

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: P638546

Luminaire Tested: GWS-SA4F-722-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-722-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24865.6 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

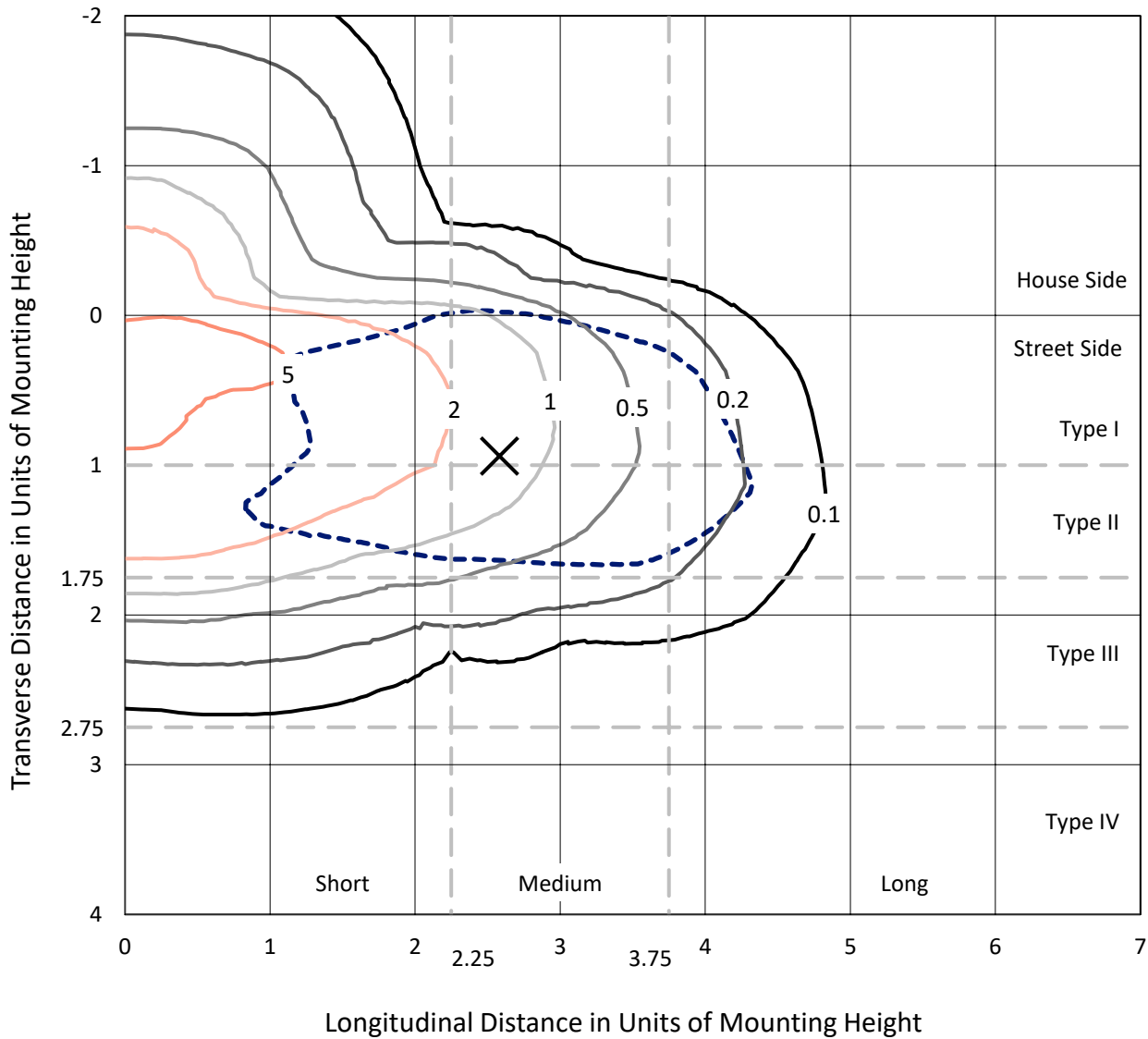
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

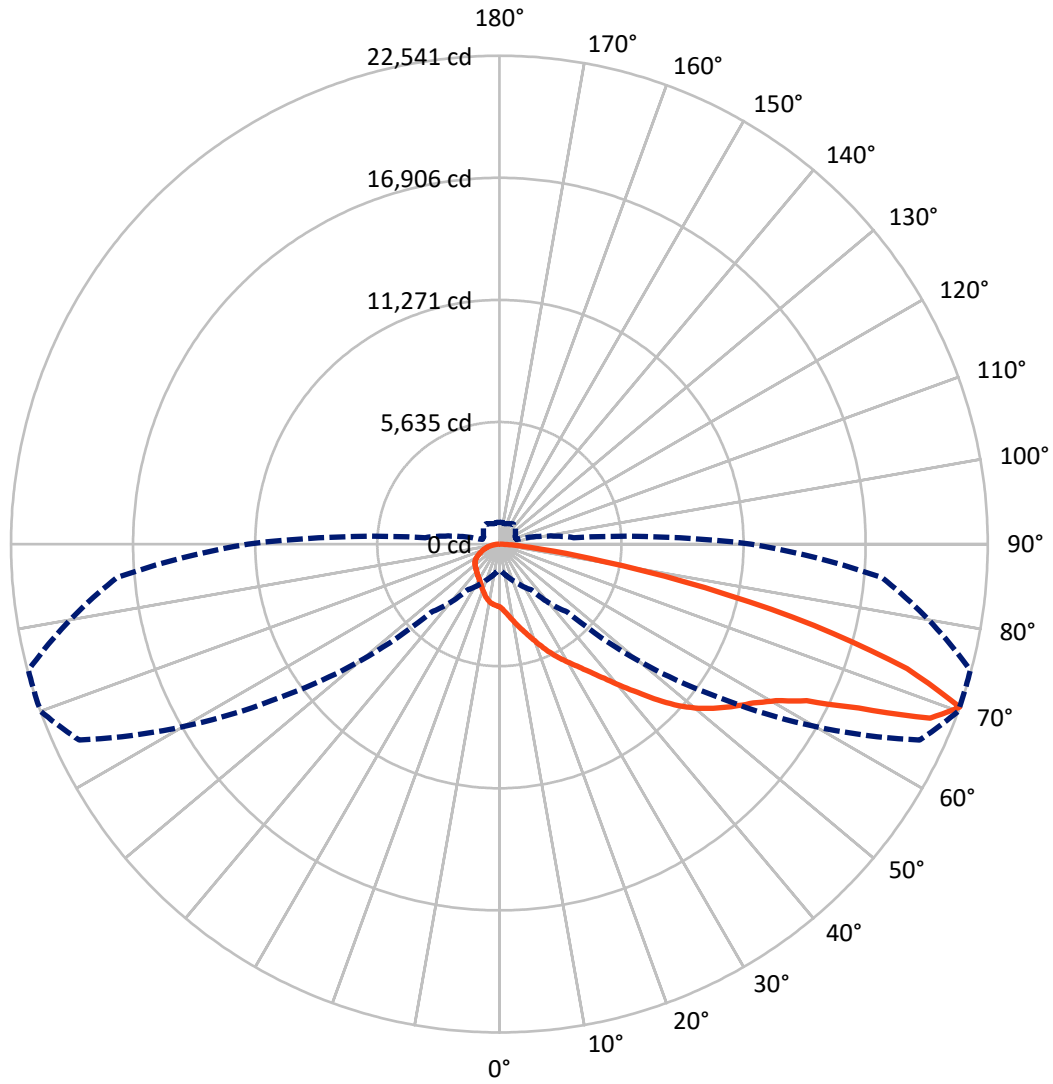
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4456.0	0.0	4456.0
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	20409.6	0.0	20409.6
	% Fixture	82.1	0.0	82.1
Total	Lumens	24865.6	0.0	24865.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.7	1.2
10°-20°	958.8	3.9
20°-30°	1698.5	6.8
30°-40°	2556.3	10.3
40°-50°	3867.4	15.6
50°-60°	5540.2	22.3
60°-70°	6124.1	24.6
70°-80°	3456.0	13.9
80°-90°	369.7	1.5
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°	24865.6	100.0
0°-180°	24865.6	100.0

Coefficient of Utilization



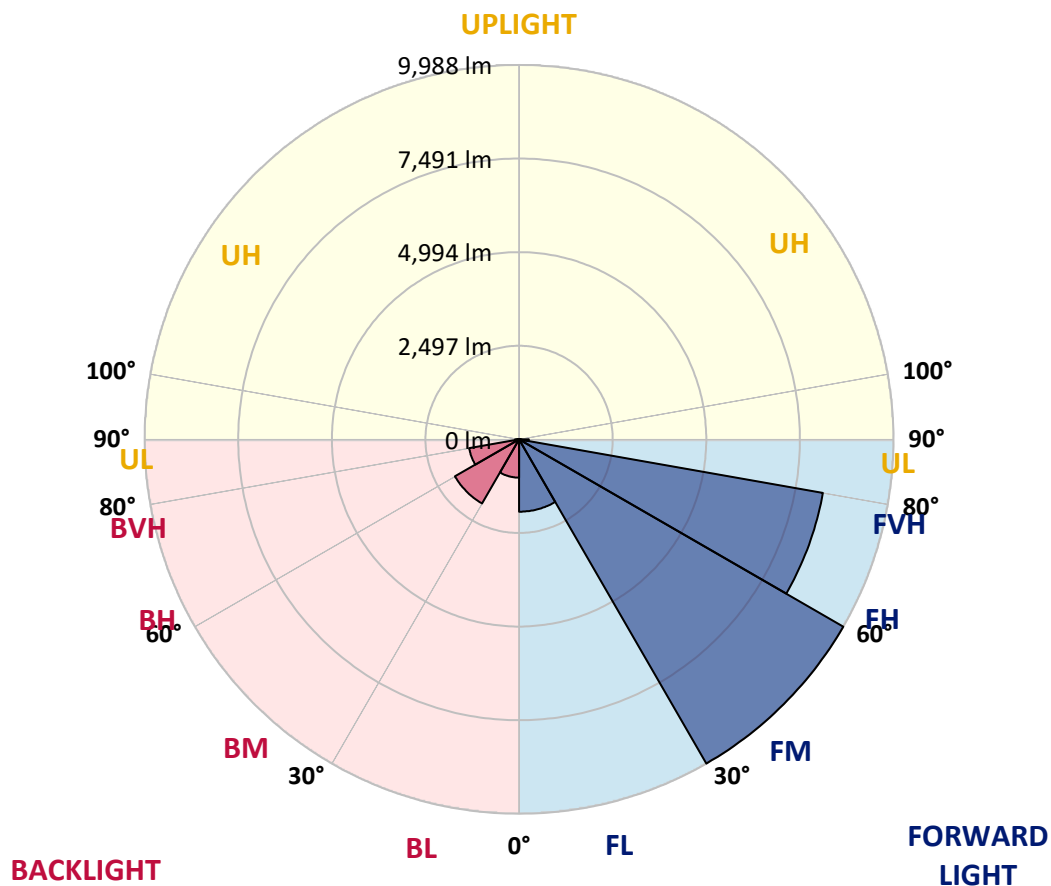
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1930.3	7.8			
FM (30°-60°)	9988.5	40.2			
FH (60°-80°)	8229.5	33.1			G4/12000
FVH (80°-90°)	261.3	1.1			G3/500
BL (0°-30°)	1021.7	4.1	B3/2500		
BM (30°-60°)	1975.4	7.9	B2/2500		
BH (60°-80°)	1350.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	108.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2899.8	2899.8	2899.8	2899.8	2899.8	2899.8	2899.8	2899.8	2899.8	2899.8	2899.8
