

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: P640332

Luminaire Tested: GWS-SA5D-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-760-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22826.5 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

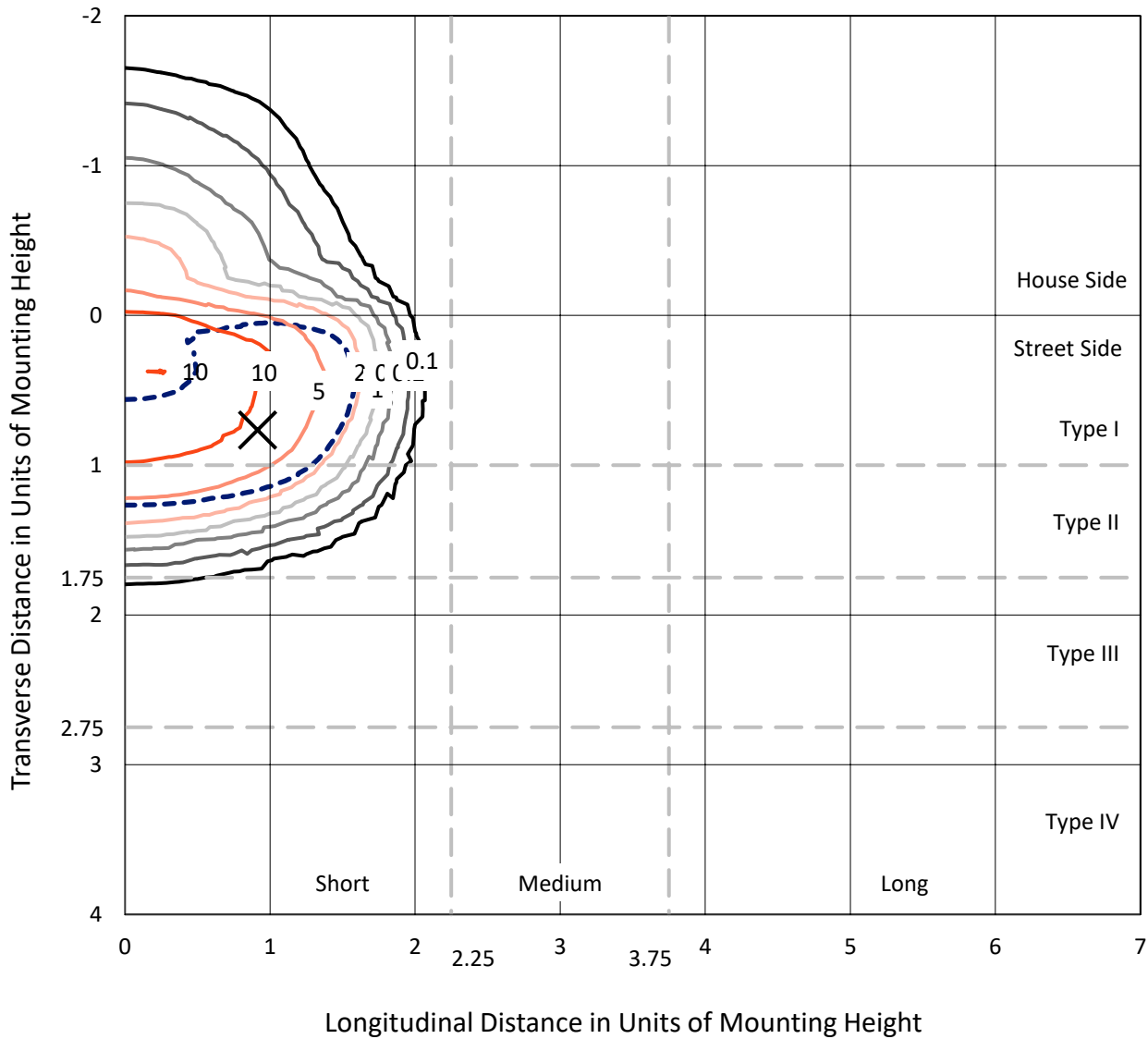
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

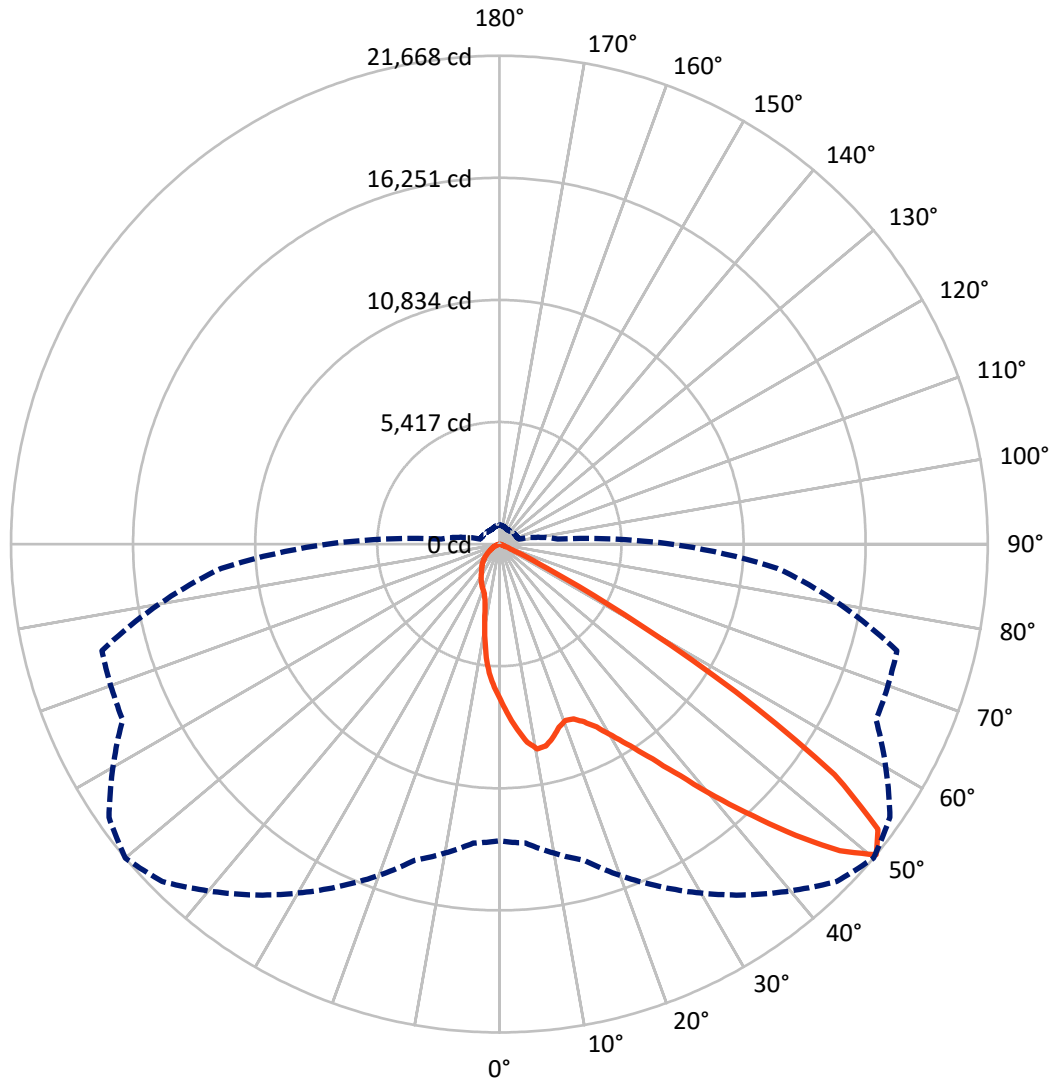
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2932.8	0.0	2932.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	19893.7	0.0	19893.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	22826.5	0.0	22826.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.5	2.8
10°-20°	1655.2	7.3
20°-30°	2731.6	12.0
30°-40°	4507.8	19.7
40°-50°	7132.3	31.2
50°-60°	5400.0	23.7
60°-70°	675.8	3.0
70°-80°	76.5	0.3
80°-90°	5.8	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°	22826.5	100.0
0°-180°	22826.5	100.0

Coefficient of Utilization



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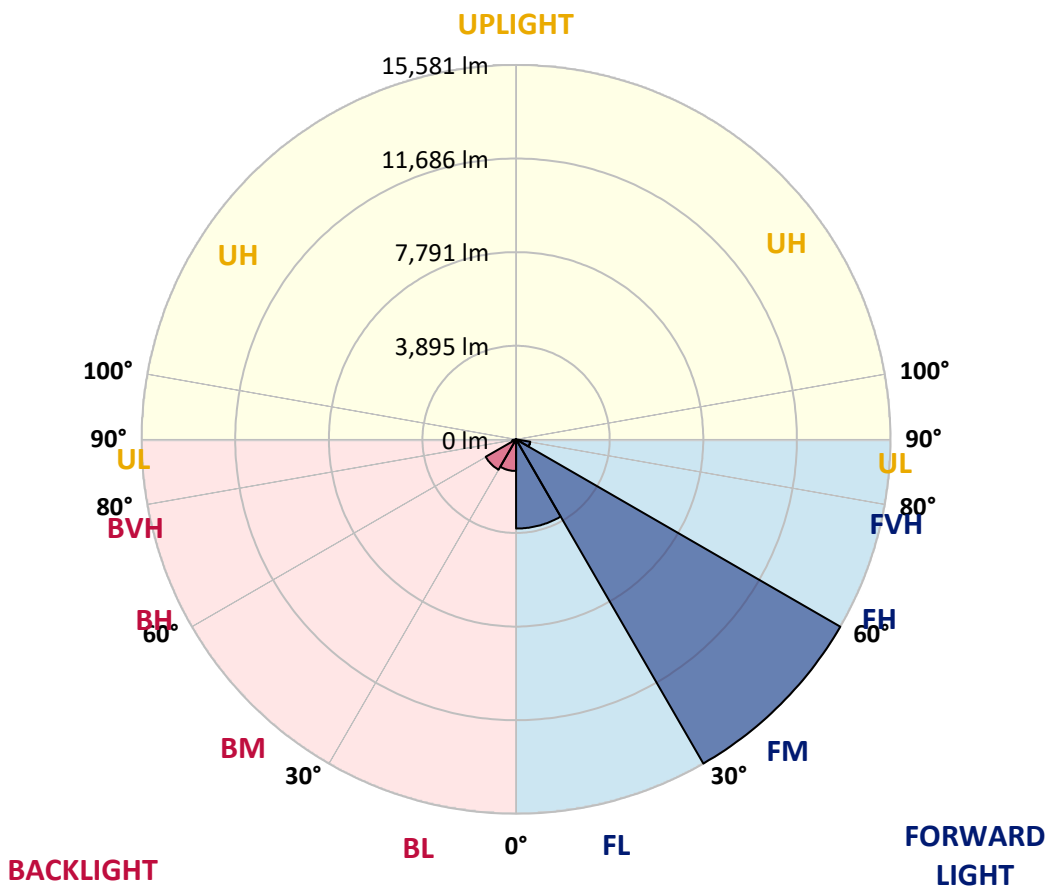
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3711.9	16.3			
FM (30°-60°)	15581.5	68.3			
