

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: P639765

Luminaire Tested: GWS-SA5C-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-740-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14935 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

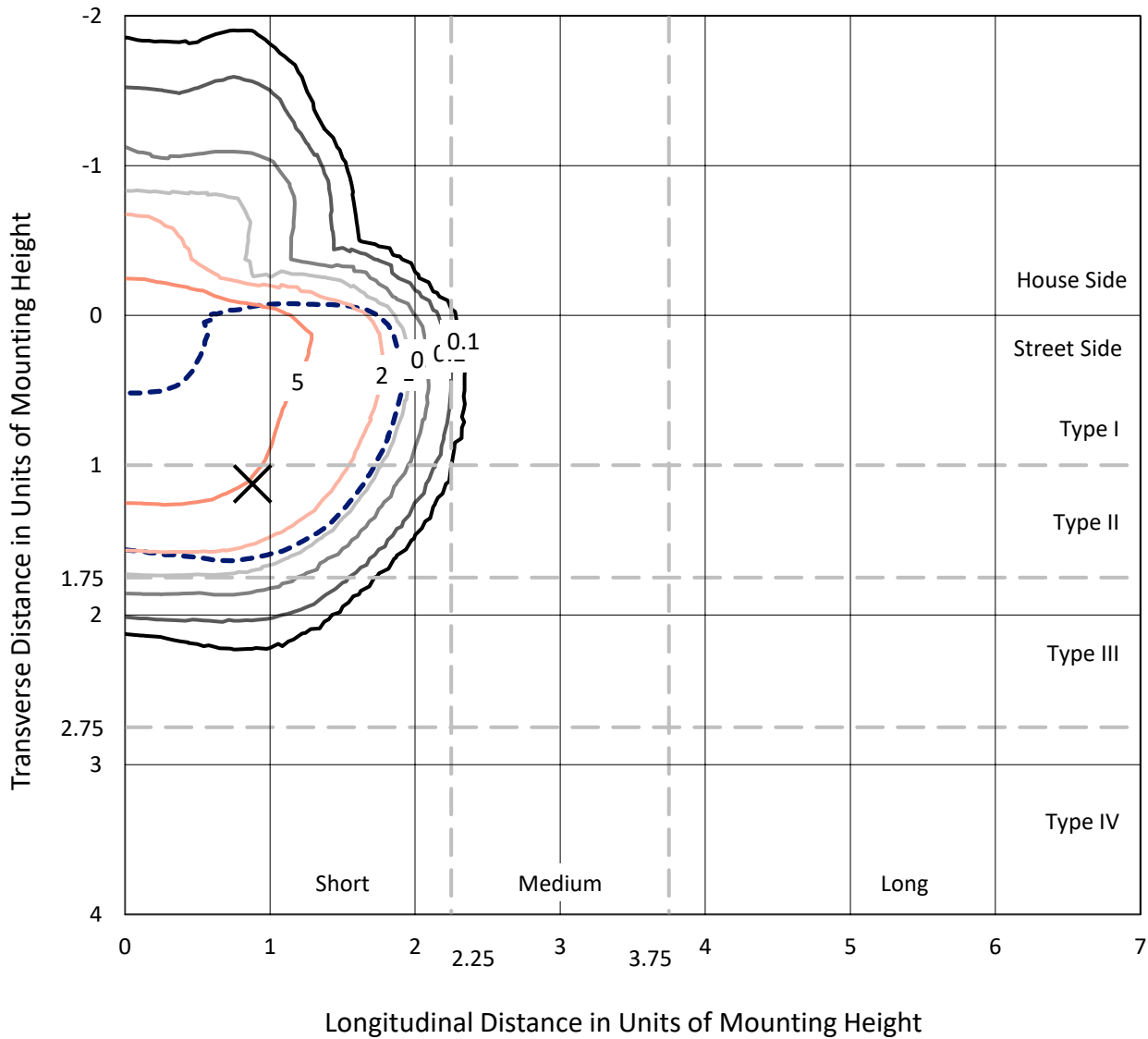
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GWS-SA5C-740-U-T3R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

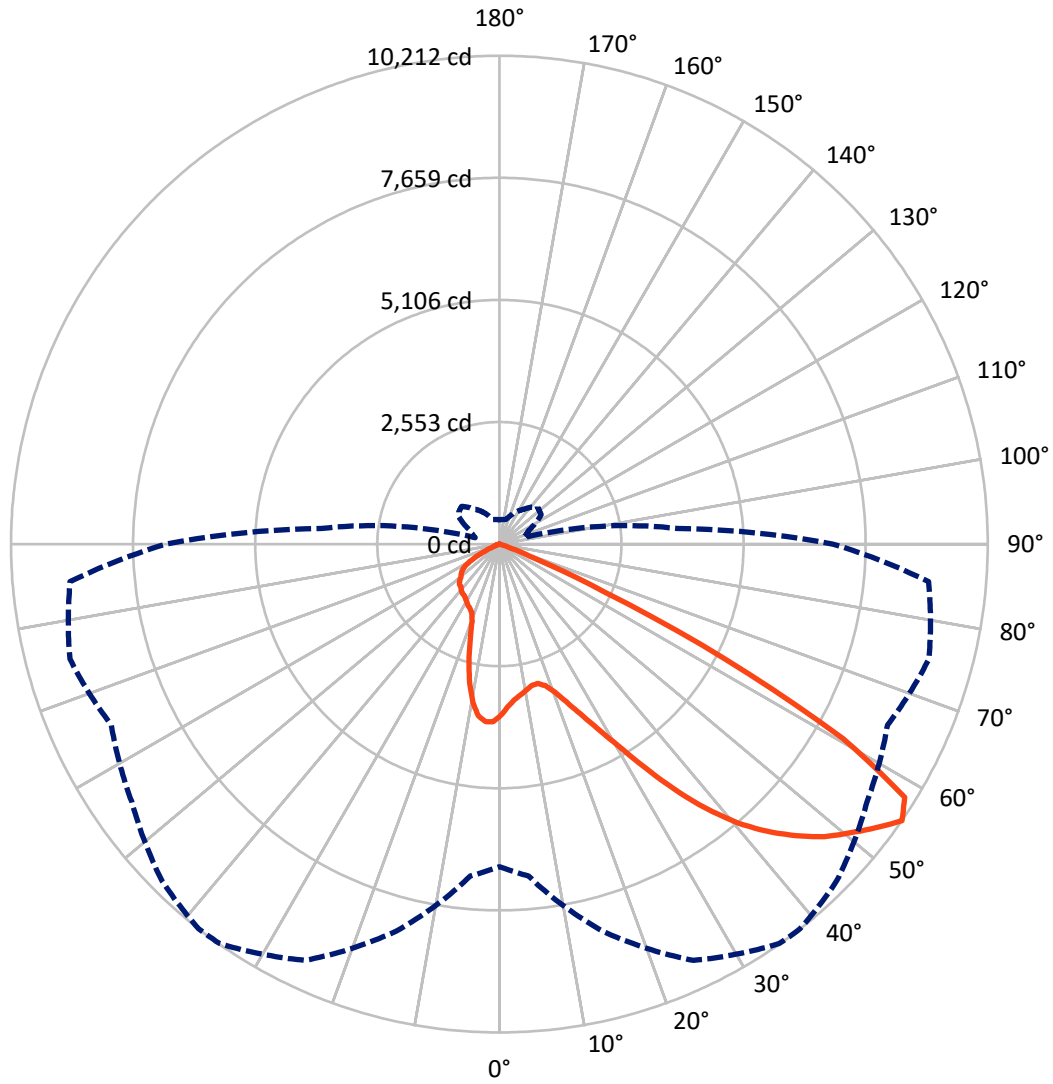
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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CATALOG NUMBER: GWS-SA5C-740-U-T3R-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2909.8	0.0	2909.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	12025.2	0.0	12025.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	14935.0	0.0	14935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.2	2.2
10°-20°	891.5	6.0
20°-30°	1529.9	10.2
30°-40°	2537.5	17.0
40°-50°	3730.2	25.0
50°-60°	4358.8	29.2
60°-70°	1477.5	9.9
70°-80°	75.5	0.5
80°-90°	3.0	0.0
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°	14935.0	100.0
0°-180°	14935.0	100.0

Coefficient of Utilization



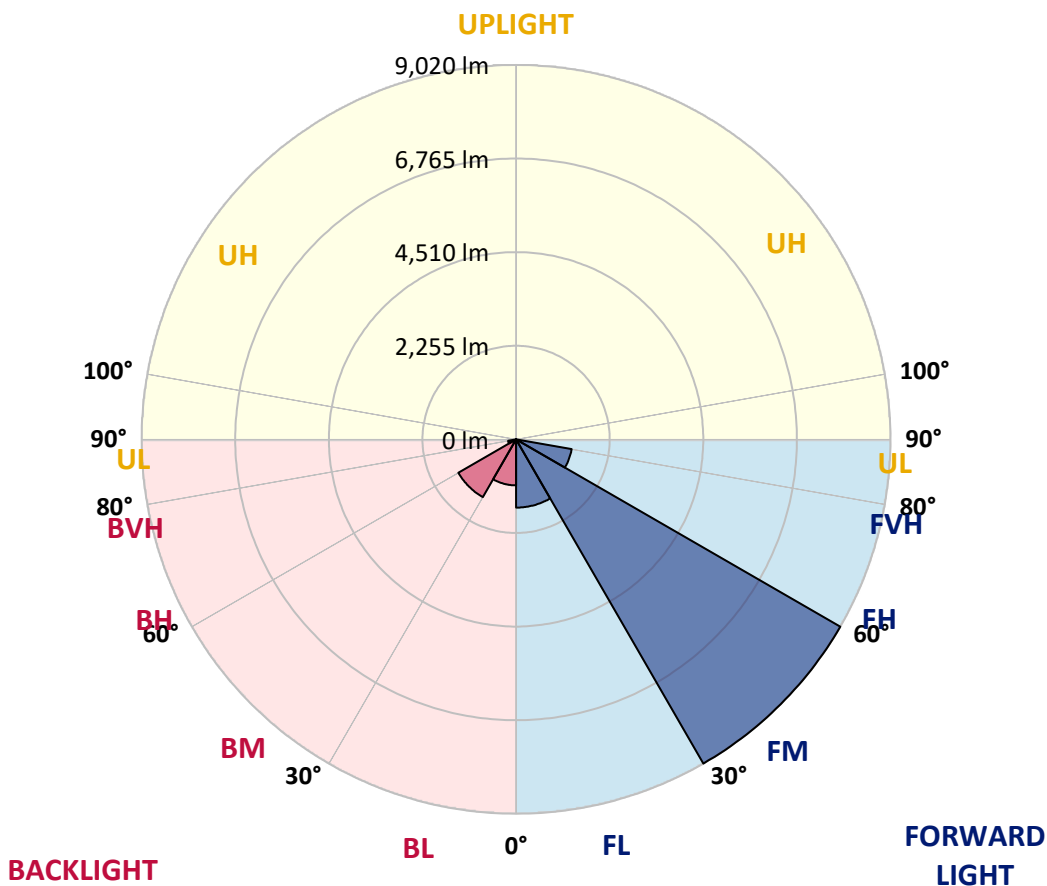
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CATALOG NUMBER: GWS-SA5C-740-U-T3R-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1644.0	11.0			
FM (30°-60°)	9020.3	60.4			
FH (60°-80°)	1359.3	9.1			G1/1800
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	1108.6	7.4	B3/2500		