2.5°	3212.5	3207.1	3210.7	3207.1	3187.3	3138.8	3099.3	3049.0	3014.8	2995.1	2948.4
5°	3589.8	3584.4	3571.8	3553.8	3517.9	3451.4	3352.6	3243.0	3176.5	3126.2	3027.4
7.5°	3861.1	3861.1	3859.3	3837.7	3812.6	3742.5	3625.7	3482.0	3384.9	3298.7	3137.0
10°	3999.4	4008.4	4021.0	4051.5	4046.1	4008.4	3898.8	3744.3	3622.1	3521.5	3280.7
12.5°	4074.9	4080.3	4101.8	4164.7	4229.4	4238.4	4173.7	4012.0	3879.0	3744.3	3440.6
15°	4171.9	4173.7	4202.4	4277.9	4373.1	4468.3	4452.2	4290.5	4153.9	4004.8	3618.5
17.5°	4247.4	4259.9	4312.0	4400.1	4518.7	4649.8	4728.9	4628.3	4459.4	4288.7	3812.6
20°	4274.3	4283.3	4351.6	4486.3	4648.0	4833.1	5009.1	4982.2	4811.5	4610.3	4031.8
22.5°	4371.3	4371.3	4421.6	4534.8	4725.3	4994.8	5280.4	5350.5	5199.6	4964.2	4267.1
25°	4585.1	4577.9	4601.3	4648.0	4791.7	5124.1	5548.2	5758.4	5589.5	5325.4	4502.5
27.5°	4878.0	4874.4	4872.6	4879.8	4928.3	5237.3	5774.5	6139.3	5970.4	5672.1	4712.7
30°	5196.0	5185.2	5208.6	5187.0	5176.2	5372.1	5966.8	6480.6	6349.5	6015.3	4887.0
32.5°	5629.0	5609.2	5603.8	5533.8	5490.7	5582.3	6121.3	6868.7	6764.5	6385.4	5082.8
35°	6200.3	6182.4	6090.8	5979.4	5851.8	5894.9	6313.5	7247.8	7255.0	6848.9	5339.7
37.5°	6777.1	6780.7	6708.8	6446.5	6315.3	6290.2	6606.4	7709.6	7864.1	7402.3	5672.1
40°	7256.8	7278.4	7278.4	7001.7	6805.8	6782.5	7017.8	8257.5	8564.8	8081.5	6092.5
42.5°	7621.5	7641.3	7704.2	7504.7	7298.1	7379.0	7517.3	8807.3	9358.9	8920.5	6624.4
45°	8022.2	8038.4	8072.5	7957.5	7837.1	8052.7	8083.3	9464.9	10268.0	9862.0	7242.4