FH (60°-80°)	597.5	2.6			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	1316.4	5.8	B3/2500		
BM (30°-60°)	1458.6	6.4	B2/2500		
BH (60°-80°)	154.8	0.7	B1/500		G1/500
BVH (80°-90°)	3.1	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5
2.5°	7880.2	7943.2	7925.8	7843.2	7754.2	7691.2	7593.4	7563.0	7341.4	7187.1	7024.2
5°	8831.8	8851.3	8829.6	8729.7	8573.2	8423.3	8262.6	8169.1	7797.6	7463.0	7121.9
7.5°	9059.9	9036.0	9077.3	9127.3	9105.5	9040.4	8870.9	8768.8	8325.6	7780.2	7263.1
10°	8347.3	8293.0	8447.2	8705.8	8977.4	9283.7	9240.2	9248.9	8840.5	8180.0	7447.8
12.5°	7402.2	7380.5	7495.6	7795.4	8327.7	9023.0	9190.3	9470.5	9311.9	8612.4	7658.6
15°	6987.2	6998.1	7067.6	7256.6	7639.0	8503.7	8905.7	9411.9	9733.4	9031.7	7891.0
17.5°	7050.2	7089.3	7087.2	7150.2	7382.6	8075.7	8545.0	9227.2	10059.3	9514.0	8158.3
20°	7478.2	7517.3	7458.7	7410.9	7489.1	7967.1	8356.0	9040.4	10278.8	10000.7	8440.7
22.5°	8119.2	8164.8	8025.7	7888.9	7838.9	8145.2	8427.7	8964.3	10446.1	10446.1	8692.7
25°	8894.8	8957.8	8742.7	8499.4	8360.3	8521.1	8734.0	9136.0	10617.7	10845.8	8864.4
27.5°	9761.7	9763.9	9579.2	9305.4	9044.7	9064.3	9192.5	9522.7	10806.7	11276.0	8999.1
