

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: P637693

Luminaire Tested: GWS-SA4D-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-735-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21911.9 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

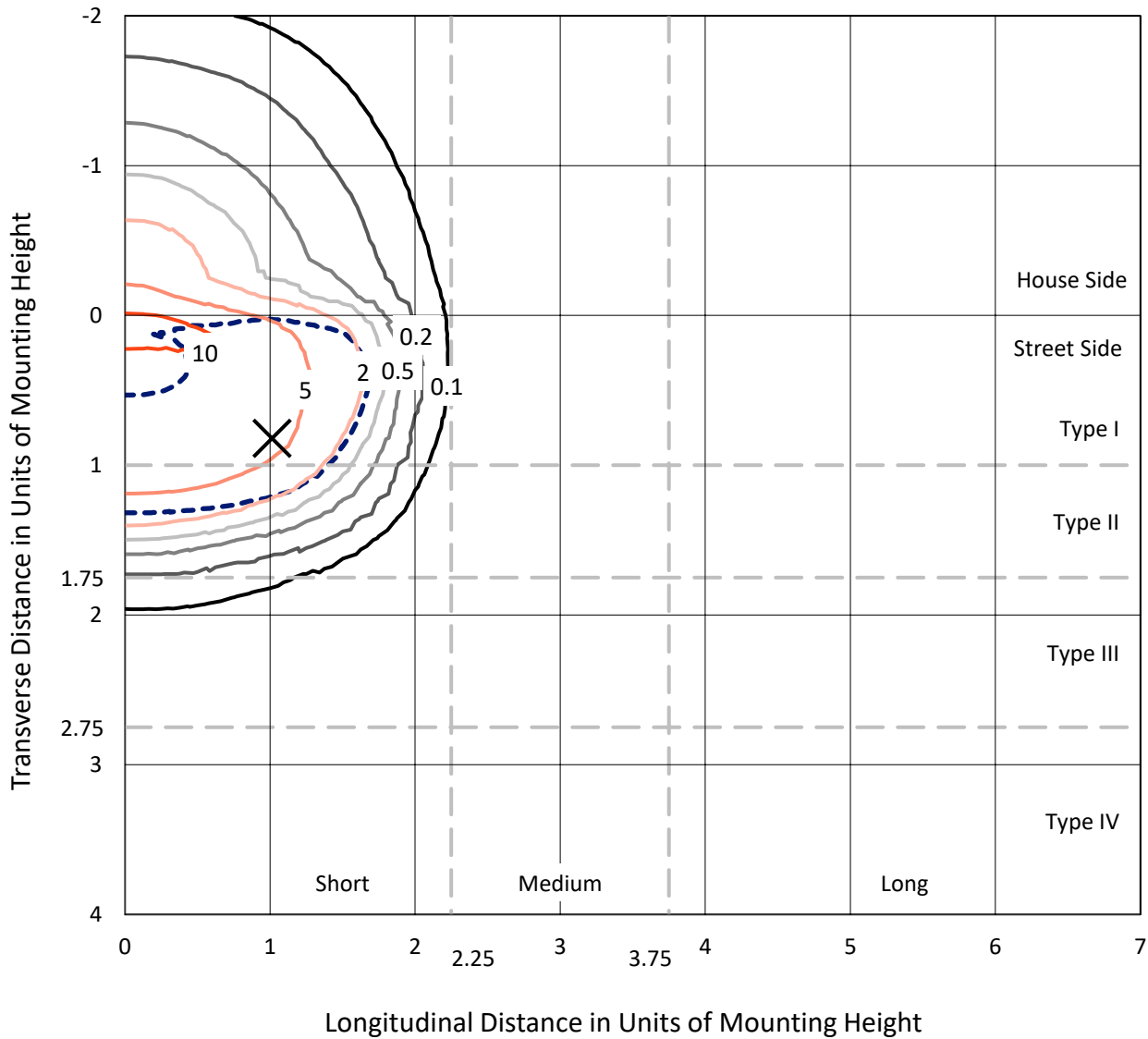
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

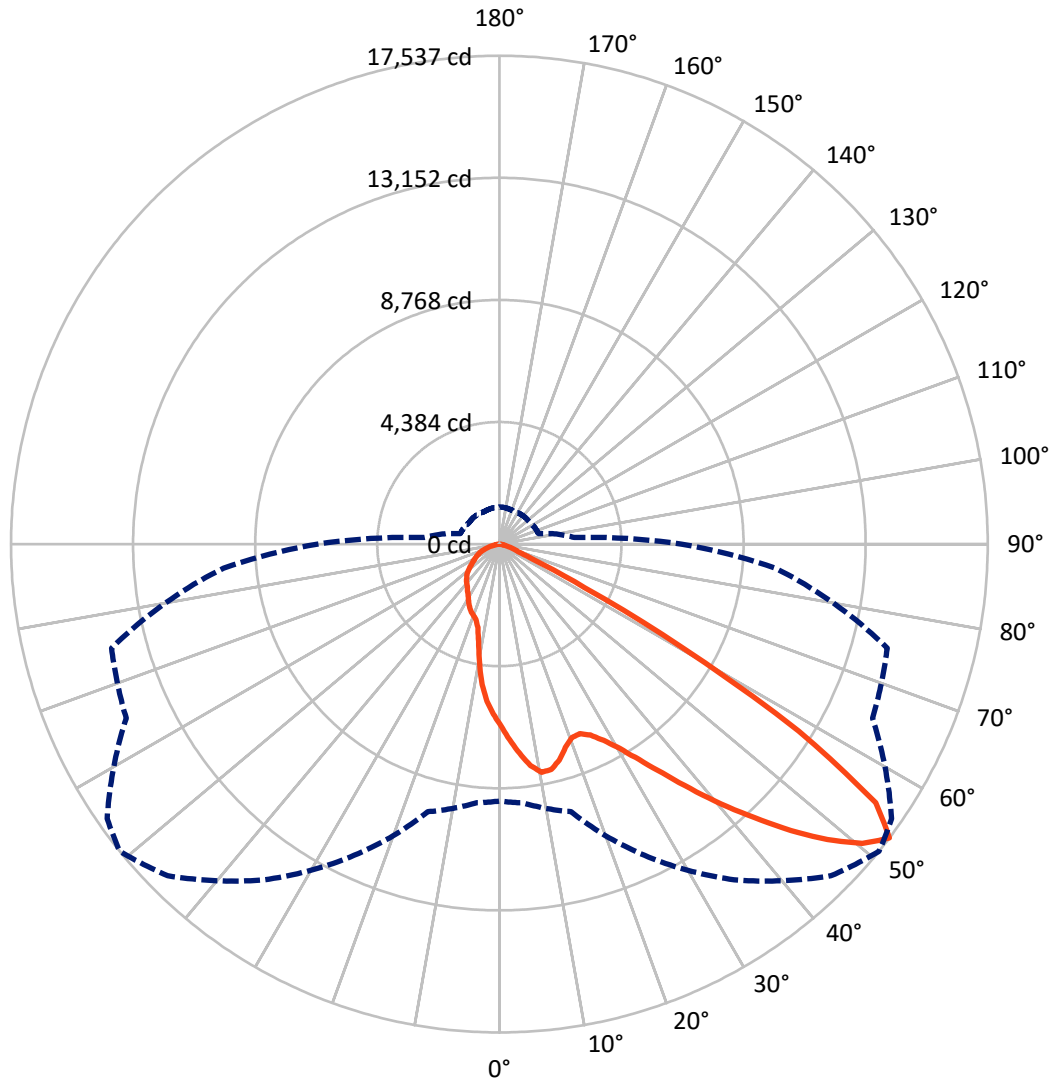
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4269.3	0.0	4269.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	17642.5	0.0	17642.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	21911.9	0.0	21911.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.8	2.8
10°-20°	1581.9	7.2
20°-30°	2572.1	11.7
30°-40°	4076.1	18.6
40°-50°	6147.7	28.1
50°-60°	5318.2	24.3
60°-70°	1205.7	5.5
70°-80°	355.5	1.6
80°-90°	45.8	0.2
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°	21911.9	100.0
0°-180°	21911.9	100.0

Coefficient of Utilization



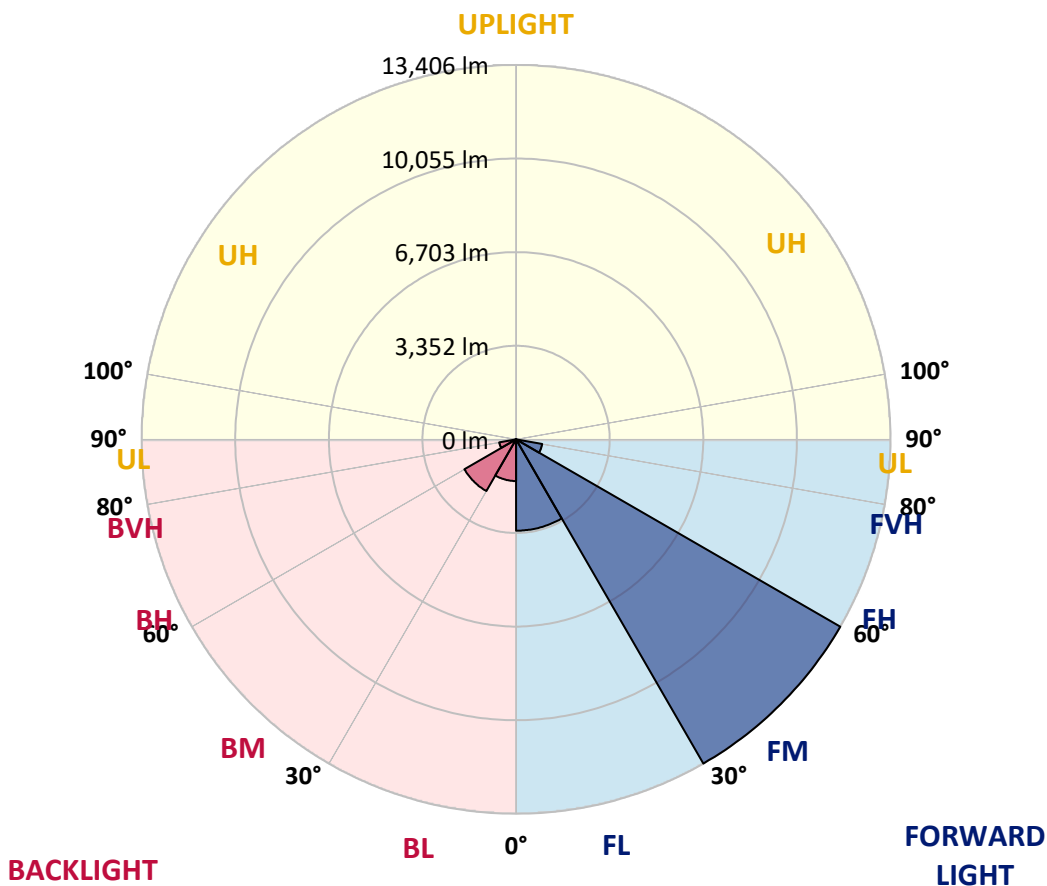
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3270.4	14.9			
FM (30°-60°)	13406.0	61.2			
FH (60°-80°)	948.9	4.3			G1/1800
FVH (80°-90°)	17.3	0.1			G1/100
BL (0°-30°)	1492.4	6.8	B3/2500		
BM (30°-60°)	2136.1	9.7	B2/2500		
BH (60°-80°)	612.3	2.8	B2/1000		G2/1000
BVH (80°-90°)	28.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	6524.3	6524.3	6524.3	6524.3	6524.3	6524.3	6524.3	6524.3	6524.3	6524.3	6524.3