47.5°	8554.0	8539.6	8543.2	8458.8	8365.3	8713.9	8706.7	10018.3	11146.6	10893.3	7912.6
50°	9215.2	9242.1	9217.0	9049.9	8940.3	9258.3	9299.6	10631.0	11919.2	11913.8	8588.1
52.5°	9851.2	9862.0	9994.9	10002.1	9777.5	9711.1	9818.9	11249.0	12571.4	12848.1	9236.7
55°	9883.5	9924.9	10323.7	10611.2	10974.1	10440.5	10343.5	11838.3	13202.0	13762.6	9910.5
57.5°	9195.4	9261.9	9939.2	10559.1	11568.8	11692.8	11241.8	12600.1	13832.7	14662.7	10690.3
60°	7725.7	7864.1	8784.0	9732.6	11301.1	12592.9	13079.8	13635.0	14660.9	15582.6	11637.1
62.5°	4933.7	4987.6	6277.6	7865.9	10095.6	12504.9	15081.3	15458.6	15922.2	16781.0	13096.0
65°	2470.4	2642.9	3399.3	4694.7	7280.2	11019.0	16092.9	18798.7	18230.9	18832.8	15460.4
67.5°	1676.3	1732.0	2114.7	2820.8	4268.9	7806.6	15465.8	21612.3	21445.2	21544.0	17981.2
70°	1236.1	1272.1	1573.9	1997.9	2581.8	4432.4	12312.7	21400.3	22541.2	22505.2	17717.1
72.5°	901.9	919.9	1148.1	1525.4	1913.5	2292.6	7519.1	17287.7	19677.3	20713.9	15494.6
75°	655.8	677.3	797.7	1140.9	1487.7	1430.2	3711.9	12486.9	15005.9	17000.2	12623.5
77.5°	488.7	515.6	571.3	715.1	1042.1	1024.1	1604.4	8108.4	9705.7	11103.5	7668.2
80°	352.1	357.5	389.9	458.2	661.2	600.1	763.6	4227.6	4847.4	5311.0	3005.8
82.5°	213.8	219.2	260.5	282.1	409.6	377.3	397.1	1369.1	1962.0	2082.4	1122.9
85°	62.9	66.5	118.6	129.4	170.7	161.7	159.9	557.0	664.8	849.8	442.0
87.5°	0.0	0.0	0.0	0.0	1.8	10.8	19.8	98.8	149.1	206.6	107.8
