

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: P637840

Luminaire Tested: GWS-SA4D-750-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637840
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-SA4D-750-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15711.2 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

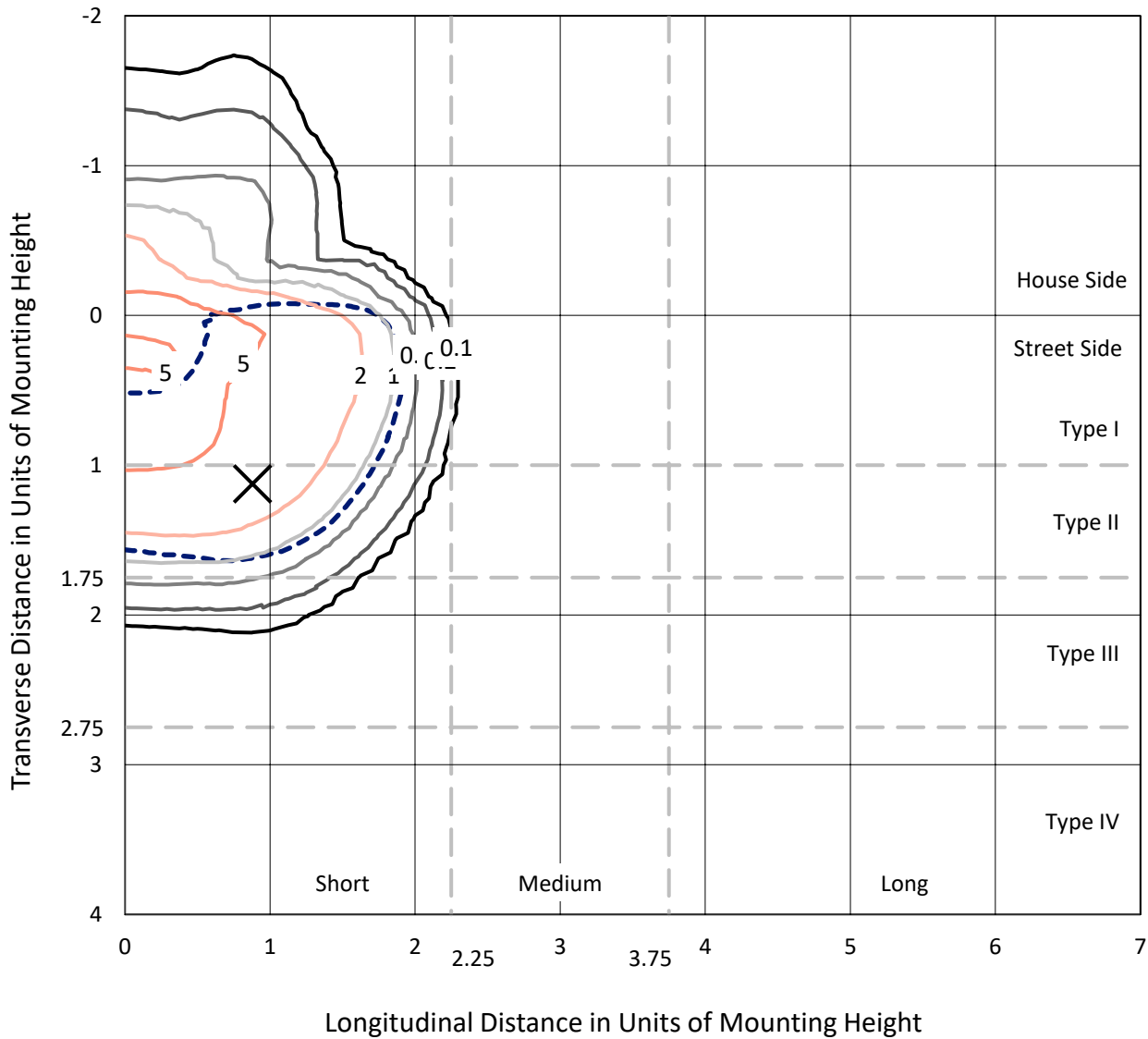
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

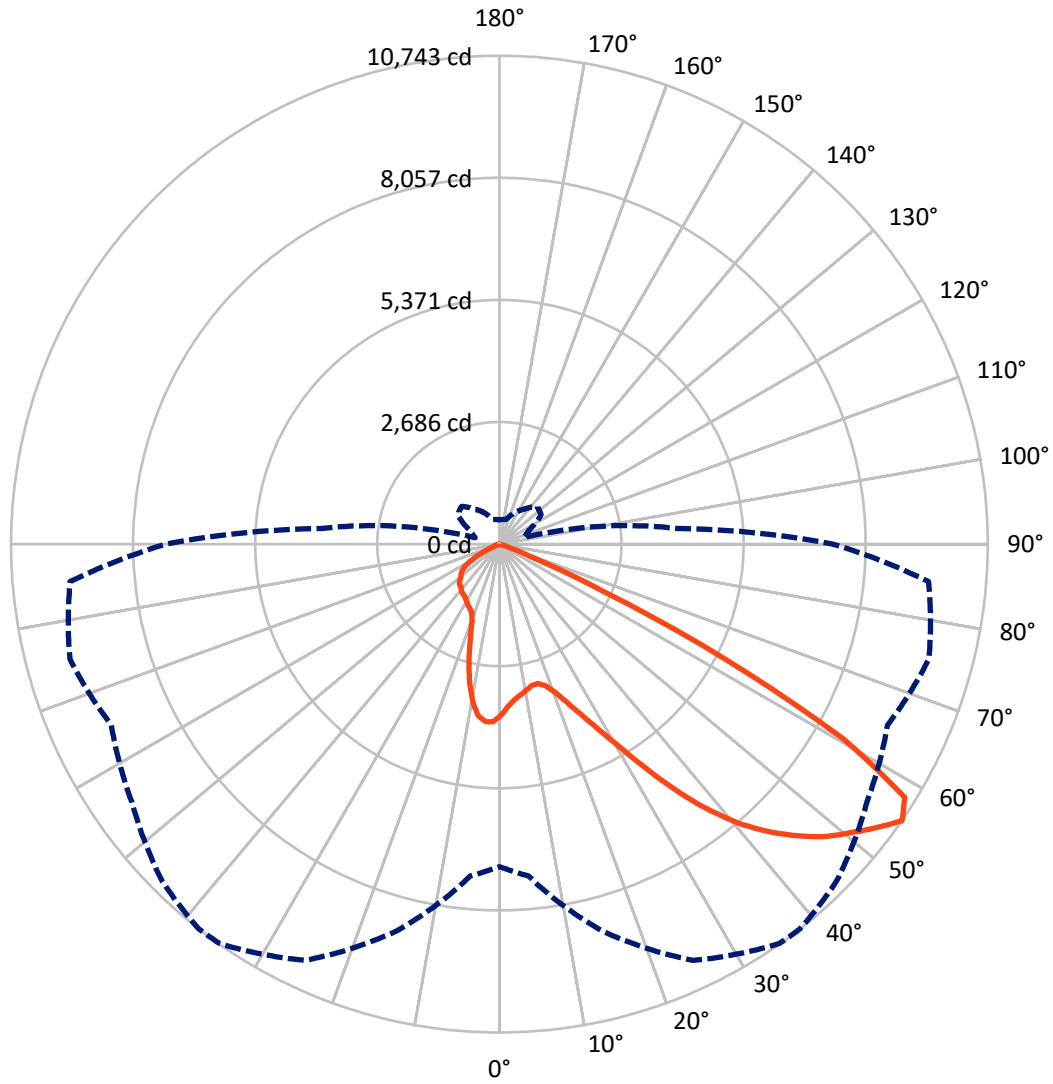
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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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	3061.0	0.0	3061.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	12650.2	0.0	12650.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	15711.2	0.0	15711.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.4	2.2
10°-20°	937.9	6.0
20°-30°	1609.4	10.2
30°-40°	2669.3	17.0
40°-50°	3924.0	25.0
50°-60°	4585.3	29.2
60°-70°	1554.3	9.9
70°-80°	79.5	0.5
80°-90°	3.1	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°	15711.2	100.0
0°-180°	15711.2	100.0

Coefficient of Utilization



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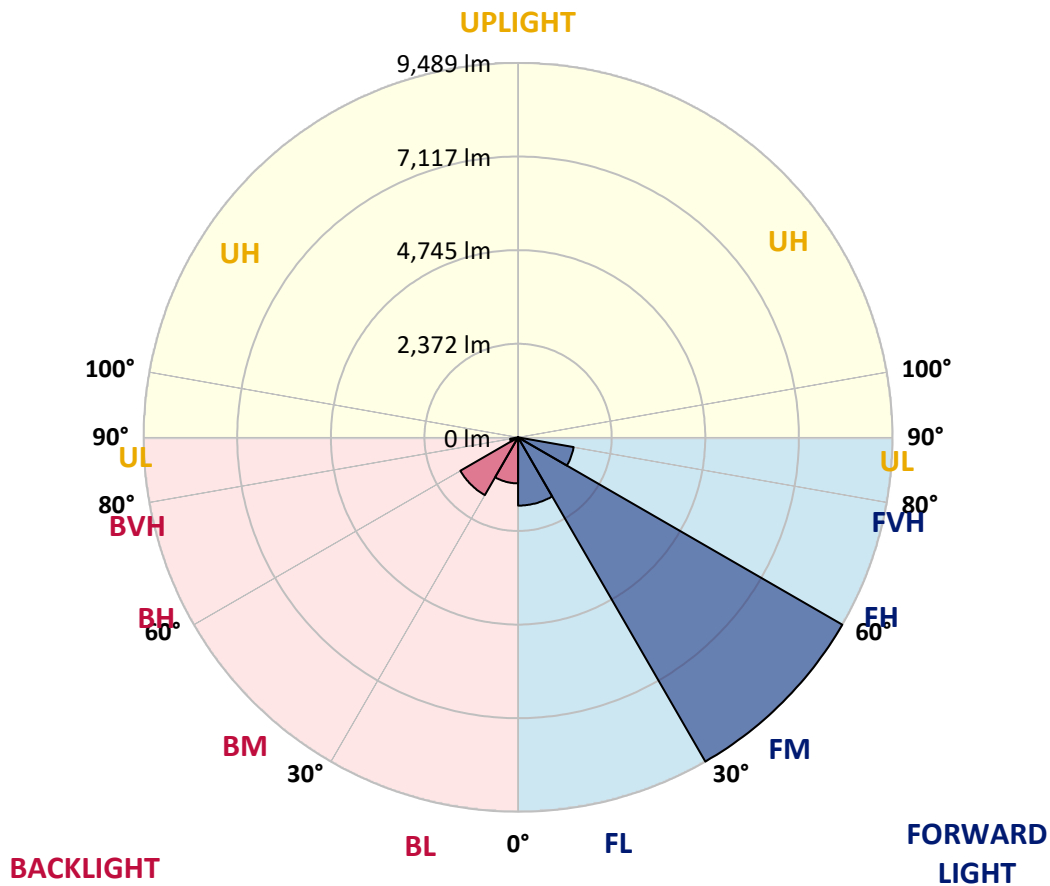
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1729.4	11.0			
FM (30°-60°)	9489.1	60.4			
FH (60°-80°)	1430.0	9.1			G1/1800
FVH (80°-90°)	1.7	0.0			G0/10
BL (0°-30°)	1166.2	7.4	B3/2500		
