

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: P640810

Luminaire Tested: GWS-SA5E-750-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640810
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-SA5E-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24084.7 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

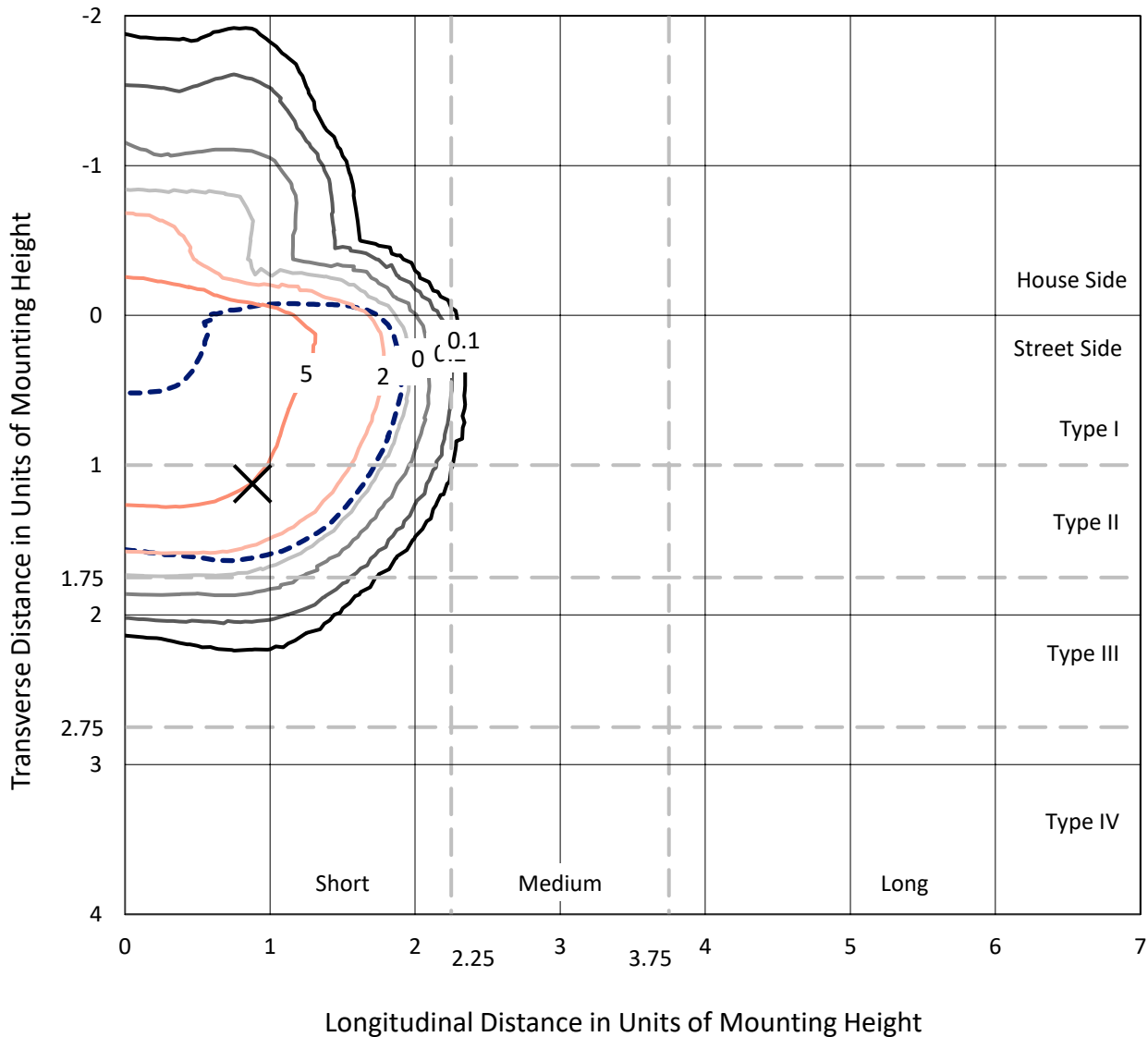
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

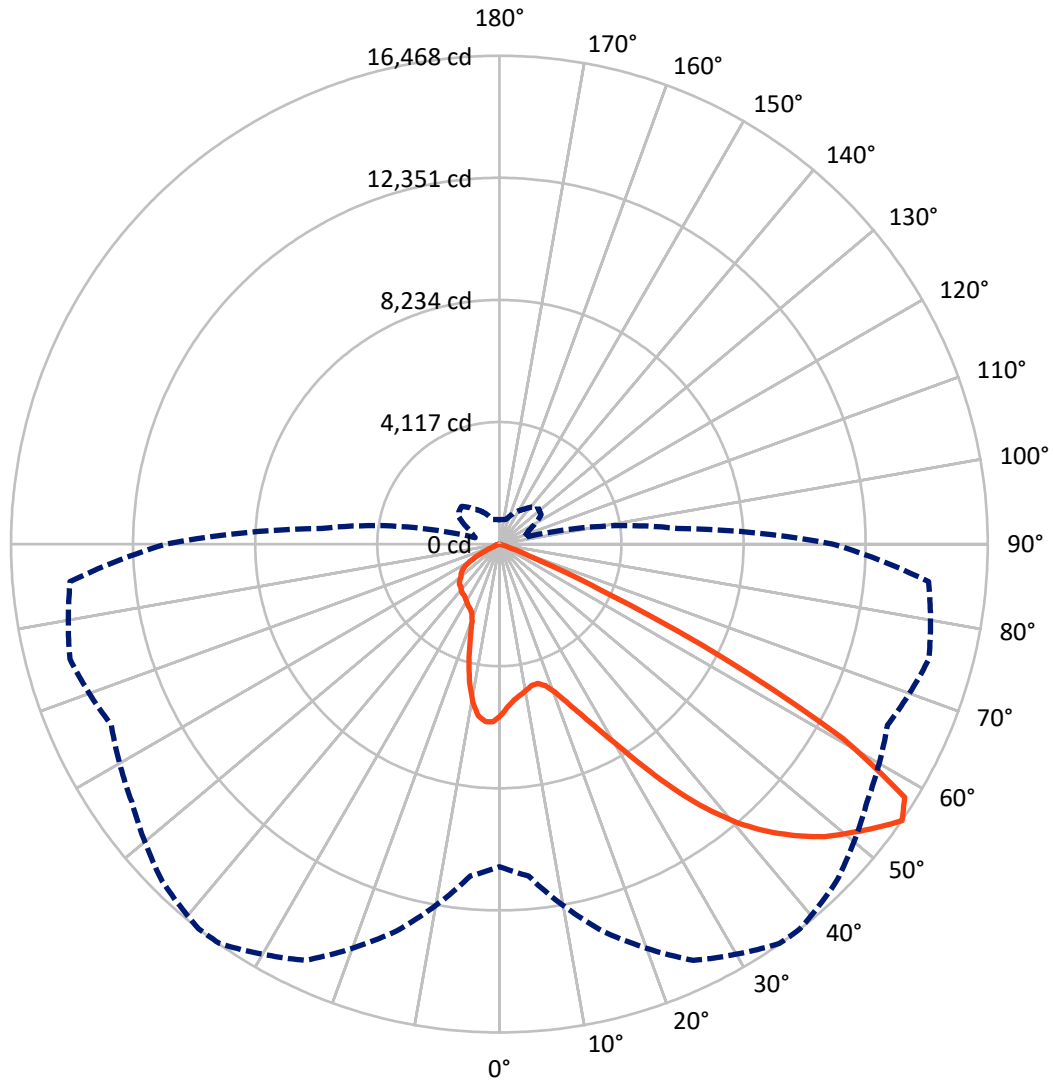
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	4692.5	0.0	4692.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	19392.3	0.0	19392.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	24084.7	0.0	24084.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.0	2.2
10°-20°	1437.7	6.0
20°-30°	2467.2	10.2
30°-40°	4092.0	17.0
40°-50°	6015.4	25.0
50°-60°	7029.2	29.2
60°-70°	2382.7	9.9
70°-80°	121.8	0.5
80°-90°	4.8	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°	24084.7	100.0
0°-180°	24084.7	100.0

Coefficient of Utilization



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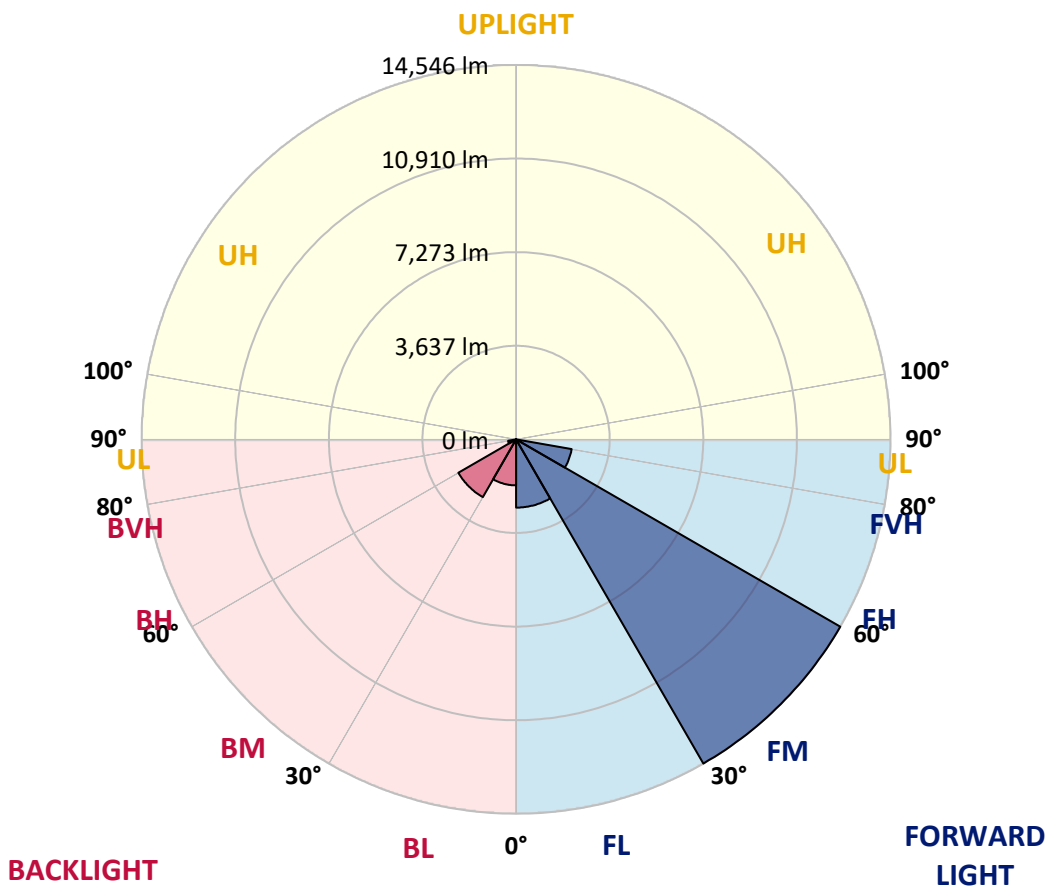
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2651.1	11.0			
FM (30°-60°)	14546.5	60.4			
FH (60°-80°)	2192.1	9.1			G2/5000
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	1787.8	7.4	B3/2500		
BM (30°-60°)	2590.0	10.8	B3/5000		
BH (60°-80°)	312.4	1.3	B1/500		G1/500