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°	2899.8	2899.8	2899.8	2899.8	2899.8	2899.8	2899.8	2899.8	2899.8	2899.8	2899.8
2.5°	2930.4	2889.1	2867.5	2829.8	2802.8	2775.9	2748.9	2723.8	2713.0	2696.8	2700.4
5°	2982.5	2917.8	2853.1	2779.5	2716.6	2664.5	2617.8	2576.4	2558.5	2542.3	2549.5
7.5°	3061.5	2964.5	2840.6	2705.8	2607.0	2535.1	2486.6	2457.9	2448.9	2436.3	2436.3
10°	3162.2	3016.6	2799.2	2607.0	2488.4	2430.9	2409.3	2407.6	2416.5	2418.3	2414.7
12.5°	3273.6	3066.9	2738.1	2490.2	2389.6	2371.6	2387.8	2418.3	2448.9	2465.0	2461.5
15°	3388.5	3099.3	2633.9	2378.8	2317.7	2341.1	2393.2	2454.3	2513.6	2544.1	2542.3
17.5°	3496.3	3106.5	2499.2	2271.0	2254.8	2314.1	2404.0	2499.2	2580.0	2623.2	2625.0
20°	3616.7	3093.9	2360.8	2174.0	2192.0	2289.0	2407.6	2522.5	2617.8	2660.9	2671.7
22.5°	3726.3	3050.8	2226.1	2082.4	2138.1	2258.4	2378.8	2486.6	2571.1	2612.4	2626.7
25°	3825.1	2968.1	2078.8	2005.1	2096.7	2215.3	2306.9	2382.4	2441.7	2466.8	2486.6
27.5°	3879.0	2844.1	1967.4	1944.0	2057.2	2154.2	2204.5	2227.9	2247.6	2240.5	2254.8
30°	3889.8	2689.6	1870.3	1895.5	1997.9	2069.8	2080.6	2057.2	2023.1	1967.4	1979.9
32.5°	3879.0	2511.8	1789.5	1843.4	1931.4	1974.6	1960.2	1899.1	1816.4	1730.2	1735.6
35°	3882.6	2332.1	1723.0	1785.9	1854.2	1877.5	1841.6	1757.2	1669.1	1590.1	1586.5
37.5°	3922.2	2181.2	1667.3	1730.2	1778.7	1782.3	1742.8	1654.7	1609.8	1550.5	1543.3
40°	4031.8	2069.8	1617.0	1674.5	1705.1	1703.3	1658.3	1595.5	1626.0	1606.2	1600.8
42.5°	4211.4	2001.5	1575.7	1615.2	1636.8	1640.4	1604.4	1564.9	1631.4	1606.2	1597.2
