

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: P637788

Luminaire Tested: GWS-SA4D-740-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637788
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-SA4D-740-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24895.4 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

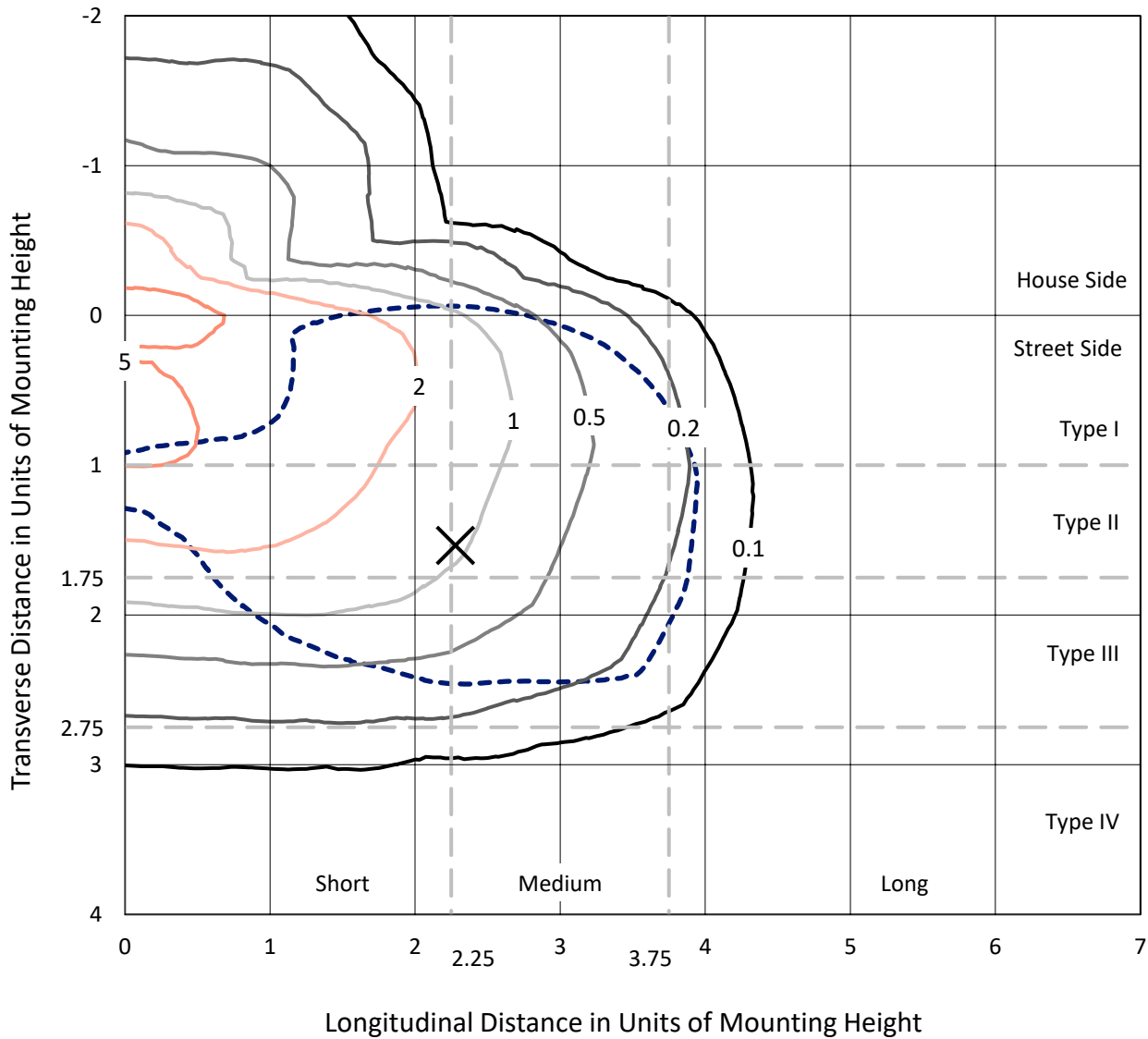
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637788
 CATALOG NUMBER: GWS-SA4D-740-U-T3R-W

