

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: P643218

Luminaire Tested: GWS-SA6E-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-740-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26590.1 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

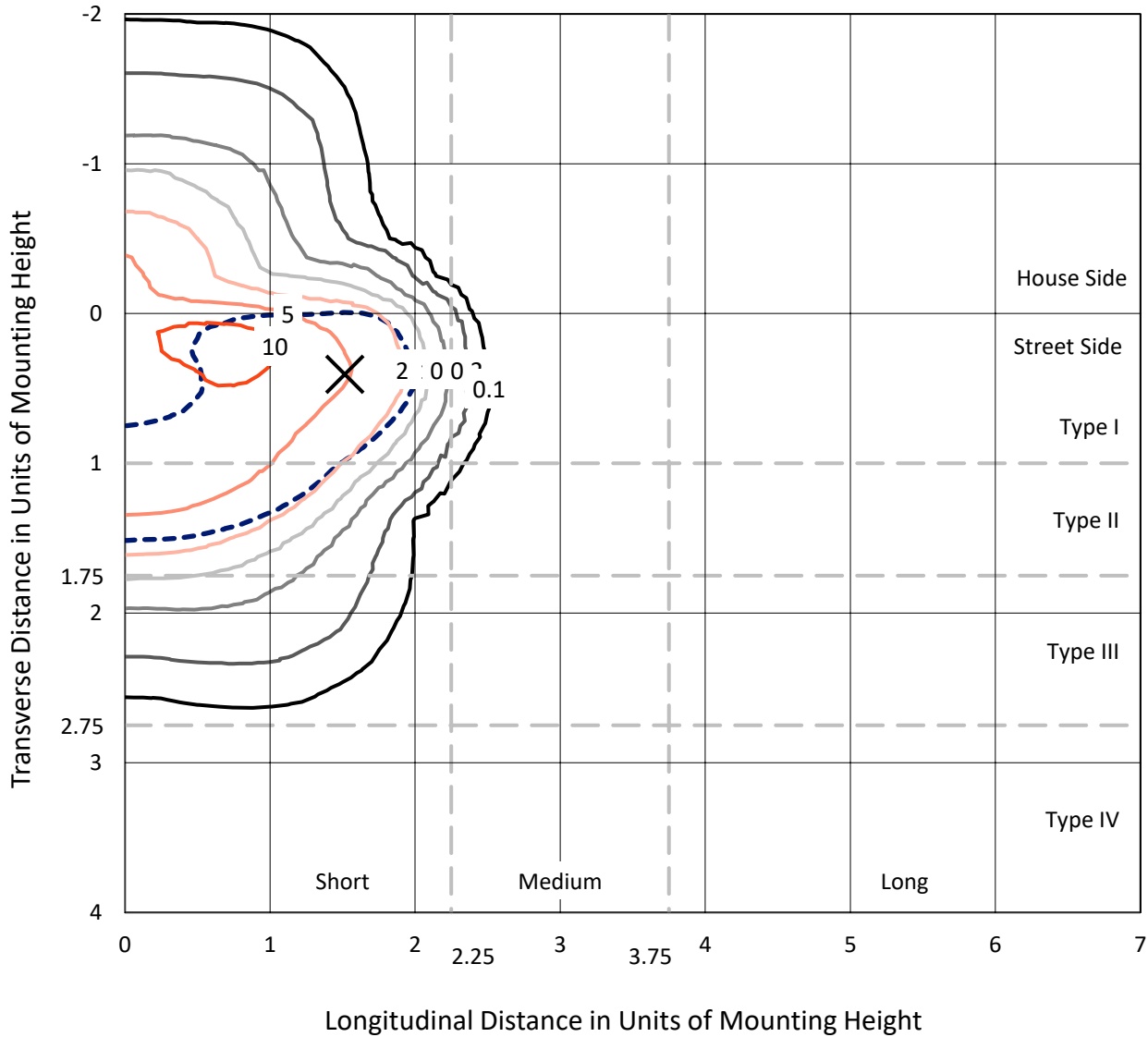
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

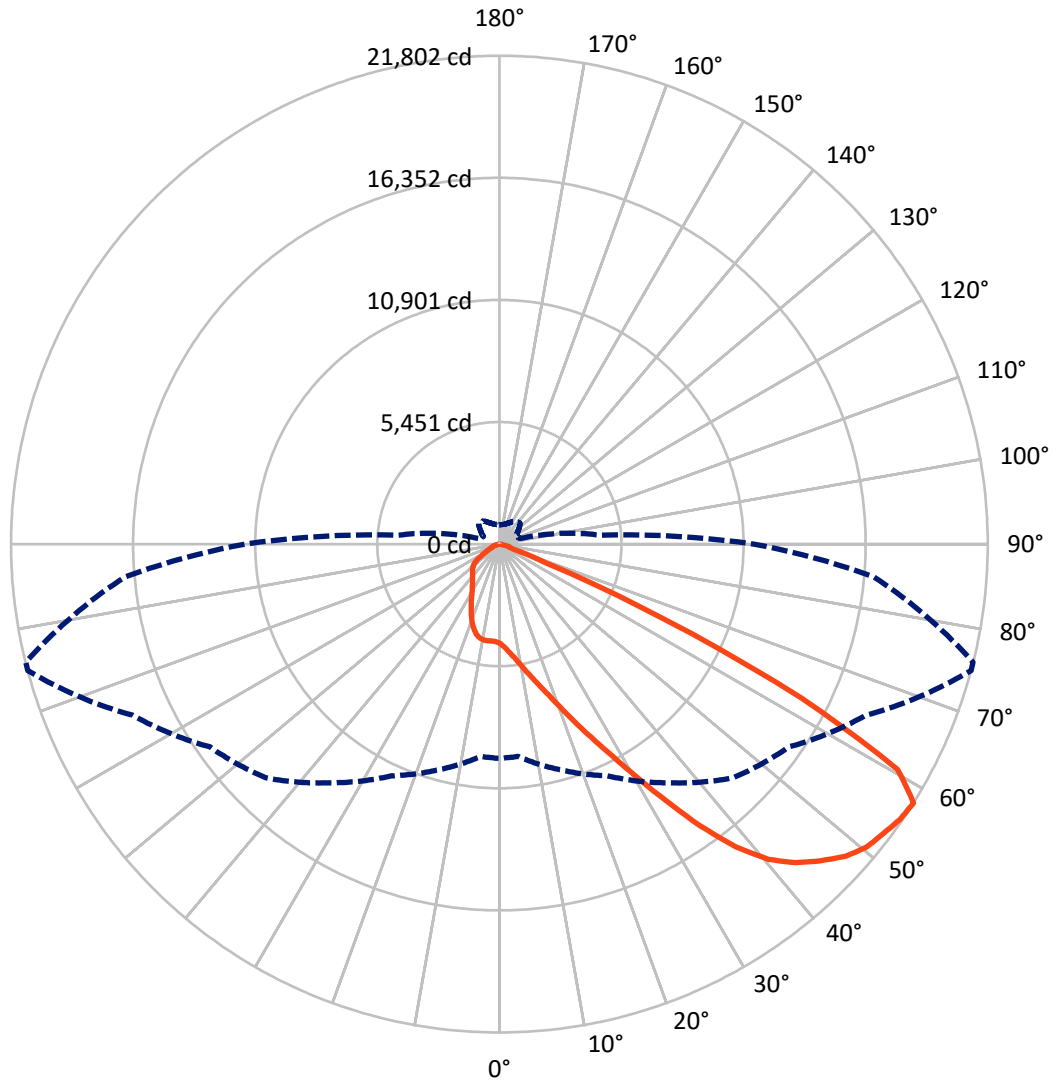
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4343.4	0.0	4343.4
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	22246.7	0.0	22246.7
	% Fixture	83.7	0.0	83.7
Total	Lumens	26590.1	0.0	26590.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.3	1.7
10°-20°	1466.0	5.5
20°-30°	2684.5	10.1
30°-40°	4453.9	16.8
40°-50°	6802.2	25.6
50°-60°	7643.4	28.7
60°-70°	2819.2	10.6
70°-80°	269.5	1.0
80°-90°	0.2	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°	26590.1	100.0
0°-180°	26590.1	100.0

Coefficient of Utilization



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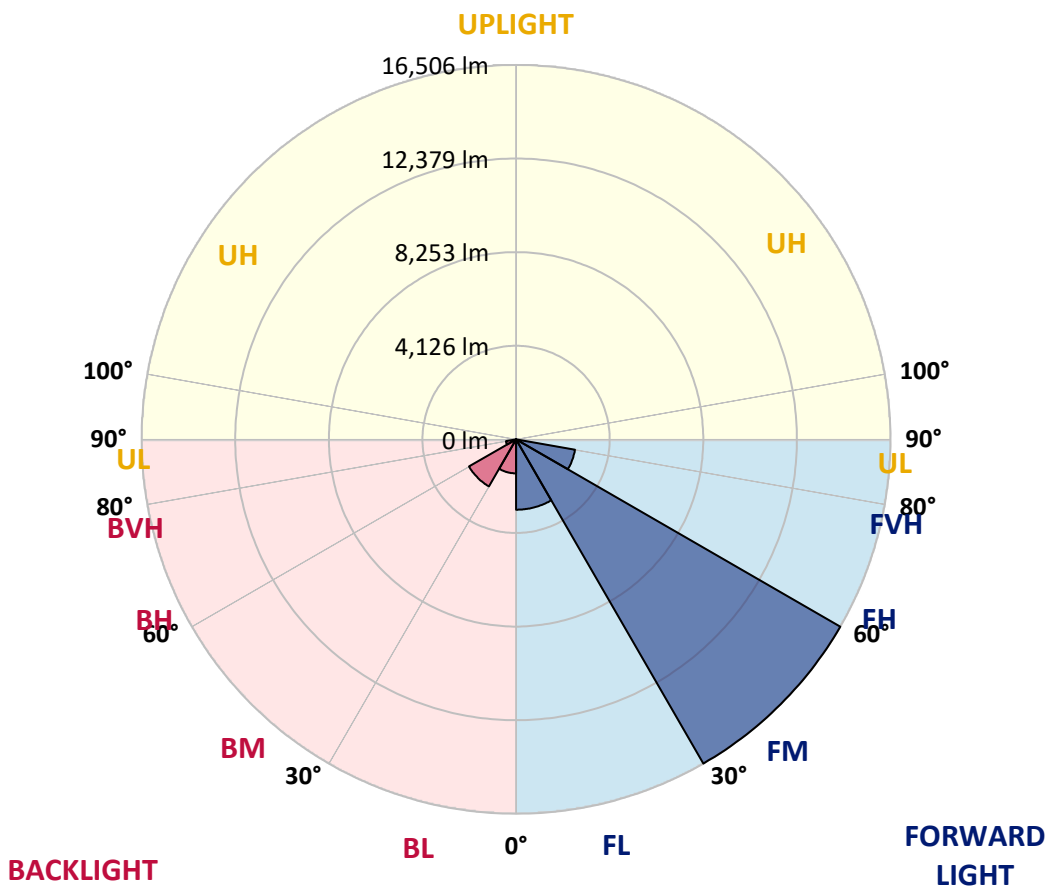
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3103.0	11.7			
FM (30°-60°)	16505.9	62.1			
FH (60°-80°)	2637.6	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1498.8	5.6	B3/2500		
BM (30°-60°)	2393.5	9.0	B2/2500		
BH (60°-80°)	451.0	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9