30°	10737.2	10743.7	10498.2	10170.1	9842.1	9753.0	9861.6	10111.5	11200.0	11817.0	9185.9
32.5°	11997.3	12027.8	11675.8	11193.5	10767.6	10600.3	10663.3	10926.2	11825.7	12494.9	9466.2
35°	13700.7	13733.3	13214.0	12577.4	11899.6	11647.5	11710.5	11975.6	12731.7	13457.3	9913.8
37.5°	15382.3	15425.8	14900.0	14306.9	13377.0	12959.8	13025.0	13277.0	14091.8	14787.0	10630.7
40°	16544.7	16603.3	16440.4	16040.6	15178.1	14630.6	14708.8	14800.0	15588.7	16377.4	11560.6
42.5°	17157.4	17239.9	17309.4	17513.7	17059.6	16601.2	16468.6	16475.2	17111.7	17998.2	12527.5
45°	17194.3	17274.7	17631.0	18419.7	18765.1	18669.5	18428.4	18265.4	18274.1	19078.0	13131.5
47.5°	15999.3	16149.3	16816.3	18361.0	19660.2	20453.3	20331.6	19944.9	18762.9	19149.7	13066.3
50°	13168.4	13316.1	14528.5	16751.1	19008.5	21165.9	21667.8	21148.5	18443.6	18256.7	12394.9
52.5°	9564.0	9579.2	10365.7	12962.0	16366.5	19851.4	21033.4	20983.4	17956.9	17174.7	11478.1
55°	4543.0	4488.7	5372.9	7315.3	11319.5	16055.8	18048.1	18613.0	17266.0	16392.6	10767.6
57.5°	1323.1	1349.2	1742.5	2854.9	5661.9	10261.4	12360.2	13411.7	14172.1	13476.9	8351.6