2.5°	7270.5	7312.1	7248.0	7223.8	7184.0	7114.7	7035.1	7012.5	6841.1	6728.6	6602.2
5°	8001.2	8023.7	7971.8	7919.8	7821.2	7698.2	7544.1	7511.2	7199.5	6941.6	6673.2
7.5°	8164.0	8155.3	8200.4	8229.8	8217.7	8169.2	8032.4	7968.3	7596.1	7187.4	6790.9
10°	7519.9	7471.4	7637.6	7835.0	8072.2	8345.8	8330.2	8325.0	8001.2	7518.1	6941.6
12.5°	6666.2	6642.0	6777.1	7024.7	7473.1	8079.1	8306.0	8482.6	8366.6	7833.3	7109.5
15°	6178.0	6169.3	6261.1	6439.4	6796.1	7561.4	8046.2	8396.0	8680.0	8170.9	7287.9
17.5°	6089.7	6094.9	6126.0	6228.2	6484.4	7114.7	7675.7	8164.0	8924.1	8541.5	7511.2
20°	6347.7	6382.3	6328.6	6344.2	6482.7	6953.7	7422.9	7930.2	9079.9	8913.7	7751.9
22.5°	6920.8	6908.7	6790.9	6721.7	6723.4	7052.4	7395.2	7821.2	9182.1	9275.6	7970.1
25°	7570.1	7556.2	7416.0	7261.9	7164.9	7320.8	7594.3	7937.2	9273.9	9606.3	8144.9
27.5°	8337.1	8293.9	8138.0	7940.6	7725.9	7793.5	7978.7	8250.6	9415.9	9931.8	8261.0
30°	9079.9	9130.2	8906.8	8673.0	8446.2	8404.7	8512.0	8757.9	9705.0	10312.8	8399.5
32.5°	10065.2	10047.9	9800.3	9495.5	9171.7	9140.6	9225.4	9450.5	10224.5	10839.1	8610.7
35°	11258.2	11261.6	10910.1	10498.0	10037.5	9954.4	10096.3	10314.5	10998.4	11552.5	8944.9
37.5°	12497.9	12492.7	12186.2	11718.7	11090.2	10972.5	11135.2	11298.0	11966.3	12523.9	9464.3
40°	13367.1	13401.8	13258.0	13012.2	12416.5	12129.1	12272.8	12385.4	13019.1	13666.7	10148.3
42.5°	13860.6	13912.5	13943.7	14090.9	13777.5	13471.0	13419.1	13477.9	13959.3	14728.1	10790.7