2.5°	4954.7	5006.1	4990.0	4957.9	4938.7	4871.3	4829.6	4707.6	4621.0	4611.4	4531.1
5°	5580.5	5570.8	5558.0	5519.5	5487.4	5381.5	5256.4	5051.0	4868.1	4845.6	4675.5
7.5°	5923.8	5930.3	5936.7	5930.3	5907.8	5827.6	5689.6	5448.9	5169.7	5150.5	4880.9
10°	6065.0	6077.9	6110.0	6170.9	6225.5	6219.1	6138.8	5891.8	5548.4	5516.3	5153.7
12.5°	6132.4	6148.5	6199.8	6315.3	6463.0	6578.5	6591.3	6369.9	5991.2	5939.9	5477.8
15°	6225.5	6241.5	6305.7	6456.5	6671.5	6899.4	7047.0	6905.8	6482.2	6427.7	5834.0
17.5°	6267.2	6289.7	6382.7	6581.7	6860.9	7210.7	7544.4	7531.6	7063.0	7021.3	6248.0
20°	6347.4	6363.5	6446.9	6661.9	6998.9	7502.7	8064.3	8266.4	7772.2	7711.3	6748.6
22.5°	6600.9	6607.4	6645.9	6780.6	7095.1	7714.5	8593.7	9123.2	8609.8	8529.6	7310.1
25°	7014.9	7011.7	7027.7	7050.2	7281.3	7929.5	9104.0	10089.1	9569.3	9482.6	7945.5
27.5°	7541.2	7541.2	7579.7	7515.5	7608.6	8195.8	9607.8	11199.5	10686.0	10564.1	8641.9
30°	8160.5	8157.3	8247.2	8144.5	8173.4	8616.2	10150.1	12409.3	12033.8	11883.0	9444.1
32.5°	9001.3	8982.0	9084.7	8943.5	8847.3	9251.6	10811.2	13673.6	13647.9	13416.9	10451.8
35°	10063.5	10031.4	10063.5	9925.5	9752.2	10140.5	11677.6	14934.8	15438.6	15194.7	11651.9
37.5°	11119.2	11221.9	11257.2	11019.8	10878.6	11266.9	12720.5	16064.3	17149.0	16895.5	12900.2