BM (30°-60°)	1606.1	10.8	B2/2500		
BH (60°-80°)	193.7	1.3	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





REPORT NUMBER: P639765

CATALOG NUMBER: GWS-SA5C-740-U-T3R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3581.5	3581.5	3581.5	3581.5	3581.5	3581.5	3581.5	3581.5	3581.5	3581.5	3581.5
2.5°	3335.7	3328.9	3342.5	3369.8	3395.5	3404.0	3429.6	3465.4	3487.6	3540.6	3583.2
5°	3185.5	3182.1	3195.7	3219.6	3253.8	3265.7	3305.0	3364.7	3424.5	3516.7	3607.1
7.5°	3048.9	3047.2	3067.7	3120.6	3170.1	3185.5	3233.3	3306.7	3386.9	3528.6	3661.8
10°	2869.7	2871.4	2910.6	2985.7	3076.2	3106.9	3183.8	3289.6	3393.7	3576.4	3760.8
12.5°	2811.6	2815.0	2835.5	2893.6	2992.6	3031.8	3139.4	3299.9	3433.0	3644.7	3888.8
15°	2953.3	2953.3	2936.2	2943.1	2987.5	3023.3	3136.0	3334.0	3499.6	3726.6	4015.1
17.5°	3228.2	3217.9	3175.2	3117.2	3101.8	3113.8	3204.3	3407.4	3593.5	3822.2	4158.5
20°	3600.3	3603.7	3520.1	3398.9	3301.6	3299.9	3354.5	3537.1	3728.3	3936.6	4313.9
22.5°	4051.0	4037.3	3926.4	3760.8	3591.8	3578.1	3600.3	3735.2	3923.0	4117.6	4505.1
25°	4573.4	4566.5	4409.5	4187.6	3963.9	3931.5	3931.5	4064.6	4201.2	4375.3	4733.8
27.5°	5119.6	5119.6	4967.7	4711.6	4414.6	4356.6	4348.0	4505.1	4595.6	4629.7	4926.7
30°	5681.3	5674.5	5524.2	5261.3	4943.8	4884.1	4860.2	4976.2	5041.1	4938.7	5167.4
32.5°	6251.5	6263.4	6111.5	5867.4	5584.0	5544.7	5471.3	5471.3	5524.2	5380.8	5546.4
35°	6864.3	6860.9	6741.4	6575.8	6333.4	6289.0	6167.8	5978.3	6058.6	5995.4	6070.5
