

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: P641195

Luminaire Tested: GWS-SA5F-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641195
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-SA5F-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25819.1 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

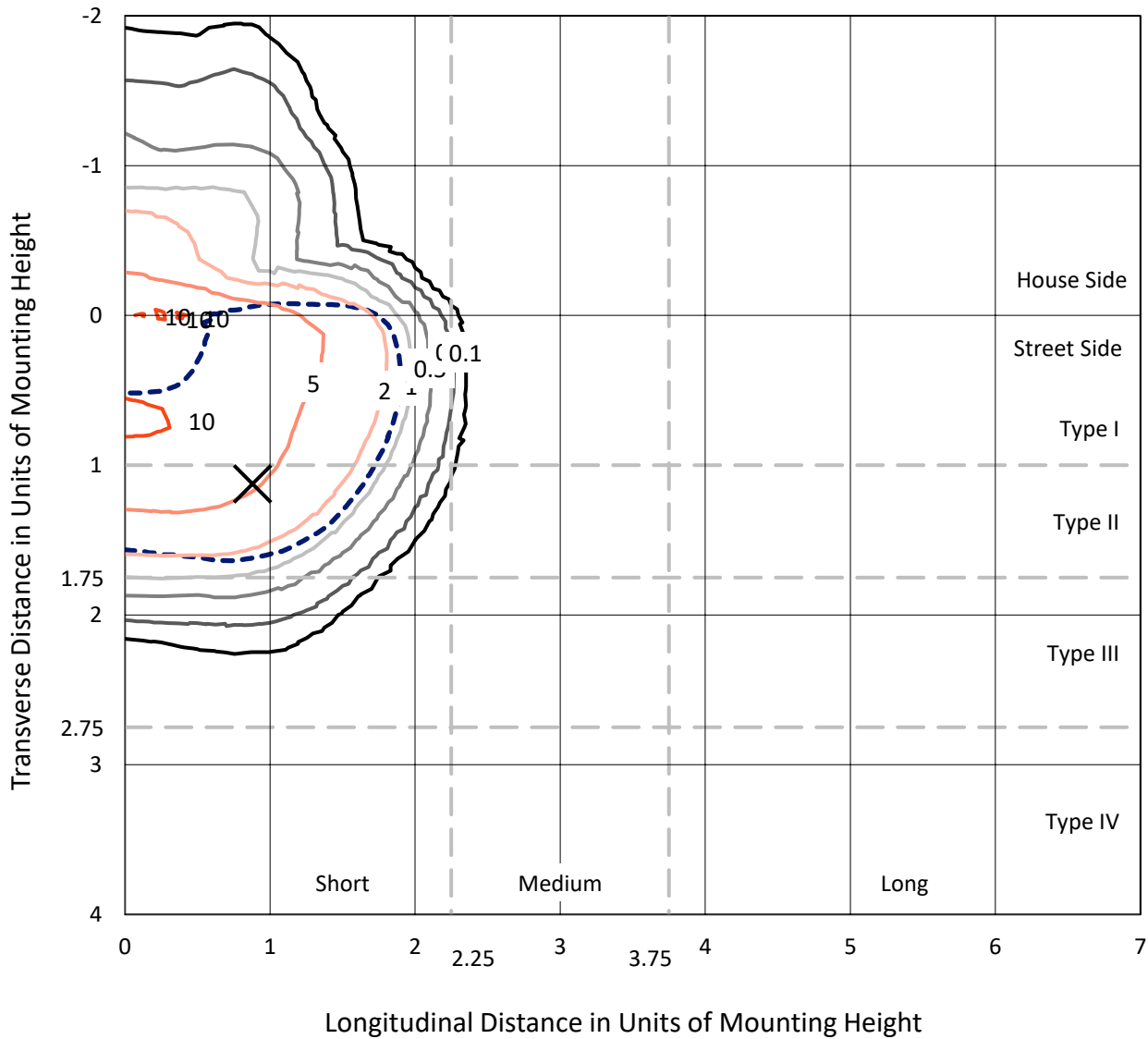
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

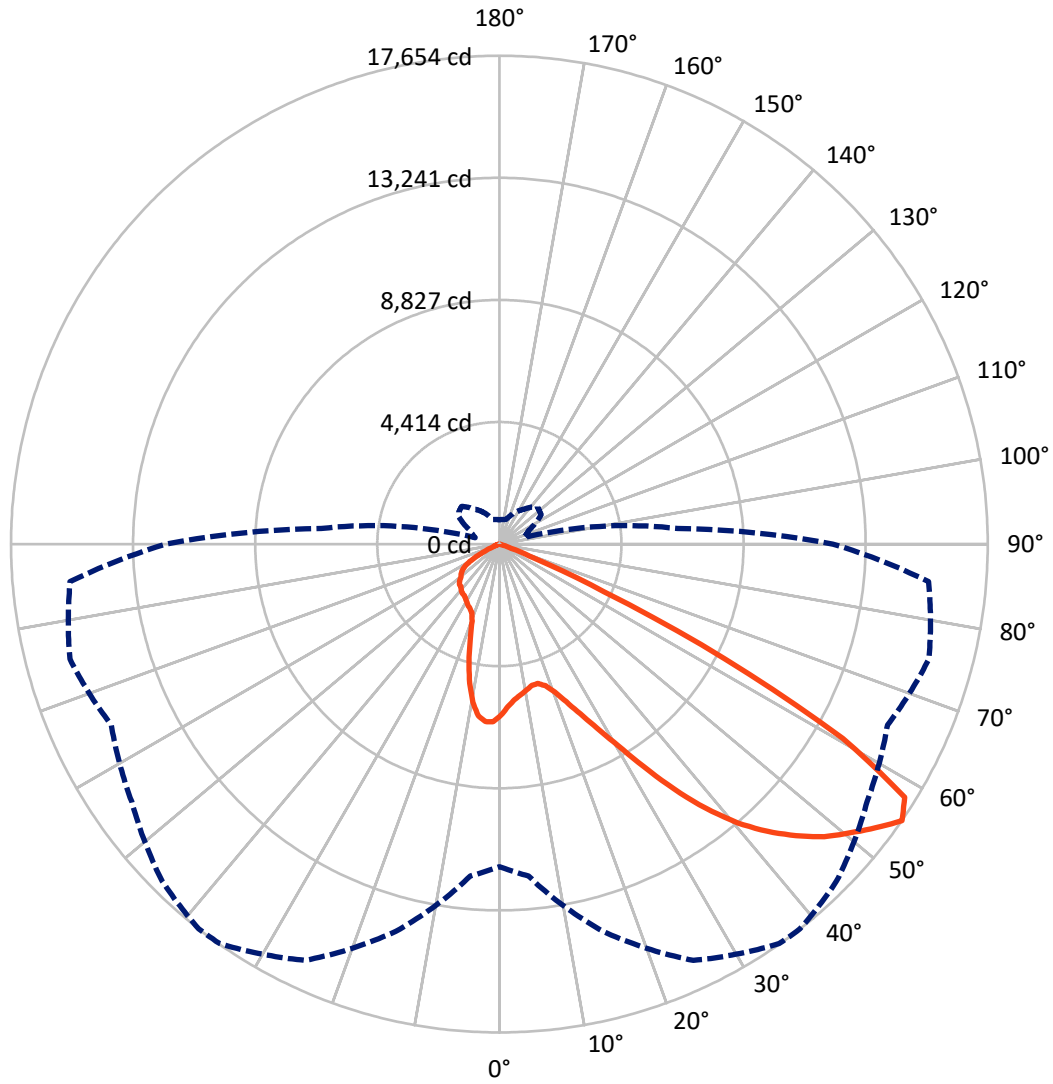
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	5030.4	0.0	5030.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	20788.8	0.0	20788.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	25819.1	0.0	25819.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.5	2.2
10°-20°	1541.2	6.0
20°-30°	2644.8	10.2
30°-40°	4386.7	17.0
40°-50°	6448.6	25.0
50°-60°	7535.3	29.2
60°-70°	2554.2	9.9
70°-80°	130.6	0.5
80°-90°	5.2	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°	25819.1	100.0
0°-180°	25819.1	100.0

Coefficient of Utilization



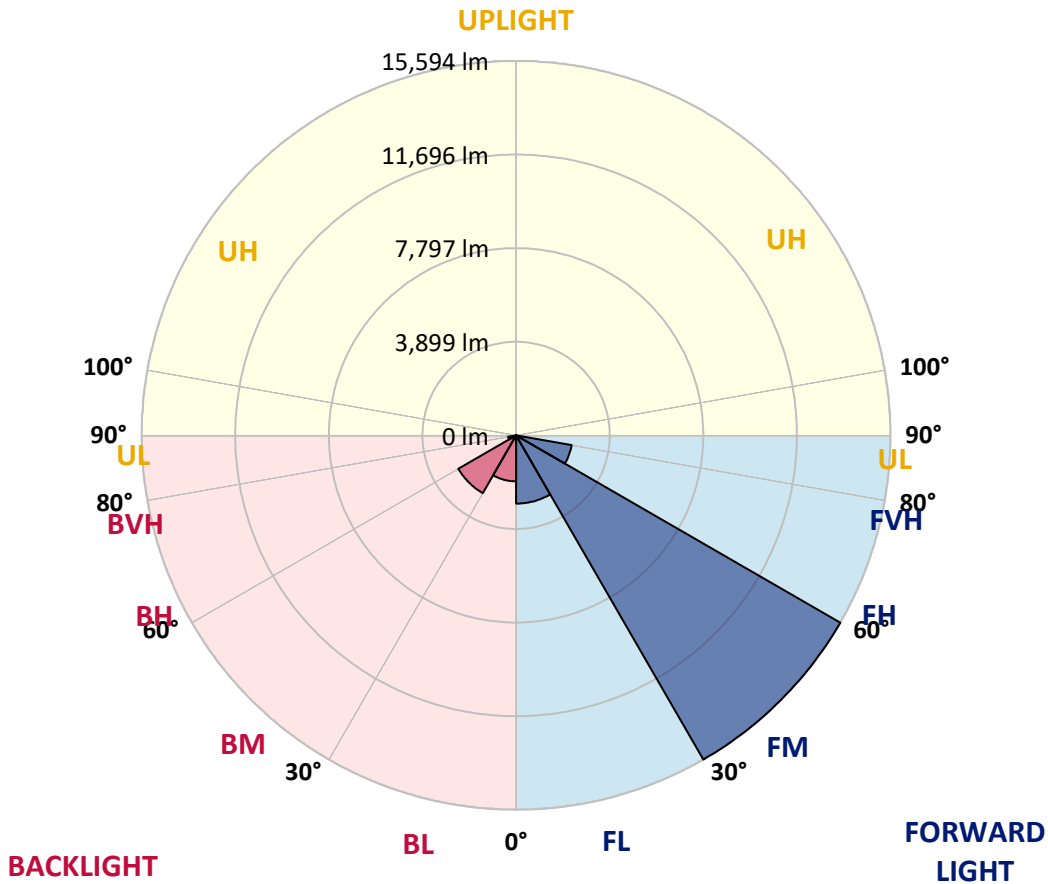
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2842.1	11.0			
FM (30°-60°)	15594.0	60.4			
FH (60°-80°)	2349.9	9.1			G2/5000
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	1916.5	7.4	B3/2500		
BM (30°-60°)	2776.6	10.8	B3/5000		
BH (60°-80°)	334.9	1.3	B1/500		G1/500
BVH (80°-90°)	2.4	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6191.6	6191.6	6191.6	6191.6	6191.6	6191.6	6191.6	6191.6	6191.6	6191.6	6191.6