40°	12364.3	12332.2	12454.2	12187.8	12098.0	12528.0	13741.0	16905.1	18503.2	18262.5	14010.6
42.5°	13282.1	13339.9	13490.7	13343.1	13272.5	13676.8	14597.8	17396.1	19443.4	19206.0	14803.2
45°	14382.8	14424.5	14482.3	14360.3	14286.5	14684.5	15217.1	17611.1	20159.0	19902.3	15335.9
47.5°	15573.3	15605.4	15605.4	15355.1	15117.7	15281.3	15631.1	17733.0	20816.9	20569.8	15730.6
50°	16426.9	16443.0	16584.2	16407.7	15891.0	15637.5	15820.4	17851.7	21253.3	21022.3	15859.0
52.5°	15669.6	15650.4	16115.7	16481.5	16619.5	16115.7	16147.8	18025.0	21465.1	21266.1	15961.6
55°	13195.5	13163.4	13818.0	14706.9	15923.1	16568.1	16542.5	18127.7	21699.4	21577.4	16333.9
57.5°	9566.1	9511.5	10422.9	11411.3	13006.1	14755.1	15781.9	18070.0	21802.0	21792.4	16767.1
60°	5750.6	5705.6	6565.6	7605.4	8837.6	10596.2	12300.2	16186.3	20428.6	20447.8	15640.7
62.5°	3539.5	3581.3	4357.8	4887.3	5346.2	5875.7	6860.9	10888.2	15133.7	15258.9	10990.9
65°	2381.1	2413.2	3132.0	3799.5	3799.5	3106.3	2666.7	5205.0	8073.9	7862.1	5198.6
67.5°	1598.1	1633.4	2201.4	2981.2	3093.5	2166.1	1081.4	1553.2	2249.5	2182.1	1286.8
70°	940.2	978.7	1466.5	2044.1	2252.7	1508.2	722.0	657.8	638.6	619.3	500.6
72.5°	420.4	436.4	747.7	1039.7	949.9	635.4	510.2	526.3	497.4	487.8	407.5
75°	128.4	134.8	192.5	224.6	227.8	227.8	308.1	414.0	391.5	394.7	314.5
77.5°	32.1	32.1	51.3	48.1	25.7	22.5	57.8	93.1	96.3	86.6	64.2