BVH (80°-90°)	2.3	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°	5775.7	5775.7	5775.7	5775.7	5775.7	5775.7	5775.7	5775.7	5775.7	5775.7	5775.7
2.5°	5379.3	5368.3	5390.3	5434.3	5475.6	5489.4	5530.7	5588.5	5624.3	5709.6	5778.4
5°	5137.0	5131.5	5153.5	5192.1	5247.1	5266.4	5329.7	5426.1	5522.4	5671.1	5817.0
7.5°	4916.8	4914.0	4947.1	5032.4	5112.2	5137.0	5214.1	5332.5	5461.9	5690.4	5905.1
10°	4627.7	4630.5	4693.8	4814.9	4960.8	5010.4	5134.3	5304.9	5472.9	5767.4	6064.8
12.5°	4534.1	4539.6	4572.7	4666.3	4825.9	4889.2	5062.7	5321.5	5536.2	5877.6	6271.2
15°	4762.6	4762.6	4735.1	4746.1	4817.7	4875.5	5057.2	5376.5	5643.6	6009.7	6474.9
17.5°	5205.8	5189.3	5120.5	5026.9	5002.1	5021.4	5167.3	5494.9	5795.0	6163.9	6706.2
20°	5806.0	5811.5	5676.6	5481.1	5324.2	5321.5	5409.6	5704.1	6012.4	6348.3	6956.7
22.5°	6532.8	6510.7	6331.8	6064.8	5792.2	5770.2	5806.0	6023.5	6326.3	6640.1	7265.0
25°	7375.2	7364.1	7110.9	6753.0	6392.4	6340.1	6340.1	6554.8	6775.0	7055.8	7633.9
27.5°	8256.1	8256.1	8011.1	7598.2	7119.1	7025.5	7011.8	7265.0	7410.9	7466.0	7945.0
30°	9161.8	9150.8	8908.6	8484.6	7972.6	7876.2	7837.7	8024.9	8129.5	7964.3	8333.2
32.5°	10081.3	10100.6	9855.6	9461.9	9004.9	8941.6	8823.2	8823.2	8908.6	8677.3	8944.3
35°	11069.6	11064.1	10871.4	10604.4	10213.5	10141.9	9946.4	9640.8	9770.2	9668.4	9789.5
37.5°	11942.3	11983.6	11890.0	11691.8	11375.2	11303.6	10981.5	10428.2	10527.3	10687.0	10794.3
40°	12828.8	12861.8	12955.4	12892.1	12492.9	12360.8	11788.1	10879.7	10989.8	11537.6	11846.0