45°	13966.2	14035.5	14262.3	14807.7	14928.9	14842.4	14672.7	14530.7	14660.6	15481.3	11211.4
47.5°	13500.5	13621.7	14106.5	15060.5	15768.7	16040.6	15851.8	15635.4	15065.7	15675.2	11168.1
50°	11654.7	11796.7	12889.2	14544.5	15888.2	16878.6	16895.9	16575.6	15017.2	15115.9	10624.4
52.5°	9227.1	9324.1	9949.2	12330.0	14716.0	16844.0	17536.6	17193.7	14783.5	14416.4	9944.0
55°	5514.8	5670.6	6254.2	8134.6	11464.2	14928.9	16404.2	16570.4	14669.2	13829.4	9479.9
57.5°	1861.4	1937.5	2495.1	3592.8	6756.3	10930.9	12674.5	13349.8	13316.9	12932.5	8574.4
60°	886.5	903.8	1016.4	1362.7	2704.6	5712.2	7502.6	8281.7	8991.6	9062.6	5334.7
62.5°	675.3	685.7	742.8	817.3	1087.4	2406.8	3438.7	4034.4	4309.7	3698.5	1942.7
65°	564.5	573.1	616.4	663.2	739.3	1042.4	1319.4	1522.0	1371.3	1068.3	926.3
67.5°	471.0	477.9	510.8	561.0	612.9	697.8	732.4	753.2	789.6	886.5	851.9
70°	368.8	375.7	410.4	453.7	503.9	524.6	557.5	578.3	651.0	775.7	772.2
72.5°	284.0	292.6	311.7	339.4	380.9	401.7	438.1	462.3	503.9	604.3	645.8
75°	207.8	213.0	230.3	238.9	244.1	238.9	275.3	303.0	358.4	396.5	406.9
77.5°	84.8	95.2	91.8	91.8	109.1	131.6	150.6	168.0	206.0	228.6	230.3
80°	34.6	38.1	45.0	50.2	60.6	77.9	90.0	97.0	114.3	128.1	138.5
82.5°	20.8	22.5	26.0	27.7	34.6	45.0	51.9	57.1	71.0	84.8	90.0
85°	10.4	10.4	12.1	13.9	17.3	20.8	24.2	27.7	36.4	45.0	50.2
87.5°	1.7	1.7	1.7	3.5	5.2	6.9	8.7	10.4	12.1	13.9	17.3