37.5°	7405.5	7431.1	7373.0	7250.1	7053.8	7009.4	6809.7	6466.6	6528.0	6627.0	6693.6
40°	7955.2	7975.6	8033.7	7994.4	7746.9	7664.9	7309.9	6746.5	6814.8	7154.5	7345.7
42.5°	8494.6	8504.8	8622.6	8687.5	8356.3	8212.9	7688.8	6917.2	6988.9	7567.6	7902.2
45°	8837.7	8859.9	9054.5	9252.6	8894.1	8697.8	8018.3	7135.7	7166.5	7854.4	8313.7
47.5°	8824.1	8875.3	9240.6	9600.8	9356.7	9145.0	8414.4	7485.7	7434.5	8124.2	8585.1
50°	8549.2	8610.7	9134.8	9706.7	9689.6	9493.3	8854.8	7992.7	7832.2	8363.2	8619.2
52.5°	7979.1	8156.6	8948.7	9720.3	9957.6	9858.6	9399.4	8675.6	8370.0	8706.3	8673.9
55°	6746.5	6965.0	8383.6	9604.2	10200.0	10212.0	9971.3	9387.4	8953.8	9296.9	9010.2
57.5°	5121.3	5295.5	6452.9	8549.2	9798.8	9995.2	10193.2	9763.0	9314.0	9699.8	9088.7
60°	3086.5	3287.9	4040.7	6273.6	7914.2	8248.8	9025.5	8941.9	8400.7	8566.3	7453.3
62.5°	1251.3	1357.2	1865.9	3456.9	4981.4	5293.8	6038.1	6164.4	6031.2	5862.2	4520.4
65°	457.5	500.2	747.7	1428.9	2290.9	2405.3	2798.0	3021.6	3206.0	2729.7	1681.5
67.5°	283.4	310.7	486.5	734.1	833.1	775.0	788.7	940.6	897.9	554.8	300.5
70°	210.0	232.2	380.7	508.7	336.3	259.5	175.8	187.8	169.0	148.5	146.8
72.5°	145.1	165.6	285.1	300.5	129.7	92.2	64.9	90.5	102.4	100.7	104.1
75°	95.6	111.0	179.2	117.8	32.4	25.6	22.2	47.8	61.5	61.5	63.2
77.5°	56.3	64.9	63.2	23.9	6.8	6.8	5.1	8.5	13.7	15.4	18.8
80°	6.8	5.1	3.4	3.4	3.4	3.4	3.4	3.4	5.1	5.1	5.1
82.5°	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4	5.1	5.1
85°	0.0	0.0	1.7	1.7	3.4	3.4	3.4	3.4	3.4	5.1	5.1