2.5°	5766.6	5754.8	5778.4	5825.7	5869.9	5884.7	5929.0	5990.9	6029.3	6120.8	6194.6
5°	5506.9	5501.0	5524.6	5566.0	5625.0	5645.6	5713.5	5816.8	5920.1	6079.5	6235.9
7.5°	5270.8	5267.9	5303.3	5394.8	5480.4	5506.9	5589.6	5716.5	5855.2	6100.1	6330.3
10°	4961.0	4963.9	5031.8	5161.6	5318.1	5371.2	5504.0	5687.0	5867.0	6182.8	6501.5
12.5°	4860.6	4866.5	4901.9	5002.3	5173.5	5241.3	5427.3	5704.7	5934.9	6300.8	6722.8
15°	5105.6	5105.6	5076.1	5087.9	5164.6	5226.6	5421.4	5763.7	6050.0	6442.5	6941.2
17.5°	5580.7	5563.0	5489.2	5388.9	5362.3	5383.0	5539.4	5890.6	6212.3	6607.7	7189.1
20°	6224.1	6230.0	6085.4	5875.8	5707.6	5704.7	5799.1	6114.9	6445.4	6805.5	7457.7
22.5°	7003.2	6979.6	6787.8	6501.5	6209.3	6185.7	6224.1	6457.2	6781.9	7118.3	7788.2
25°	7906.3	7894.5	7622.9	7239.3	6852.7	6796.6	6796.6	7026.8	7262.9	7563.9	8183.7
27.5°	8850.6	8850.6	8588.0	8145.3	7631.8	7531.5	7516.7	7788.2	7944.6	8003.7	8517.2
30°	9821.6	9809.8	9550.1	9095.6	8546.7	8443.4	8402.1	8602.7	8714.9	8537.8	8933.3
32.5°	10807.3	10828.0	10565.3	10143.3	9653.4	9585.5	9458.6	9458.6	9550.1	9302.2	9588.4
35°	11866.8	11860.9	11654.3	11368.0	10949.0	10872.2	10662.7	10335.1	10473.8	10364.6	10494.5
37.5°	12802.3	12846.6	12746.2	12533.7	12194.4	12117.6	11772.3	11179.1	11285.4	11456.6	11571.7
40°	13752.6	13788.0	13888.3	13820.5	13392.5	13250.9	12637.0	11663.1	11781.2	12368.5	12699.0