80°	0.0	0.0	0.0	0.0	0.0	3.2	3.2	3.2	3.2	3.2	3.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9
2.5°	4495.8	4412.4	4357.8	4280.8	4226.3	4168.5	4117.2	4075.4	4053.0	4046.6	4049.8
5°	4598.5	4466.9	4338.6	4191.0	4088.3	3992.0	3915.0	3854.0	3825.1	3815.5	3815.5
7.5°	4755.8	4572.8	4345.0	4114.0	3940.7	3789.8	3700.0	3632.6	3606.9	3600.5	3581.3
10°	4961.1	4710.8	4335.4	3976.0	3732.1	3574.8	3510.7	3491.4	3501.0	3504.2	3501.0
12.5°	5208.2	4855.2	4274.4	3773.8	3510.7	3414.4	3420.8	3472.2	3529.9	3558.8	3565.2
15°	5471.4	4986.8	4136.4	3533.1	3321.3	3318.1	3411.2	3529.9	3642.2	3690.4	3703.2
17.5°	5766.6	5092.7	3924.6	3276.4	3157.7	3250.7	3417.6	3600.5	3751.3	3831.6	3847.6
20°	6090.7	5179.3	3655.1	3035.7	3013.3	3180.1	3411.2	3635.8	3821.9	3911.8	3927.8
22.5°	6427.7	5240.3	3343.8	2814.3	2881.7	3099.9	3350.2	3568.4	3744.9	3847.6	3860.4
25°	6812.7	5246.7	3026.1	2628.2	2759.8	2990.8	3202.6	3382.3	3529.9	3619.8	3629.4
27.5°	7149.7	5169.7	2743.7	2477.4	2647.4	2856.0	2997.2	3096.7	3199.4	3250.7	3253.9
30°	7538.0	5034.9	2477.4	2355.4	2531.9	2689.2	2759.8	2782.2	2791.8	2801.5	2788.6
32.5°	8000.1	4871.3	2278.4	2236.7	2400.3	2506.2	2525.5	2480.6	2426.0	2349.0	2329.7
35°	8568.1	4723.7	2114.7	2121.2	2255.9	2320.1	2304.1	2207.8	2101.9	2008.8	1992.8
37.5°	9184.2	4598.5	1989.6	2008.8	2098.7	2143.6	2095.5	1989.6	1941.5	1861.2	1864.4
