

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: P638830

Luminaire Tested: GWS-SA4F-750-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638830
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-SA4F-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: 21828.9 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 - G2

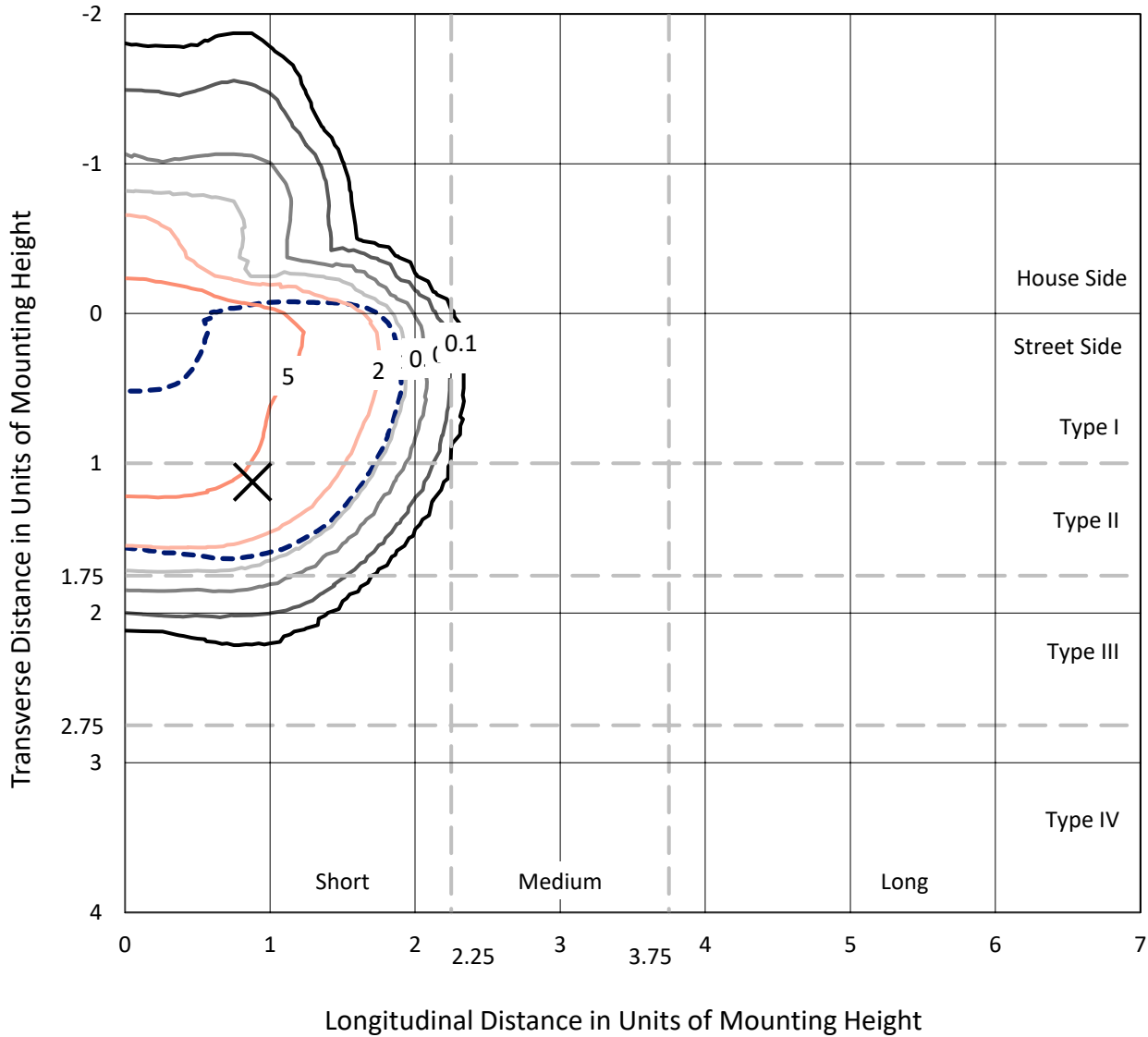
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

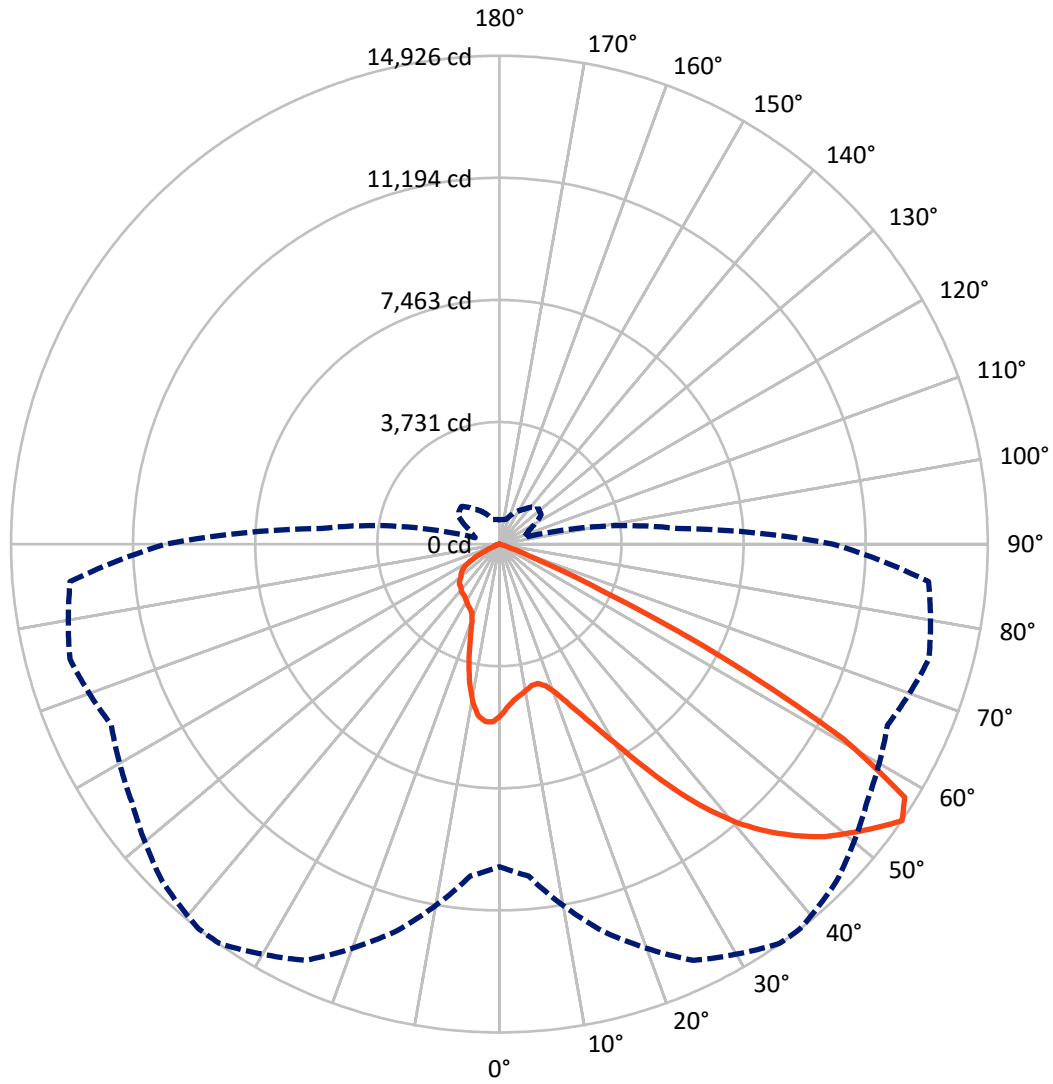
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	4253.0	0.0	4253.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	17576.0	0.0	17576.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	21828.9	0.0	21828.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.0	2.2
10°-20°	1303.0	6.0
20°-30°	2236.1	10.2
30°-40°	3708.7	17.0
40°-50°	5452.0	25.0
50°-60°	6370.8	29.2
60°-70°	2159.5	9.9
70°-80°	110.4	0.5
80°-90°	4.4	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°	21828.9	100.0
0°-180°	21828.9	100.0

Coefficient of Utilization



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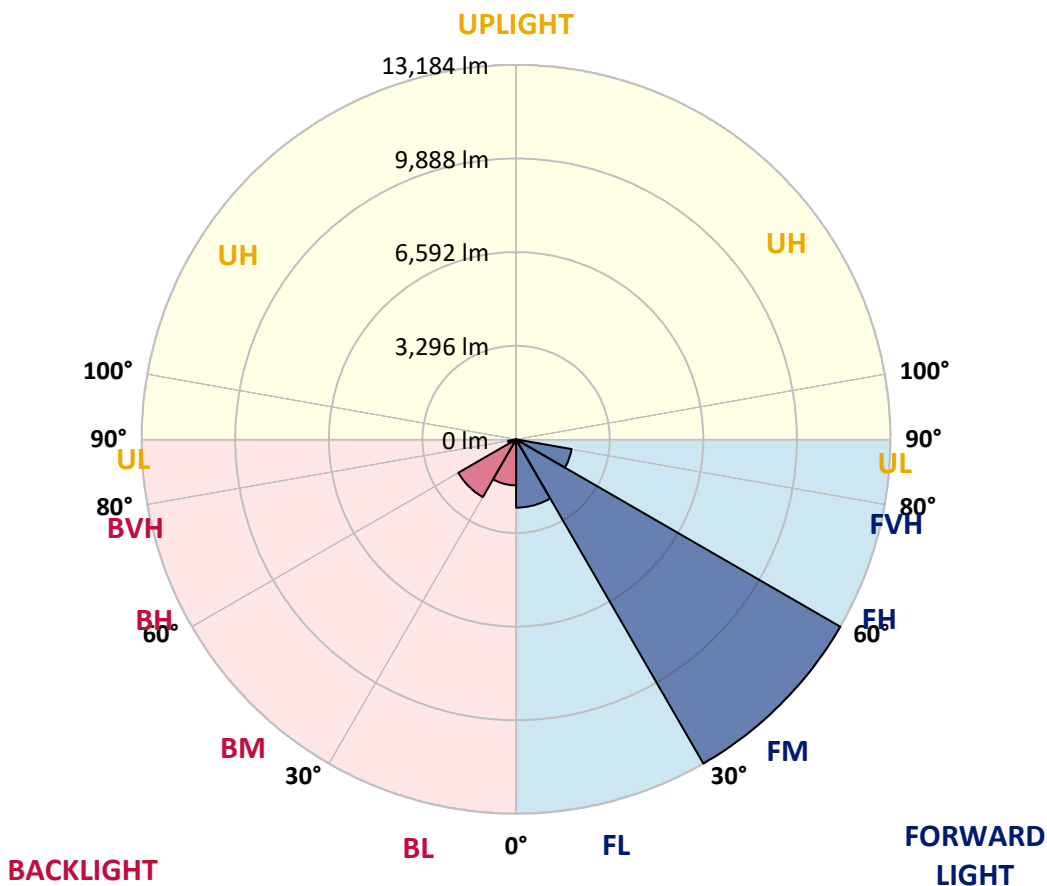
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2402.8	11.0			
FM (30°-60°)	13184.0	60.4			
FH (60°-80°)	1986.8	9.1			G2/5000
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	1620.3	7.4	B3/2500		
BM (30°-60°)	2347.5	10.8	B2/2500		
BH (60°-80°)	283.1	1.3	B1/500		G1/500