42.5°	14685.2	14702.9	14906.5	15018.7	14446.1	14198.2	13292.2	11958.3	12082.2	13082.7	13661.1
45°	15278.4	15316.7	15653.2	15995.5	15375.8	15036.4	13861.8	12336.0	12389.1	13578.5	14372.3
47.5°	15254.8	15343.3	15974.8	16597.5	16175.5	15809.6	14546.5	12941.0	12852.5	14044.8	14841.6
50°	14779.6	14885.9	15791.9	16780.5	16751.0	16411.6	15307.9	13817.5	13540.1	14457.9	14900.6
52.5°	13793.9	14100.8	15470.2	16804.1	17214.4	17043.2	16249.3	14998.0	14469.7	15051.1	14995.0
55°	11663.1	12040.9	14493.3	16603.5	17633.4	17654.1	17238.0	16228.6	15479.0	16072.2	15576.4
57.5°	8853.6	9154.6	11155.5	14779.6	16939.9	17279.3	17621.6	16877.9	16101.7	16768.7	15712.2
60°	5335.8	5684.0	6985.5	10845.7	13681.8	14260.2	15603.0	15458.4	14522.9	14809.1	12884.9
62.5°	2163.2	2346.2	3225.7	5976.2	8611.6	9151.7	10438.4	10656.8	10426.6	10134.4	7814.8
65°	790.9	864.7	1292.6	2470.2	3960.5	4158.2	4837.0	5223.6	5542.4	4719.0	2906.9
67.5°	489.9	537.1	841.1	1269.0	1440.2	1339.8	1363.5	1626.1	1552.3	959.1	519.4
70°	363.0	401.4	658.1	879.5	581.4	448.6	304.0	324.6	292.2	256.8	253.8
72.5°	250.9	286.3	492.9	519.4	224.3	159.4	112.1	156.4	177.1	174.1	180.0
75°	165.3	191.8	309.9	203.6	56.1	44.3	38.4	82.6	106.2	106.2	109.2
77.5°	97.4	112.1	109.2	41.3	11.8	11.8	8.9	14.8	23.6	26.6	32.5
80°	11.8	8.9	5.9	5.9	5.9	5.9	5.9	5.9	8.9	8.9	8.9
82.5°	3.0	3.0	3.0	5.9	5.9	5.9	5.9	5.9	5.9	8.9	8.9
85°	0.0	0.0	3.0	3.0	5.9	5.9	5.9	5.9	5.9	8.9	8.9
87.5°	0.0	0.0	3.0	3.0	5.9	5.9	5.9	5.9	5.9	8.9	8.9