42.5°	13698.7	13715.2	13905.2	14009.8	13475.7	13244.5	12399.3	11155.0	11270.6	12203.8	12743.4
45°	14252.0	14287.8	14601.7	14921.0	14342.9	14026.3	12930.6	11507.3	11556.9	12666.3	13406.9
47.5°	14230.0	14312.6	14901.7	15482.6	15088.9	14747.6	13569.3	12071.7	11989.1	13101.3	13844.6
50°	13786.8	13885.9	14731.1	15653.3	15625.8	15309.2	14279.6	12889.3	12630.5	13486.7	13899.7
52.5°	12867.3	13153.6	14431.0	15675.3	16058.0	15898.3	15157.8	13990.5	13497.7	14040.1	13987.8
55°	10879.7	11232.0	13519.8	15488.1	16448.9	16468.2	16080.0	15138.5	14439.2	14992.6	14530.1
57.5°	8258.9	8539.7	10406.2	13786.8	15802.0	16118.5	16437.9	15744.1	15020.1	15642.3	14656.7
60°	4977.3	5302.2	6516.2	10117.1	12762.7	13302.3	14554.9	14420.0	13547.3	13814.3	12019.4
62.5°	2017.9	2188.6	3009.0	5574.7	8033.1	8536.9	9737.2	9940.9	9726.2	9453.6	7289.8
65°	737.8	806.6	1205.8	2304.2	3694.5	3878.9	4512.1	4872.7	5170.0	4402.0	2711.7
67.5°	457.0	501.0	784.6	1183.8	1343.4	1249.8	1271.9	1516.9	1448.1	894.7	484.5
70°	338.6	374.4	613.9	820.4	542.3	418.4	283.6	302.8	272.5	239.5	236.8
72.5°	234.0	267.0	459.7	484.5	209.2	148.7	104.6	145.9	165.2	162.4	167.9
75°	154.2	178.9	289.1	190.0	52.3	41.3	35.8	77.1	99.1	99.1	101.9
77.5°	90.8	104.6	101.9	38.5	11.0	11.0	8.3	13.8	22.0	24.8	30.3
80°	11.0	8.3	5.5	5.5	5.5	5.5	5.5	5.5	8.3	8.3	8.3
82.5°	2.8	2.8	2.8	5.5	5.5	5.5	5.5	5.5	5.5	8.3	8.3
85°	0.0	0.0	2.8	2.8	5.5	5.5	5.5	5.5	5.5	8.3	8.3