45°	4500.7	1997.9	1546.9	1555.9	1590.1	1615.2	1590.1	1545.1	1570.3	1448.1	1424.8
47.5°	4843.9	2059.0	1525.4	1503.8	1563.1	1608.0	1568.5	1496.6	1444.5	1333.1	1317.0
50°	5257.1	2183.0	1505.6	1448.1	1523.6	1581.1	1541.6	1442.7	1363.7	1304.4	1295.4
52.5°	5747.6	2346.5	1480.5	1385.2	1464.3	1566.7	1541.6	1437.3	1333.1	1279.2	1270.3
55°	6261.4	2535.1	1451.7	1309.8	1397.8	1570.3	1554.1	1399.6	1309.8	1281.0	1273.8
57.5°	6899.3	2761.5	1399.6	1221.7	1338.5	1538.0	1503.8	1378.1	1293.6	1270.3	1263.1
60°	7727.5	3097.5	1300.8	1131.9	1270.3	1480.5	1458.9	1342.1	1250.5	1230.7	1225.3
62.5°	9039.1	3667.0	1180.4	1045.7	1189.4	1360.1	1392.4	1273.8	1196.6	1194.8	1193.0
65°	11177.2	4351.6	1038.5	968.4	1105.0	1261.3	1304.4	1203.8	1140.9	1160.7	1158.9
67.5°	12675.6	4410.9	921.7	887.6	1006.1	1153.5	1216.4	1131.9	1063.6	1101.4	1099.6
70°	11610.2	3440.6	821.1	803.1	900.1	1036.7	1121.1	1042.1	973.8	1009.7	1002.5
72.5°	9791.9	2637.5	725.9	715.1	792.3	914.5	999.0	952.2	880.4	880.4	864.2
75°	7869.5	2175.8	625.2	619.9	672.0	790.5	885.8	806.7	740.2	736.6	725.9
77.5°	4513.3	1426.6	524.6	521.0	537.2	661.2	688.1	672.0	621.7	598.3	591.1
80°	1798.5	742.0	413.2	389.9	406.1	485.1	542.6	515.6	472.5	443.8	427.6
82.5°	697.1	371.9	291.1	255.1	278.5	350.4	393.5	384.5	355.7	291.1	273.1
85°	283.9	181.5	174.3	147.3	161.7	188.7	226.4	195.8	161.7	115.0	109.6
87.5°	75.5	66.5	64.7	39.5	30.5	9.0	1.8	0.0	0.0	0.0	0.0
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)