87.5°	0.0	0.0	1.7	1.7	3.4	3.4	3.4	3.4	3.4	5.1	5.1
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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CATALOG NUMBER: GWS-SA5C-740-U-T3R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3581.5	3581.5	3581.5	3581.5	3581.5	3581.5	3581.5	3581.5	3581.5	3581.5	3581.5
2.5°	3615.7	3603.7	3653.2	3689.1	3718.1	3731.8	3713.0	3711.3	3711.3	3673.7	3663.5
5°	3658.3	3663.5	3733.5	3764.2	3769.3	3752.2	3709.6	3680.5	3663.5	3624.2	3602.0
7.5°	3740.3	3757.4	3823.9	3818.8	3772.7	3694.2	3581.5	3494.5	3438.1	3376.7	3339.1
10°	3858.1	3890.5	3931.5	3859.8	3713.0	3513.2	3281.1	3115.5	3016.5	2946.5	2903.8
12.5°	4001.5	4033.9	4020.3	3851.3	3545.7	3188.9	2890.1	2651.1	2536.8	2473.6	2429.2
15°	4146.6	4167.1	4078.3	3748.8	3250.3	2770.6	2437.8	2200.5	2060.5	2009.3	1971.7
17.5°	4295.1	4290.0	4088.5	3547.4	2856.0	2299.5	1971.7	1809.5	1770.3	1761.7	1758.3
20°	4450.4	4404.4	4047.6	3258.9	2381.4	1833.4	1647.4	1657.6	1729.3	1763.4	1770.3
22.5°	4628.0	4511.9	3945.1	2868.0	1896.6	1527.9	1546.6	1647.4	1744.7	1790.8	1797.6
25°	4817.5	4610.9	3774.4	2366.1	1495.4	1405.0	1515.9	1632.0	1736.1	1792.5	1799.3
27.5°	4942.1	4634.8	3494.5	1860.8	1283.8	1357.2	1474.9	1585.9	1693.5	1754.9	1763.4
30°	5077.0	4624.6	3113.8	1434.0	1212.1	1316.2	1418.6	1519.3	1618.3	1686.6	1693.5
32.5°	5275.0	4617.7	2649.4	1164.3	1183.0	1283.8	1358.9	1442.5	1510.8	1550.1	1544.9
35°	5534.5	4609.2	2108.3	1049.9	1166.0	1258.1	1317.9	1357.2	1282.0	1258.1	1263.3