87.5°	0.0	0.0	2.8	2.8	5.5	5.5	5.5	5.5	5.5	8.3	8.3
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°	5775.7	5775.7	5775.7	5775.7	5775.7	5775.7	5775.7	5775.7	5775.7	5775.7	5775.7
2.5°	5830.8	5811.5	5891.3	5949.1	5995.9	6018.0	5987.7	5984.9	5984.9	5924.4	5907.8
5°	5899.6	5907.8	6020.7	6070.3	6078.5	6051.0	5982.2	5935.4	5907.8	5844.5	5808.7
7.5°	6031.7	6059.2	6166.6	6158.4	6084.0	5957.4	5775.7	5635.3	5544.4	5445.3	5384.8
10°	6221.7	6274.0	6340.1	6224.4	5987.7	5665.6	5291.2	5024.1	4864.5	4751.6	4682.8
12.5°	6452.9	6505.2	6483.2	6210.7	5717.9	5142.5	4660.7	4275.3	4090.9	3989.0	3917.5
15°	6686.9	6720.0	6576.8	6045.5	5241.6	4468.0	3931.2	3548.6	3322.8	3240.2	3179.7
17.5°	6926.4	6918.2	6593.3	5720.6	4605.7	3708.2	3179.7	2918.1	2854.8	2841.0	2835.5
20°	7176.9	7102.6	6527.3	5255.4	3840.4	2956.7	2656.6	2673.1	2788.7	2843.8	2854.8
22.5°	7463.3	7276.1	6362.1	4625.0	3058.5	2463.9	2494.2	2656.6	2813.5	2887.8	2898.9
25°	7768.8	7435.7	6086.8	3815.6	2411.6	2265.7	2444.6	2631.8	2799.8	2890.6	2901.6
27.5°	7969.8	7474.3	5635.3	3000.7	2070.2	2188.6	2378.6	2557.5	2730.9	2830.0	2843.8
30°	8187.3	7457.7	5021.4	2312.5	1954.6	2122.5	2287.7	2450.1	2609.8	2719.9	2730.9
32.5°	8506.6	7446.7	4272.6	1877.5	1907.8	2070.2	2191.4	2326.2	2436.4	2499.7	2491.4
35°	8925.1	7433.0	3399.9	1693.1	1880.3	2028.9	2125.3	2188.6	2067.5	2028.9	2037.2
37.5°	9461.9	7466.0	2664.9	1616.0	1872.0	2017.9	2100.5	1918.8	1731.6	1660.0	1649.0