40°	9729.7	4495.8	1877.3	1896.5	1938.2	1980.0	1902.9	1832.3	1922.2	1915.8	1922.2
42.5°	10118.0	4409.2	1781.0	1771.4	1800.3	1829.1	1771.4	1736.1	1886.9	1845.2	1867.6
45°	10345.9	4329.0	1700.8	1643.0	1687.9	1739.3	1700.8	1655.9	1707.2	1514.7	1498.6
47.5°	10499.9	4284.0	1630.2	1517.9	1598.1	1687.9	1607.7	1498.6	1424.8	1257.9	1245.1
50°	10515.9	4261.6	1546.7	1389.5	1492.2	1588.5	1495.4	1344.6	1238.7	1164.9	1155.2
52.5°	10599.4	4306.5	1431.2	1225.8	1338.2	1492.2	1428.0	1277.2	1132.8	1068.6	1055.8
55°	10971.6	4495.8	1238.7	1001.2	1164.9	1418.4	1373.5	1139.2	1001.2	962.7	953.1
57.5°	11356.7	4534.3	975.5	792.6	1014.0	1312.5	1254.7	1049.3	914.6	869.6	860.0
60°	10384.4	3735.3	731.7	654.6	895.3	1213.0	1161.7	994.8	837.6	783.0	773.4
62.5°	6822.4	2018.5	580.8	555.2	754.1	1026.9	1059.0	898.5	747.7	689.9	686.7
65°	3144.8	937.0	446.1	439.6	590.5	818.3	911.4	786.2	632.2	580.8	580.8
67.5°	856.8	465.3	349.8	324.1	401.1	548.7	664.3	587.2	449.3	388.3	385.1
70°	426.8	375.5	314.5	279.2	288.8	340.2	391.5	327.3	227.8	186.1	182.9
72.5°	349.8	308.1	266.3	237.5	218.2	208.6	202.2	163.7	105.9	80.2	77.0
75°	259.9	221.4	189.3	154.0	131.6	121.9	109.1	80.2	44.9	25.7	22.5
77.5°	57.8	54.6	51.3	38.5	35.3	28.9	22.5	16.0	6.4	0.0	0.0
80°	3.2	3.2	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)