BM (30°-60°)	1689.6	10.8	B2/2500		
BH (60°-80°)	203.8	1.3	B1/500		G1/500
BVH (80°-90°)	1.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3767.7	3767.7	3767.7	3767.7	3767.7	3767.7	3767.7	3767.7	3767.7	3767.7	3767.7
2.5°	3509.1	3501.9	3516.2	3545.0	3571.9	3580.9	3607.8	3645.5	3668.9	3724.6	3769.5
5°	3351.0	3347.4	3361.8	3386.9	3422.9	3435.4	3476.7	3539.6	3602.4	3699.4	3794.6
7.5°	3207.4	3205.6	3227.1	3282.8	3334.9	3351.0	3401.3	3478.5	3562.9	3712.0	3852.1
10°	3018.8	3020.6	3061.9	3140.9	3236.1	3268.4	3349.2	3460.6	3570.1	3762.3	3956.2
12.5°	2957.7	2961.3	2982.9	3043.9	3148.1	3189.4	3302.5	3471.4	3611.4	3834.1	4090.9
15°	3106.8	3106.8	3088.8	3096.0	3142.7	3180.4	3299.0	3507.3	3681.5	3920.3	4223.8
17.5°	3395.9	3385.2	3340.3	3279.2	3263.0	3275.6	3370.8	3584.5	3780.2	4020.9	4374.7
20°	3787.4	3791.0	3703.0	3575.5	3473.1	3471.4	3528.8	3721.0	3922.1	4141.2	4538.1
22.5°	4261.5	4247.2	4130.4	3956.2	3778.4	3764.1	3787.4	3929.3	4126.8	4331.6	4739.2
25°	4811.0	4803.9	4638.6	4405.2	4169.9	4135.8	4135.8	4275.9	4419.6	4602.7	4979.9
27.5°	5385.7	5385.7	5225.9	4956.5	4644.0	4583.0	4574.0	4739.2	4834.4	4870.3	5182.8
30°	5976.5	5969.4	5811.3	5534.8	5200.7	5137.9	5112.7	5234.9	5303.1	5195.4	5436.0
32.5°	6576.4	6588.9	6429.1	6172.3	5874.2	5832.9	5755.7	5755.7	5811.3	5660.5	5834.7
35°	7221.1	7217.5	7091.8	6917.6	6662.6	6615.9	6488.4	6289.0	6373.4	6307.0	6386.0
37.5°	7790.3	7817.3	7756.2	7626.9	7420.4	7373.7	7163.6	6802.6	6867.3	6971.4	7041.5