BVH (80°-90°)	2.0	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°	38°	45°	55°	65°	75°	85°
0°	5234.7	5234.7	5234.7	5234.7	5234.7	5234.7	5234.7	5234.7	5234.7	5234.7	5234.7
2.5°	4875.4	4865.5	4885.4	4925.3	4962.8	4975.2	5012.7	5065.1	5097.5	5174.9	5237.2
5°	4655.9	4650.9	4670.8	4705.8	4755.7	4773.1	4830.5	4917.9	5005.2	5139.9	5272.2
7.5°	4456.3	4453.8	4483.7	4561.1	4633.4	4655.9	4725.7	4833.0	4950.3	5157.4	5352.0
10°	4194.3	4196.8	4254.2	4363.9	4496.2	4541.1	4653.4	4808.1	4960.3	5227.3	5496.7
12.5°	4109.4	4114.4	4144.4	4229.2	4373.9	4431.3	4588.5	4823.0	5017.7	5327.1	5683.9
15°	4316.5	4316.5	4291.6	4301.6	4366.4	4418.8	4583.5	4872.9	5115.0	5446.8	5868.5
17.5°	4718.2	4703.3	4640.9	4556.1	4533.6	4551.1	4683.3	4980.2	5252.2	5586.5	6078.1
20°	5262.2	5267.2	5144.9	4967.8	4825.5	4823.0	4902.9	5169.9	5449.3	5753.7	6305.1
22.5°	5920.9	5900.9	5738.7	5496.7	5249.7	5229.7	5262.2	5459.3	5733.8	6018.2	6584.6
25°	6684.4	6674.4	6444.9	6120.5	5793.6	5746.2	5746.2	5940.9	6140.5	6395.0	6918.9
27.5°	7482.8	7482.8	7260.8	6886.5	6452.4	6367.5	6355.0	6584.6	6716.8	6766.7	7200.9
30°	8303.7	8293.7	8074.2	7689.9	7225.8	7138.5	7103.6	7273.2	7368.1	7218.3	7552.7
32.5°	9137.1	9154.6	8932.5	8575.7	8161.5	8104.1	7996.8	7996.8	8074.2	7864.6	8106.6
35°	10032.8	10027.8	9853.2	9611.2	9256.9	9192.0	9014.8	8737.9	8855.1	8762.8	8872.6
37.5°	10823.8	10861.2	10776.4	10596.7	10309.8	10244.9	9953.0	9451.5	9541.3	9686.0	9783.3
40°	11627.2	11657.1	11742.0	11684.6	11322.8	11203.0	10684.1	9860.7	9960.5	10457.0	10736.5