Iso-Footcandle Lines of Horizontal Illumination

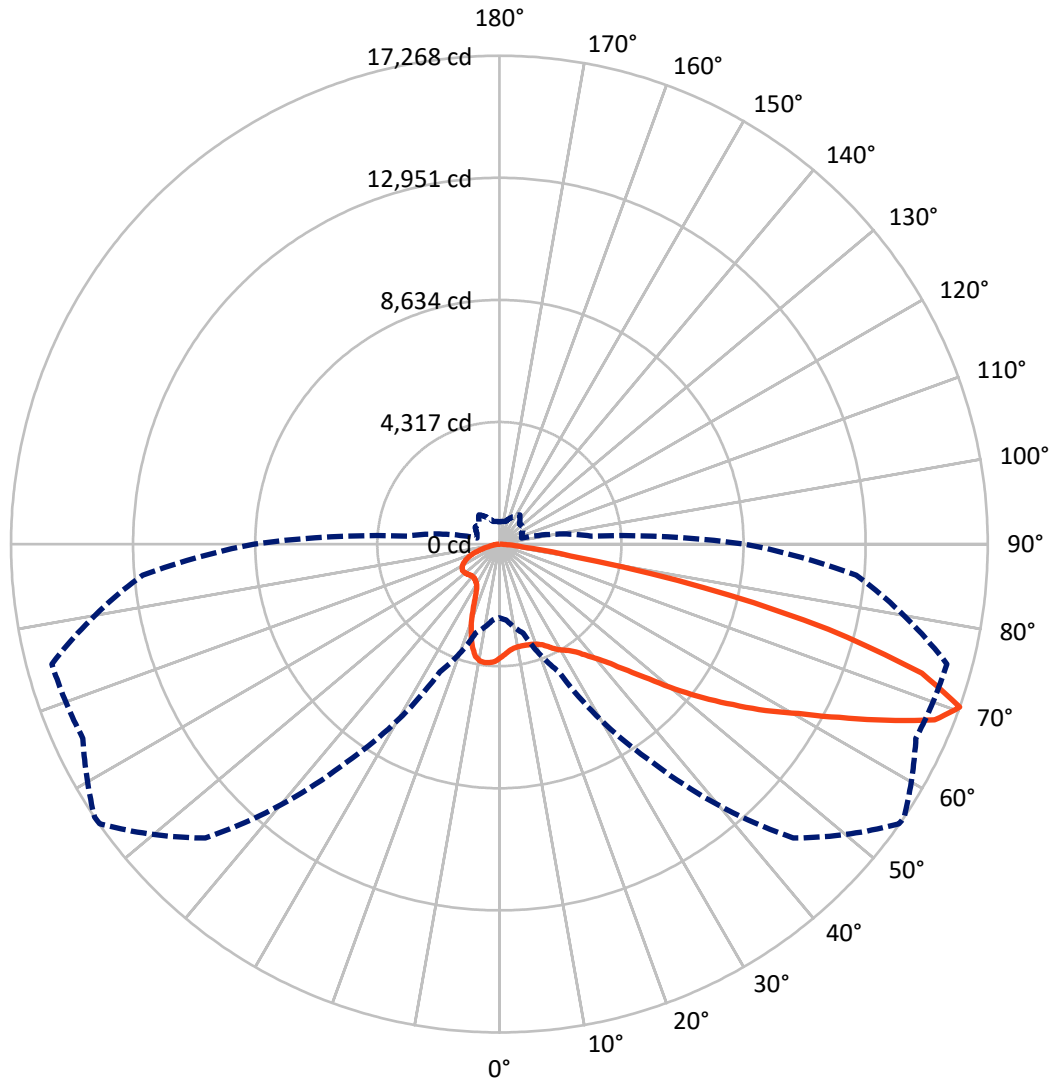
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P637788
CATALOG NUMBER: GWS-SA4D-740-U-T3R-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637788

CATALOG NUMBER: GWS-SA4D-740-U-T3R-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4786.2	0.0	4786.2
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	20109.2	0.0	20109.2
	% Fixture	80.8	0.0	80.8
Total	Lumens	24895.4	0.0	24895.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.9	1.5
10°-20°	1007.6	4.0
20°-30°	1665.8	6.7
30°-40°	2490.6	10.0
40°-50°	3706.4	14.9
50°-60°	5269.4	21.2
60°-70°	6526.3	26.2
70°-80°	3603.6	14.5
80°-90°	253.8	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°	24895.4	100.0
0°-180°	24895.4	100.0