40°	10056.5	7551.4	2031.7	1585.7	1899.5	2045.4	2006.9	1706.8	1475.6	1335.2	1304.9
42.5°	10653.9	7645.0	1607.7	1574.7	1946.3	2122.5	1852.7	1552.7	1205.8	1126.0	1114.9
45°	11097.2	7628.4	1390.2	1555.4	1987.6	2166.6	1811.4	1332.4	1076.4	1040.6	1043.4
47.5°	11320.1	7446.7	1271.9	1511.4	2004.1	2122.5	1709.6	1241.6	988.3	1026.9	1059.9
50°	11201.8	6976.0	1161.7	1426.0	1968.4	2064.7	1547.2	1172.8	944.3	1103.9	1178.3
52.5°	11058.6	6397.9	1040.6	1293.9	1883.0	1984.9	1483.8	1153.5	916.7	1065.4	1120.5
55°	11248.6	6031.7	842.4	1090.2	1715.1	1797.7	1434.3	1150.7	853.4	828.6	820.4
57.5°	10981.5	5302.2	602.9	784.6	1315.9	1423.3	1398.5	1131.5	757.1	754.3	765.3
60°	8487.4	3234.7	412.9	498.3	806.6	908.5	1269.1	1081.9	652.4	600.1	602.9
62.5°	4823.2	1376.5	283.6	308.3	412.9	490.0	969.0	982.8	602.9	572.6	602.9
65°	1679.3	492.8	220.2	206.5	228.5	261.5	556.1	759.8	547.8	495.5	501.0
67.5°	346.9	245.0	195.5	170.7	170.7	170.7	283.6	473.5	451.5	393.7	399.2
70°	220.2	209.2	170.7	145.9	140.4	129.4	162.4	261.5	311.1	286.3	289.1
72.5°	162.4	159.7	134.9	118.4	104.6	93.6	101.9	129.4	159.7	165.2	167.9
75°	99.1	101.9	88.1	74.3	66.1	57.8	60.6	60.6	60.6	55.1	60.6
77.5°	30.3	33.0	27.5	22.0	19.3	19.3	19.3	16.5	13.8	8.3	8.3
80°	8.3	8.3	8.3	8.3	8.3	5.5	5.5	2.8	2.8	0.0	0.0
82.5°	8.3	8.3	8.3	8.3	5.5	5.5	2.8	2.8	0.0	0.0	0.0
85°	8.3	8.3	8.3	8.3	5.5	5.5	2.8	2.8	0.0	0.0	0.0
87.5°	8.3	8.3	8.3	8.3	5.5	5.5	2.8	2.8	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)