37.5°	5867.4	4629.7	1652.5	1002.1	1160.8	1251.3	1302.5	1189.9	1073.8	1029.4	1022.6
40°	6236.1	4682.6	1259.9	983.3	1177.9	1268.4	1244.5	1058.4	915.0	828.0	809.2
42.5°	6606.5	4740.7	997.0	976.5	1206.9	1316.2	1148.9	962.8	747.7	698.2	691.4
45°	6881.4	4730.4	862.1	964.5	1232.5	1343.5	1123.3	826.2	667.5	645.3	647.0
47.5°	7019.7	4617.7	788.7	937.2	1242.8	1316.2	1060.1	769.9	612.9	636.8	657.2
50°	6946.3	4325.8	720.4	884.3	1220.6	1280.3	959.4	727.2	585.5	684.6	730.6
52.5°	6857.5	3967.3	645.3	802.3	1167.7	1230.8	920.1	715.3	568.5	660.7	694.8
55°	6975.3	3740.3	522.4	676.0	1063.5	1114.7	889.4	713.6	529.2	513.8	508.7
57.5°	6809.7	3287.9	373.9	486.5	816.0	882.6	867.2	701.6	469.5	467.7	474.6
60°	5263.0	2005.9	256.1	309.0	500.2	563.3	787.0	670.9	404.6	372.2	373.9
62.5°	2990.9	853.6	175.8	191.2	256.1	303.9	600.9	609.4	373.9	355.1	373.9
65°	1041.3	305.6	136.6	128.0	141.7	162.2	344.8	471.2	339.7	307.3	310.7
67.5°	215.1	151.9	121.2	105.8	105.8	105.8	175.8	293.6	280.0	244.1	247.5
70°	136.6	129.7	105.8	90.5	87.1	80.2	100.7	162.2	192.9	177.5	179.2
72.5°	100.7	99.0	83.6	73.4	64.9	58.0	63.2	80.2	99.0	102.4	104.1
75°	61.5	63.2	54.6	46.1	41.0	35.8	37.6	37.6	37.6	34.1	37.6
77.5°	18.8	20.5	17.1	13.7	11.9	11.9	11.9	10.2	8.5	5.1	5.1
80°	5.1	5.1	5.1	5.1	5.1	3.4	3.4	1.7	1.7	0.0	0.0
82.5°	5.1	5.1	5.1	5.1	3.4	3.4	1.7	1.7	0.0	0.0	0.0
85°	5.1	5.1	5.1	5.1	3.4	3.4	1.7	1.7	0.0	0.0	0.0
87.5°	5.1	5.1	5.1	5.1	3.4	3.4	1.7	1.7	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)