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°	6191.6	6191.6	6191.6	6191.6	6191.6	6191.6	6191.6	6191.6	6191.6	6191.6	6191.6
2.5°	6250.6	6230.0	6315.6	6377.5	6427.7	6451.3	6418.9	6415.9	6415.9	6351.0	6333.3
5°	6324.4	6333.3	6454.3	6507.4	6516.2	6486.7	6413.0	6362.8	6333.3	6265.4	6227.0
7.5°	6466.1	6495.6	6610.7	6601.8	6522.2	6386.4	6191.6	6041.1	5943.7	5837.5	5772.5
10°	6669.7	6725.8	6796.6	6672.7	6418.9	6073.6	5672.2	5385.9	5214.8	5093.8	5020.0
12.5°	6917.6	6973.7	6950.1	6657.9	6129.6	5512.8	4996.4	4583.2	4385.5	4276.3	4199.6
15°	7168.5	7203.9	7050.4	6480.8	5619.1	4789.8	4214.3	3804.1	3562.1	3473.6	3408.6
17.5°	7425.2	7416.4	7068.1	6132.6	4937.4	3975.3	3408.6	3128.3	3060.4	3045.6	3039.7
20°	7693.8	7614.1	6997.3	5633.8	4116.9	3169.6	2847.9	2865.6	2989.6	3048.6	3060.4
22.5°	8000.7	7800.0	6820.2	4958.0	3278.8	2641.3	2673.8	2847.9	3016.1	3095.8	3107.6
25°	8328.3	7971.2	6525.1	4090.4	2585.3	2428.8	2620.7	2821.3	3001.4	3098.8	3110.6
27.5°	8543.7	8012.5	6041.1	3216.8	2219.3	2346.2	2549.8	2741.7	2927.6	3033.8	3048.6
30°	8776.9	7994.8	5383.0	2479.0	2095.4	2275.4	2452.4	2626.6	2797.7	2915.8	2927.6
32.5°	9119.2	7983.0	4580.3	2012.7	2045.2	2219.3	2349.2	2493.8	2611.8	2679.7	2670.8
35°	9567.8	7968.2	3644.7	1815.0	2015.7	2175.0	2278.3	2346.2	2216.4	2175.0	2183.9
37.5°	10143.3	8003.7	2856.8	1732.4	2006.8	2163.2	2251.8	2057.0	1856.3	1779.6	1767.8