42.5°	12415.7	12430.6	12602.8	12697.6	12213.6	12004.0	11238.0	10110.2	10215.0	11060.8	11549.9
45°	12917.2	12949.6	13234.1	13523.5	12999.5	12712.6	11719.5	10429.6	10474.5	11480.0	12151.2
47.5°	12897.2	12972.1	13506.0	14032.5	13675.7	13366.3	12298.4	10941.1	10866.2	11874.2	12547.9
50°	12495.5	12585.3	13351.3	14187.2	14162.2	13875.3	12942.1	11682.1	11447.6	12223.5	12597.8
52.5°	11662.1	11921.6	13079.4	14207.1	14554.0	14409.3	13738.1	12680.1	12233.5	12725.1	12677.6
55°	9860.7	10180.0	12253.5	14037.5	14908.3	14925.7	14573.9	13720.6	13086.8	13588.4	13169.2
57.5°	7485.3	7739.8	9431.5	12495.5	14321.9	14608.9	14898.3	14269.5	13613.3	14177.2	13284.0
60°	4511.2	4805.6	5905.9	9169.5	11567.3	12056.4	13191.6	13069.4	12278.4	12520.5	10893.6
62.5°	1828.9	1983.6	2727.2	5052.6	7280.7	7737.3	8825.2	9009.8	8815.2	8568.2	6607.0
65°	668.7	731.1	1092.9	2088.4	3348.4	3515.6	4089.5	4416.3	4685.8	3989.7	2457.7
67.5°	414.2	454.1	711.1	1072.9	1217.6	1132.8	1152.7	1374.8	1312.4	810.9	439.1
70°	306.9	339.3	556.4	743.5	491.5	379.3	257.0	274.5	247.0	217.1	214.6
72.5°	212.1	242.0	416.7	439.1	189.6	134.7	94.8	132.2	149.7	147.2	152.2
75°	139.7	162.2	262.0	172.2	47.4	37.4	32.4	69.9	89.8	89.8	92.3
77.5°	82.3	94.8	92.3	34.9	10.0	10.0	7.5	12.5	20.0	22.5	27.4
80°	10.0	7.5	5.0	5.0	5.0	5.0	5.0	5.0	7.5	7.5	7.5
82.5°	2.5	2.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0	7.5	7.5
85°	0.0	0.0	2.5	2.5	5.0	5.0	5.0	5.0	5.0	7.5	7.5