Coefficient of Utilization



REPORT NUMBER: P637788

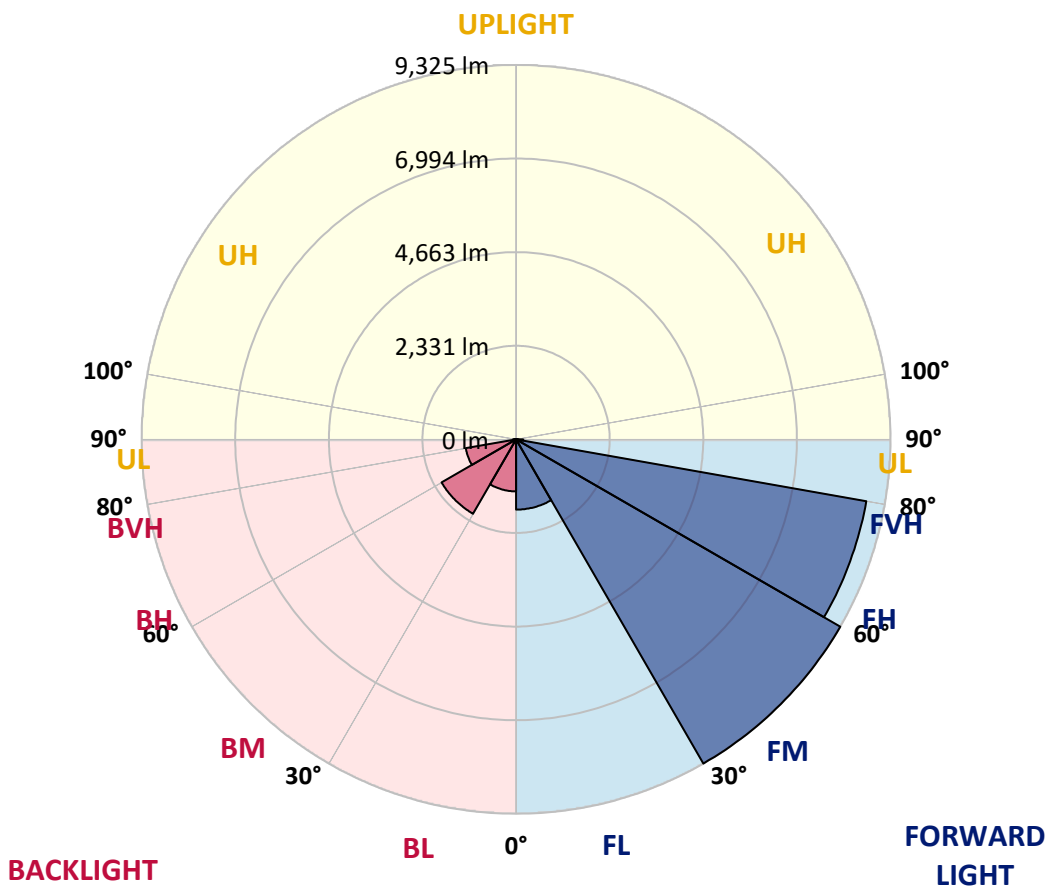
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1749.6	7.0			
FM (30°-60°)	9325.4	37.5			
FH (60°-80°)	8857.8	35.6			G4/12000
FVH (80°-90°)	176.4	0.7			G2/225
BL (0°-30°)	1295.7	5.2	B3/2500		
BM (30°-60°)	2141.0	8.6	B2/2500		
BH (60°-80°)	1272.1	5.1	B3/2500		G3/2500
BVH (80°-90°)	77.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