40°	10780.7	8095.1	2178.0	1699.9	2036.3	2192.7	2151.4	1829.7	1581.8	1431.3	1398.9
42.5°	11421.1	8195.5	1723.5	1688.1	2086.5	2275.4	1986.2	1664.5	1292.6	1207.0	1195.2
45°	11896.3	8177.8	1490.4	1667.4	2130.8	2322.6	1941.9	1428.4	1153.9	1115.6	1118.5
47.5°	12135.3	7983.0	1363.5	1620.2	2148.5	2275.4	1832.7	1331.0	1059.5	1100.8	1136.2
50°	12008.4	7478.3	1245.4	1528.7	2110.1	2213.4	1658.6	1257.2	1012.3	1183.4	1263.1
52.5°	11855.0	6858.6	1115.6	1387.1	2018.6	2127.8	1590.7	1236.6	982.7	1142.1	1201.1
55°	12058.6	6466.1	903.1	1168.7	1838.6	1927.1	1537.6	1233.6	914.9	888.3	879.5
57.5°	11772.3	5684.0	646.3	841.1	1410.7	1525.8	1499.2	1212.9	811.6	808.6	820.4
60°	9098.6	3467.7	442.7	534.2	864.7	973.9	1360.5	1159.8	699.4	643.4	646.3
62.5°	5170.5	1475.6	304.0	330.5	442.7	525.3	1038.8	1053.6	646.3	613.8	646.3
65°	1800.2	528.3	236.1	221.3	244.9	280.4	596.1	814.5	587.3	531.2	537.1
67.5°	371.9	262.7	209.5	183.0	183.0	183.0	304.0	507.6	484.0	422.0	427.9
70°	236.1	224.3	183.0	156.4	150.5	138.7	174.1	280.4	333.5	306.9	309.9
72.5°	174.1	171.2	144.6	126.9	112.1	100.3	109.2	138.7	171.2	177.1	180.0
75°	106.2	109.2	94.4	79.7	70.8	62.0	64.9	64.9	64.9	59.0	64.9
77.5°	32.5	35.4	29.5	23.6	20.7	20.7	20.7	17.7	14.8	8.9	8.9
80°	8.9	8.9	8.9	8.9	8.9	5.9	5.9	3.0	3.0	0.0	0.0
82.5°	8.9	8.9	8.9	8.9	5.9	5.9	3.0	3.0	0.0	0.0	0.0
85°	8.9	8.9	8.9	8.9	5.9	5.9	3.0	3.0	0.0	0.0	0.0
87.5°	8.9	8.9	8.9	8.9	5.9	5.9	3.0	3.0	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)