40°	8368.6	8390.2	8451.2	8409.9	8149.5	8063.3	7689.8	7097.1	7169.0	7526.4	7727.5
42.5°	8936.1	8946.9	9070.8	9139.0	8790.6	8639.8	8088.4	7276.7	7352.2	7960.9	8312.9
45°	9297.0	9320.4	9525.1	9733.4	9356.3	9149.8	8435.0	7506.6	7538.9	8262.6	8745.7
47.5°	9282.7	9336.6	9720.9	10099.8	9843.0	9620.3	8851.7	7874.7	7820.9	8546.4	9031.3
50°	8993.6	9058.2	9609.5	10211.1	10193.2	9986.6	9315.0	8408.1	8239.3	8797.8	9067.2
52.5°	8393.7	8580.5	9413.8	10225.5	10475.1	10371.0	9887.9	9126.4	8805.0	9158.8	9124.6
55°	7097.1	7327.0	8819.4	10103.4	10730.1	10742.7	10489.5	9875.3	9419.2	9780.1	9478.4
57.5°	5387.5	5570.7	6788.3	8993.6	10308.1	10514.6	10722.9	10270.4	9798.1	10203.9	9561.0
60°	3246.9	3458.8	4250.7	6599.7	8325.5	8677.5	9494.6	9406.6	8837.3	9011.5	7840.6
62.5°	1316.3	1427.7	1962.8	3636.6	5240.3	5568.9	6351.9	6484.8	6344.7	6166.9	4755.4
65°	481.3	526.2	786.6	1503.1	2410.0	2530.3	2943.4	3178.6	3372.6	2871.5	1768.9
67.5°	298.1	326.8	511.8	772.2	876.4	815.3	829.7	989.5	944.6	583.6	316.1
70°	220.9	244.2	400.5	535.2	353.8	273.0	185.0	197.5	177.8	156.2	154.4
72.5°	152.6	174.2	299.9	316.1	136.5	97.0	68.2	95.2	107.8	106.0	109.5
75°	100.6	116.7	188.6	123.9	34.1	26.9	23.3	50.3	64.7	64.7	66.4
77.5°	59.3	68.2	66.4	25.1	7.2	7.2	5.4	9.0	14.4	16.2	19.8
80°	7.2	5.4	3.6	3.6	3.6	3.6	3.6	3.6	5.4	5.4	5.4
82.5°	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6	5.4	5.4
