9266.5	10598.1	11019.0	10599.9	10150.7	10094.1	10148.9	10785.5	10601.6
57.5°	7114.3	7238.1	8431.8	10511.4	11378.0	11307.2	11176.4	11181.7	11243.6	12053.5	11611.4
60°	6788.9	6933.9	7968.5	10274.5	11722.8	12166.7	12249.8	12249.8	12361.2	13420.5	12637.1
62.5°	6357.4	6504.2	7535.2	9818.2	12041.1	13178.2	13599.1	13593.8	13638.0	14886.5	13639.8
65°	5482.1	5618.2	6665.1	9098.5	12196.7	14292.3	15132.3	15116.4	15028.0	16191.6	14302.9
67.5°	3980.7	4109.8	5105.4	7729.7	11636.1	15190.7	16711.5	16718.6	16189.8	17013.9	14338.3
70°	2624.3	2712.7	3282.2	5020.5	9462.8	14803.4	17372.9	17394.1	16368.4	16501.0	12760.9
72.5°	1637.5	1699.4	2049.6	2993.9	5591.7	11717.5	15675.2	15733.6	14725.6	14501.0	10484.9
75°	1087.6	1130.0	1363.4	1745.4	2587.2	6341.5	11915.6	12103.0	11802.4	11367.3	7305.3
77.5°	654.3	689.7	868.3	1108.8	1145.9	2477.5	6955.2	7439.7	7482.1	5934.8	3059.4
80°	298.9	339.5	479.2	633.1	610.1	863.0	2452.8	2566.0	3027.5	1885.1	965.6
82.5°	176.8	194.5	318.3	314.8	260.0	419.1	882.4	905.4	769.3	689.7	412.0
85°	70.7	83.1	134.4	118.5	95.5	136.2	332.5	348.4	334.2	300.6	152.1
87.5°	0.0	0.0	0.0	0.0	1.8	3.5	30.1	31.8	46.0	83.1	46.0
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°	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9	4047.9
2.5°	4078.0	4067.3	4120.4	4161.1	4178.8	4196.4	4180.5	4175.2	4175.2	4139.9	4122.2
5°	4122.2	4127.5	4200.0	4233.6	4233.6	4219.4	4177.0	4146.9	4136.3	4090.3	4078.0
7.5°	4205.3	4228.3	4295.5	4293.7	4244.2	4166.4	4060.3	3978.9	3904.7	3872.8	3853.4
10°	4341.5	4371.5	4417.5	4343.2	4205.3	4000.1	3775.6	3598.7	3492.6	3407.7	3407.7
12.5°	4497.1	4525.4	4516.5	4345.0	4060.3	3676.5	3352.9	3149.5	3001.0	2923.2	2923.2
15°	4652.7	4675.7	4580.2	4263.6	3757.9	3246.8	2893.1	2649.1	2520.0	2447.5	2447.5
17.5°	4810.1	4808.3	4606.7	4076.2	3363.5	2771.1	2424.5	2235.3	2191.1	2178.7	2176.9
20°	4962.2	4921.5	4573.1	3763.2	2905.5	2291.9	2072.6	2085.0	2150.4	2178.7	2182.2
22.5°	5133.7	5032.9	4474.1	3363.5	2385.6	1959.4	1973.5	2076.1	2171.6	2214.1	2219.4
25°	5308.8	5128.4	4307.9	2894.9	1950.6	1837.4	1947.0	2062.0	2169.8	2224.7	2230.0
27.5°	5379.5	5128.4	4024.9	2352.0	1718.9	1786.1	1906.3	2017.8	2130.9	2194.6	2207.0
30°	5437.9	5084.2	3628.8	1862.1	1623.4	1736.6	1840.9	1943.5	2054.9	2132.7	2146.9
32.5°	5519.2	5045.3	3149.5	1565.0	1579.2	1688.8	1761.3	1848.0	1948.8	2000.1	1994.8
35°	5614.7	4985.2	2571.3	1423.6	1542.1	1648.2	1699.4	1750.7	1704.7	1703.0	1708.3
37.5°	5750.9	4932.1	2067.3	1359.9	1517.3	1619.9	1662.3	1552.7	1489.0	1462.5	1451.9
40°	5947.2	4910.9	1630.5	1322.8	1513.8	1618.1	1588.0	1418.3	1331.6	1239.7	1237.9
42.5°	6194.7	4895.0	1347.5	1305.1	1526.1	1658.8	1485.5	1329.8	1151.2	1110.6	1107.0
45°	6513.1	4870.2	1206.1	1301.6	1556.2	1690.6	1474.9	1207.8	1085.8	1068.1	1068.1
47.5°	6896.8	4831.3	1142.4	1301.6	1589.8	1676.5	1443.0	1181.3	1055.7	1075.2	1087.6
50°	7337.1	4781.8	1108.8	1298.0	1623.4	1676.5	1375.8	1176.0	1048.7	1149.5	1190.1
52.5°	7807.5	4725.2	1085.8	1283.9	1646.4	1678.2	1379.4	1193.7	1055.7	1167.2	1200.8
55°	8327.5	4716.4	1054.0	1253.8	1653.5	1632.2	1388.2	1232.6	1066.4	1057.5	1059.3
57.5°	8983.5	4822.5	1031.0	1209.6	1625.2	1538.5	1405.9	1260.9	1054.0	1055.7	1068.1
60°	9669.7	5022.3	1050.4	1167.2	1566.8	1450.1	1418.3	1246.7	993.8	965.6	969.1
62.5°	10253.3	5174.4	1066.4	1147.7	1481.9	1372.3	1405.9	1214.9	960.2	953.2	969.1
65°	10497.3	5048.8	1027.4	1107.0	1358.1	1276.8	1379.4	1174.2	932.0	905.4	907.2
67.5°	10226.7	4459.9	951.4	1016.8	1218.4	1154.8	1336.9	1121.2	893.0	861.2	854.1
70°	8736.0	3276.9	820.5	873.6	1048.7	1011.5	1271.5	1052.2	831.2	808.2	792.2
72.5°	7040.0	2320.2	680.8	695.0	822.3	852.4	1158.3	965.6	760.4	695.0	672.0
75°	4900.3	1457.2	567.7	553.5	594.2	650.8	903.7	801.1	656.1	587.1	565.9
77.5°	2107.9	748.0	443.9	436.8	396.1	450.9	693.2	668.5	550.0	470.4	458.0
80°	705.6	433.3	320.1	307.7	263.5	316.5	488.1	534.1	431.5	348.4	327.2
82.5°	353.7	251.1	203.4	183.9	176.8	199.8	288.3	332.5	298.9	240.5	203.4
85°	173.3	143.2	111.4	109.6	92.0	86.7	120.3	141.5	134.4	99.0	93.7
87.5°	63.7	56.6	35.4	28.3	17.7	12.4	7.1	7.1	5.3	5.3	5.3
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)