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°	6524.3	6524.3	6524.3	6524.3	6524.3	6524.3	6524.3	6524.3	6524.3	6524.3	6524.3
2.5°	6527.7	6434.2	6325.1	6238.6	6138.1	6063.7	5958.1	5892.3	5829.9	5778.0	5739.9
5°	6534.7	6377.1	6150.3	5949.4	5741.6	5544.2	5341.7	5177.2	5030.0	4907.1	4896.7
7.5°	6574.5	6347.7	5992.7	5641.2	5236.0	4844.7	4453.4	4134.8	3892.4	3766.0	3740.0
10°	6642.0	6344.2	5831.7	5270.7	4579.8	3949.5	3485.5	3243.1	3102.8	3052.6	3035.3
12.5°	6713.0	6335.5	5625.6	4747.8	3788.5	3236.2	2981.6	2952.2	2978.2	2981.6	2979.9
15°	6799.6	6330.3	5365.9	4134.8	3210.2	2905.4	2922.8	2985.1	3045.7	3059.5	3059.5
17.5°	6905.2	6318.2	5012.7	3535.7	2848.3	2841.4	2933.1	3016.3	3073.4	3083.8	3083.8
20°	7016.0	6287.1	4578.1	3047.4	2701.1	2801.6	2900.3	2964.3	3004.1	3018.0	3019.7
22.5°	7092.2	6203.9	4077.7	2685.5	2609.4	2725.4	2796.4	2862.2	2862.2	2827.5	2817.1
25°	7107.8	6025.6	3535.7	2437.9	2500.3	2607.6	2680.4	2642.3	2571.3	2543.6	2541.8
27.5°	7050.6	5765.9	3000.7	2261.3	2368.7	2476.0	2463.9	2408.5	2377.3	2349.6	2360.0
30°	6981.4	5454.2	2536.6	2115.9	2216.3	2321.9	2280.4	2261.3	2238.8	2207.7	2214.6
32.5°	6934.6	5106.2	2179.9	2003.3	2114.2	2131.5	2160.9	2159.2	2138.4	2079.5	2076.1
35°	6948.5	4754.7	1941.0	1911.6	2029.3	2022.4	2077.8	2067.4	1923.7	1842.3	1837.1
37.5°	7059.3	4417.0	1800.8	1838.8	1894.3	1937.5	1986.0	1861.4	1811.1	1759.2	1762.7
40°	7270.5	4103.6	1724.6	1799.0	1812.9	1876.9	1764.4	1762.7	1740.2	1693.4	1691.7