85°	0.0	0.0	1.8	1.8	3.6	3.6	3.6	3.6	3.6	5.4	5.4
87.5°	0.0	0.0	1.8	1.8	3.6	3.6	3.6	3.6	3.6	5.4	5.4
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°	3767.7	3767.7	3767.7	3767.7	3767.7	3767.7	3767.7	3767.7	3767.7	3767.7	3767.7
2.5°	3803.6	3791.0	3843.1	3880.8	3911.3	3925.7	3905.9	3904.1	3904.1	3864.6	3853.9
5°	3848.5	3853.9	3927.5	3959.8	3965.2	3947.2	3902.4	3871.8	3853.9	3812.6	3789.2
7.5°	3934.7	3952.6	4022.7	4017.3	3968.8	3886.2	3767.7	3676.1	3616.8	3552.2	3512.7
10°	4058.6	4092.7	4135.8	4060.4	3905.9	3695.8	3451.6	3277.4	3173.2	3099.6	3054.7
12.5°	4209.4	4243.6	4229.2	4051.4	3730.0	3354.6	3040.4	2788.9	2668.6	2602.2	2555.5
15°	4362.1	4383.6	4290.3	3943.7	3419.3	2914.6	2564.5	2314.8	2167.6	2113.7	2074.2
17.5°	4518.3	4512.9	4301.0	3731.7	3004.4	2419.0	2074.2	1903.6	1862.3	1853.3	1849.7
20°	4681.7	4633.3	4257.9	3428.3	2505.2	1928.7	1733.0	1743.8	1819.2	1855.1	1862.3
22.5°	4868.5	4746.4	4150.2	3017.0	1995.2	1607.3	1627.0	1733.0	1835.3	1883.8	1891.0
25°	5067.9	4850.6	3970.6	2489.0	1573.2	1478.0	1594.7	1716.8	1826.4	1885.6	1892.8
27.5°	5198.9	4875.7	3676.1	1957.5	1350.5	1427.7	1551.6	1668.3	1781.5	1846.1	1855.1
30°	5340.8	4864.9	3275.6	1508.5	1275.0	1384.6	1492.3	1598.3	1702.5	1774.3	1781.5
32.5°	5549.1	4857.7	2787.1	1224.8	1244.5	1350.5	1429.5	1517.5	1589.3	1630.6	1625.2
35°	5822.1	4848.8	2217.9	1104.4	1226.6	1323.5	1386.4	1427.7	1348.7	1323.5	1328.9
37.5°	6172.3	4870.3	1738.4	1054.2	1221.2	1316.3	1370.2	1251.7	1129.6	1082.9	1075.7