87.5°	0.0	0.0	2.5	2.5	5.0	5.0	5.0	5.0	5.0	7.5	7.5
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°	5234.7	5234.7	5234.7	5234.7	5234.7	5234.7	5234.7	5234.7	5234.7	5234.7	5234.7
2.5°	5284.6	5267.2	5339.5	5391.9	5434.3	5454.3	5426.9	5424.4	5424.4	5369.5	5354.5
5°	5347.0	5354.5	5456.8	5501.7	5509.2	5484.2	5421.9	5379.5	5354.5	5297.1	5264.7
7.5°	5466.8	5491.7	5589.0	5581.6	5514.2	5399.4	5234.7	5107.5	5025.1	4935.3	4880.4
10°	5638.9	5686.4	5746.2	5641.4	5426.9	5134.9	4795.6	4553.6	4408.9	4306.6	4244.2
12.5°	5848.5	5895.9	5876.0	5629.0	5182.3	4660.9	4224.2	3874.9	3707.7	3615.4	3550.5
15°	6060.6	6090.6	5960.8	5479.3	4750.7	4049.6	3563.0	3216.2	3011.6	2936.7	2881.9
17.5°	6277.7	6270.2	5975.8	5184.8	4174.3	3360.9	2881.9	2644.8	2587.4	2575.0	2570.0
20°	6504.7	6437.4	5915.9	4763.2	3480.7	2679.7	2407.8	2422.8	2527.5	2577.4	2587.4
22.5°	6764.2	6594.6	5766.2	4191.8	2772.1	2233.1	2260.6	2407.8	2550.0	2617.4	2627.3
25°	7041.2	6739.3	5516.7	3458.2	2185.7	2053.5	2215.7	2385.3	2537.5	2619.9	2629.8
27.5°	7223.3	6774.2	5107.5	2719.7	1876.3	1983.6	2155.8	2318.0	2475.1	2565.0	2577.4
30°	7420.5	6759.2	4551.1	2095.9	1771.5	1923.7	2073.4	2220.6	2365.4	2465.2	2475.1
32.5°	7709.9	6749.3	3872.4	1701.7	1729.1	1876.3	1986.1	2108.4	2208.2	2265.6	2258.1
35°	8089.1	6736.8	3081.5	1534.5	1704.2	1838.9	1926.2	1983.6	1873.8	1838.9	1846.4
37.5°	8575.7	6766.7	2415.3	1464.6	1696.7	1828.9	1903.8	1739.1	1569.4	1504.6	1494.6