REPORT NUMBER: P637788

CATALOG NUMBER: GWS-SA4D-740-U-T3R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5
2.5°	3760.4	3739.4	3763.9	3776.2	3807.8	3853.5	3893.9	3895.6	3916.7	3967.6	4016.7
5°	3590.1	3579.6	3586.6	3623.5	3656.9	3714.8	3776.2	3781.5	3841.2	3941.3	4039.6
7.5°	3458.5	3444.4	3470.8	3518.2	3560.3	3625.3	3706.0	3713.0	3797.3	3948.3	4099.3
10°	3268.9	3258.3	3307.5	3370.7	3462.0	3569.1	3676.2	3684.9	3795.5	3993.9	4204.6
12.5°	3186.4	3186.4	3207.4	3267.1	3367.2	3509.4	3670.9	3684.9	3823.6	4064.1	4339.8
15°	3314.5	3323.3	3305.7	3302.2	3342.6	3477.8	3677.9	3699.0	3876.3	4136.1	4473.2
17.5°	3572.6	3581.4	3535.7	3463.7	3423.4	3507.6	3704.3	3727.1	3932.5	4215.1	4617.1
20°	3934.2	3944.8	3844.7	3734.1	3595.4	3593.7	3755.2	3776.2	4004.5	4301.1	4769.9
22.5°	4357.3	4364.3	4237.9	4062.4	3850.0	3753.4	3842.9	3864.0	4097.5	4420.5	4934.9
25°	4847.1	4868.2	4715.5	4460.9	4173.0	3972.9	3988.7	4013.2	4264.3	4580.3	5129.8
27.5°	5370.3	5396.6	5221.1	4940.2	4543.4	4215.1	4176.5	4197.6	4441.6	4678.6	5233.4
30°	5905.7	5925.0	5749.5	5428.2	4941.9	4489.0	4334.5	4346.8	4518.8	4726.0	5338.7
32.5°	6500.9	6485.1	6316.5	5946.1	5401.9	4817.3	4482.0	4478.5	4604.9	4820.8	5489.7
35°	7059.1	7082.0	6902.9	6493.9	5907.5	5222.8	4703.2	4689.1	4787.4	4975.3	5702.1
37.5°	7735.0	7728.0	7513.8	7071.4	6414.9	5610.8	5013.9	4989.3	5024.4	5215.8	5998.8
40°	8217.8	8267.0	8128.3	7715.7	7008.2	6088.3	5377.3	5322.9	5331.7	5512.5	6395.5
42.5°	8612.8	8658.5	8672.5	8409.2	7687.6	6678.2	5830.2	5775.8	5781.1	6037.4	6883.6
45°	8916.5	8978.0	9176.4	9099.1	8453.1	7359.4	6442.9	6386.8	6390.3	6674.7	7473.5
47.5°	9041.2	9107.9	9509.9	9694.3	9265.9	8173.9	7204.9	7122.3	7134.6	7448.9	8147.6
50°	9000.8	9090.3	9634.6	10152.5	9947.1	9002.6	8116.0	8058.1	8010.7	8467.1	8879.7
52.5°	8653.2	8751.5	9622.3	10443.9	10503.6	9785.5	9057.0	9023.6	9013.1	9548.5	9697.8
55°	7629.7	7794.7	9199.2	10521.1	10939.0	10522.9	10077.0	10020.8	10075.2	10707.2	10524.6
57.5°	7062.7	7185.5	8370.6	10435.1	11295.3	11225.1	11095.2	11100.5	11161.9	11966.0	11527.1
60°	6739.6	6883.6	7910.6	10199.9	11637.7	12078.3	12160.8	12160.8	12271.4	13323.0	12545.3
62.5°	6311.3	6457.0	7480.5	9746.9	11953.7	13082.5	13500.3	13495.1	13539.0	14778.4	13540.7
65°	5442.3	5577.4	6616.7	9032.4	12108.2	14188.5	15022.4	15006.6	14918.8	16074.0	14199.1
67.5°	3951.8	4079.9	5068.3	7673.6	11551.7	15080.3	16590.1	16597.2	16072.2	16890.3	14234.2
70°	2605.3	2693.0	3258.3	4984.1	9394.1	14695.9	17246.7	17267.8	16249.6	16381.2	12668.2
72.5°	1625.7	1687.1	2034.7	2972.2	5551.1	11632.4	15561.4	15619.3	14618.6	14395.7	10408.8
75°	1079.7	1121.8	1353.5	1732.7	2568.4	6295.5	11829.0	12015.1	11716.7	11284.8	7252.3
77.5°	649.6	684.7	862.0	1100.7	1137.6	2459.6	6904.7	7385.7	7427.8	5891.7	3037.1
80°	296.7	337.1	475.8	628.5	605.7	856.7	2435.0	2547.3	3005.5	1871.4	958.5
82.5°	175.6	193.1	316.0	312.5	258.1	416.1	876.0	898.9	763.7	684.7	409.0
85°	70.2	82.5	133.4	117.6	94.8	135.2	330.0	345.8	331.8	298.4	151.0