40°	6560.2	4926.0	1325.3	1034.4	1239.1	1334.3	1309.2	1113.4	962.6	871.0	851.2
42.5°	6949.9	4987.0	1048.8	1027.2	1269.7	1384.6	1208.6	1012.9	786.6	734.5	727.3
45°	7239.0	4976.3	906.9	1014.6	1296.6	1413.3	1181.7	869.2	702.2	678.8	680.6
47.5°	7384.5	4857.7	829.7	985.9	1307.4	1384.6	1115.2	809.9	644.7	669.8	691.4
50°	7307.3	4550.7	757.8	930.2	1284.0	1346.9	1009.3	765.0	616.0	720.1	768.6
52.5°	7213.9	4173.5	678.8	844.0	1228.4	1294.8	968.0	752.5	598.0	695.0	730.9
55°	7337.8	3934.7	549.5	711.2	1118.8	1172.7	935.6	750.7	556.7	540.5	535.2
57.5°	7163.6	3458.8	393.3	511.8	858.4	928.4	912.3	738.1	493.9	492.1	499.2
60°	5536.6	2110.1	269.4	325.0	526.2	592.6	827.9	705.8	425.6	391.5	393.3
62.5°	3146.3	897.9	185.0	201.1	269.4	319.7	632.1	641.1	393.3	373.5	393.3
65°	1095.5	321.5	143.7	134.7	149.1	170.6	362.8	495.7	357.4	323.3	326.8
67.5°	226.3	159.8	127.5	111.3	111.3	111.3	185.0	308.9	294.5	256.8	260.4
70°	143.7	136.5	111.3	95.2	91.6	84.4	106.0	170.6	202.9	186.8	188.6
72.5°	106.0	104.2	88.0	77.2	68.2	61.1	66.4	84.4	104.2	107.8	109.5
75°	64.7	66.4	57.5	48.5	43.1	37.7	39.5	39.5	39.5	35.9	39.5
77.5°	19.8	21.6	18.0	14.4	12.6	12.6	12.6	10.8	9.0	5.4	5.4
80°	5.4	5.4	5.4	5.4	5.4	3.6	3.6	1.8	1.8	0.0	0.0
82.5°	5.4	5.4	5.4	5.4	3.6	3.6	1.8	1.8	0.0	0.0	0.0
85°	5.4	5.4	5.4	5.4	3.6	3.6	1.8	1.8	0.0	0.0	0.0
87.5°	5.4	5.4	5.4	5.4	3.6	3.6	1.8	1.8	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)