40°	9114.6	6844.1	1841.4	1437.2	1721.6	1853.9	1818.9	1547.0	1337.4	1210.1	1182.7
42.5°	9656.1	6928.9	1457.1	1427.2	1764.0	1923.7	1679.2	1407.2	1092.9	1020.5	1010.5
45°	10057.8	6913.9	1260.0	1409.7	1801.5	1963.7	1641.8	1207.6	975.6	943.2	945.6
47.5°	10259.9	6749.3	1152.7	1369.8	1816.4	1923.7	1549.5	1125.3	895.7	930.7	960.6
50°	10152.6	6322.6	1052.9	1292.5	1784.0	1871.3	1402.3	1062.9	855.8	1000.5	1067.9
52.5°	10022.9	5798.6	943.2	1172.7	1706.7	1799.0	1344.9	1045.5	830.9	965.6	1015.5
55°	10195.0	5466.8	763.5	988.1	1554.5	1629.3	1300.0	1043.0	773.5	751.0	743.5
57.5°	9953.0	4805.6	546.4	711.1	1192.7	1290.0	1267.5	1025.5	686.2	683.7	693.6
60°	7692.4	2931.8	374.3	451.6	731.1	823.4	1150.2	980.6	591.3	543.9	546.4
62.5°	4371.4	1247.6	257.0	279.5	374.3	444.1	878.3	890.8	546.4	519.0	546.4
65°	1522.0	446.6	199.6	187.1	207.1	237.0	504.0	688.6	496.5	449.1	454.1
67.5°	314.4	222.1	177.2	154.7	154.7	154.7	257.0	429.2	409.2	356.8	361.8
70°	199.6	189.6	154.7	132.2	127.3	117.3	147.2	237.0	281.9	259.5	262.0
72.5°	147.2	144.7	122.3	107.3	94.8	84.8	92.3	117.3	144.7	149.7	152.2
75°	89.8	92.3	79.8	67.4	59.9	52.4	54.9	54.9	54.9	49.9	54.9
77.5°	27.4	29.9	25.0	20.0	17.5	17.5	17.5	15.0	12.5	7.5	7.5
80°	7.5	7.5	7.5	7.5	7.5	5.0	5.0	2.5	2.5	0.0	0.0
82.5°	7.5	7.5	7.5	7.5	5.0	5.0	2.5	2.5	0.0	0.0	0.0
85°	7.5	7.5	7.5	7.5	5.0	5.0	2.5	2.5	0.0	0.0	0.0
87.5°	7.5	7.5	7.5	7.5	5.0	5.0	2.5	2.5	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)