87.5°	0.0	0.0	0.0	0.0	1.8	3.5	29.8	31.6	45.6	82.5	45.6
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°	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5
2.5°	4048.3	4037.8	4090.5	4130.9	4148.4	4166.0	4150.2	4144.9	4144.9	4109.8	4092.2
5°	4092.2	4097.5	4169.5	4202.8	4202.8	4188.8	4146.7	4116.8	4106.3	4060.6	4048.3
7.5°	4174.7	4197.6	4264.3	4262.5	4213.4	4136.1	4030.8	3950.0	3876.3	3844.7	3825.4
10°	4309.9	4339.8	4385.4	4311.7	4174.7	3971.1	3748.1	3572.6	3467.3	3383.0	3383.0
12.5°	4464.4	4492.5	4483.7	4313.4	4030.8	3649.8	3328.6	3126.7	2979.2	2902.0	2902.0
15°	4618.9	4641.7	4546.9	4232.7	3730.6	3223.2	2872.1	2629.8	2501.7	2429.7	2429.7
17.5°	4775.2	4773.4	4573.3	4046.6	3339.1	2751.0	2406.9	2219.0	2175.2	2162.9	2161.1
20°	4926.1	4885.8	4539.9	3735.9	2884.4	2275.2	2057.5	2069.8	2134.8	2162.9	2166.4
22.5°	5096.4	4996.4	4441.6	3339.1	2368.3	1945.2	1959.2	2061.0	2155.8	2198.0	2203.2
25°	5270.2	5091.2	4276.6	2873.9	1936.4	1824.0	1932.9	2047.0	2154.1	2208.5	2213.8
27.5°	5340.4	5091.2	3995.7	2334.9	1706.4	1773.1	1892.5	2003.1	2115.5	2178.7	2191.0
30°	5398.4	5047.3	3602.4	1848.6	1611.6	1724.0	1827.5	1929.4	2040.0	2117.2	2131.3
32.5°	5479.1	5008.6	3126.7	1553.7	1567.7	1676.6	1748.5	1834.6	1934.6	1985.6	1980.3
35°	5573.9	4949.0	2552.6	1413.2	1530.9	1636.2	1687.1	1738.0	1692.4	1690.6	1695.9
37.5°	5709.1	4896.3	2052.3	1350.0	1506.3	1608.1	1650.2	1541.4	1478.2	1451.9	1441.3
40°	5904.0	4875.2	1618.6	1313.2	1502.8	1606.3	1576.5	1408.0	1321.9	1230.7	1228.9
42.5°	6149.8	4859.4	1337.7	1295.6	1515.1	1646.7	1474.7	1320.2	1142.9	1102.5	1099.0
45°	6465.8	4834.8	1197.3	1292.1	1544.9	1678.3	1464.1	1199.1	1077.9	1060.4	1060.4
47.5°	6846.7	4796.2	1134.1	1292.1	1578.3	1664.3	1432.5	1172.7	1048.1	1067.4	1079.7
50°	7283.9	4747.1	1100.7	1288.6	1611.6	1664.3	1365.8	1167.5	1041.1	1141.1	1181.5
52.5°	7750.8	4690.9	1077.9	1274.5	1634.4	1666.0	1369.3	1185.0	1048.1	1158.7	1192.0
55°	8267.0	4682.1	1046.3	1244.7	1641.5	1620.4	1378.1	1223.6	1058.6	1049.8	1051.6
57.5°	8918.3	4787.4	1023.5	1200.8	1613.4	1527.3	1395.7	1251.7	1046.3	1048.1	1060.4
60°	9599.5	4985.8	1042.8	1158.7	1555.4	1439.6	1408.0	1237.7	986.6	958.5	962.1
62.5°	10178.8	5136.8	1058.6	1139.4	1471.2	1362.3	1395.7	1206.1	953.3	946.3	962.1
65°	10421.1	5012.2	1020.0	1099.0	1348.3	1267.5	1369.3	1165.7	925.2	898.9	900.6
67.5°	10152.5	4427.5	944.5	1009.5	1209.6	1146.4	1327.2	1113.0	886.6	855.0	847.9
70°	8672.5	3253.1	814.6	867.3	1041.1	1004.2	1262.3	1044.6	825.1	802.3	786.5
72.5°	6988.9	2303.3	675.9	689.9	816.3	846.2	1149.9	958.5	754.9	689.9	667.1
75°	4864.7	1446.6	563.5	549.5	589.9	646.0	897.1	795.3	651.3	582.8	561.8
77.5°	2092.6	742.6	440.6	433.6	393.2	447.7	688.2	663.6	546.0	467.0	454.7
80°	700.5	430.1	317.8	305.5	261.6	314.2	484.5	530.2	428.4	345.8	324.8
82.5°	351.1	249.3	201.9	182.6	175.6	198.4	286.2	330.0	296.7	238.8	201.9
85°	172.0	142.2	110.6	108.8	91.3	86.0	119.4	140.4	133.4	98.3	93.0
87.5°	63.2	56.2	35.1	28.1	17.6	12.3	7.0	7.0	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)