42.5°	7509.5	3838.7	1672.6	1780.0	1760.9	1773.0	1653.6	1667.4	1665.7	1636.3	1627.6
45°	7654.9	3594.6	1631.1	1709.0	1714.2	1593.0	1556.6	1572.2	1580.9	1565.3	1563.5
47.5°	7504.3	3314.1	1587.8	1599.9	1644.9	1511.6	1466.6	1468.3	1483.9	1485.6	1478.7
50°	7081.8	3000.7	1535.8	1506.4	1477.0	1426.8	1385.2	1376.5	1392.1	1407.7	1412.9
52.5°	6536.4	2701.1	1449.3	1404.2	1335.0	1335.0	1315.9	1288.2	1309.0	1329.8	1336.7
55°	6136.4	2479.5	1326.3	1276.1	1199.9	1225.9	1222.4	1198.2	1225.9	1241.5	1246.7
57.5°	5317.4	1992.9	1167.0	1151.4	1087.4	1118.5	1125.5	1094.3	1080.5	1083.9	1089.1
60°	3156.5	1286.5	1052.7	1051.0	993.9	1030.2	1051.0	1019.8	978.3	983.5	990.4
62.5°	1416.4	983.5	909.0	902.1	900.4	947.1	969.6	940.2	881.3	886.5	893.5
65°	891.7	850.2	789.6	789.6	817.3	857.1	874.4	850.2	782.6	774.0	780.9
67.5°	827.7	791.3	729.0	716.8	730.7	763.6	765.3	718.6	678.7	671.8	671.8
70°	742.8	715.1	654.5	630.3	625.1	623.3	618.1	606.0	580.1	573.1	576.6
72.5°	614.7	595.6	557.5	531.6	517.7	516.0	495.2	484.8	462.3	458.8	457.1
75°	406.9	412.1	412.1	408.6	396.5	391.3	368.8	358.4	332.4	322.1	320.3
77.5°	240.7	245.9	252.8	254.5	252.8	252.8	232.0	219.9	193.9	180.1	176.6
80°	147.2	150.6	154.1	159.3	152.4	147.2	128.1	116.0	103.9	95.2	93.5
82.5°	95.2	98.7	100.4	103.9	100.4	93.5	77.9	71.0	62.3	55.4	53.7
85°	53.7	55.4	58.9	58.9	53.7	48.5	39.8	34.6	29.4	26.0	26.0
87.5°	19.0	19.0	19.0	20.8	17.3	15.6	10.4	6.9	5.2	5.2	5.2
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)