60°	593.1	595.3	662.7	869.1	1885.9	4773.3	6389.7	7691.2	8473.3	7851.9	4143.2
62.5°	430.2	432.4	458.4	491.0	640.9	1616.4	2396.4	3193.8	3252.4	2129.2	1049.4
65°	358.5	358.5	362.8	362.8	384.6	577.9	727.8	938.6	790.8	586.6	410.6
67.5°	289.0	291.1	295.5	295.5	289.0	289.0	312.9	343.3	367.2	454.1	378.0
70°	226.0	223.8	223.8	226.0	219.4	186.8	202.1	230.3	252.0	354.1	328.1
72.5°	176.0	178.2	176.0	167.3	152.1	110.8	119.5	149.9	160.8	221.6	221.6
75°	132.5	134.7	126.0	95.6	63.0	34.8	45.6	73.9	93.4	108.6	80.4
77.5°	17.4	17.4	13.0	13.0	10.9	13.0	13.0	17.4	26.1	26.1	19.6
80°	2.2	2.2	2.2	4.3	6.5	8.7	8.7	8.7	8.7	10.9	10.9
82.5°	2.2	2.2	2.2	2.2	6.5	6.5	8.7	8.7	8.7	8.7	8.7
85°	0.0	0.0	0.0	2.2	4.3	6.5	6.5	8.7	8.7	8.7	8.7
87.5°	0.0	0.0	0.0	2.2	4.3	6.5	6.5	6.5	8.7	8.7	8.7
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°	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5	6915.5
2.5°	6926.4	6800.4	6648.3	6544.0	6396.3	6298.5	6159.4	6066.0	5985.6	5922.6	5957.4
5°	6928.6	6728.7	6418.0	6152.9	5864.0	5598.9	5314.3	5090.5	4888.4	4797.2	4847.2
7.5°	6972.0	6685.2	6209.4	5737.9	5183.9	4636.4	4123.7	3706.5	3500.1	3402.4	3432.8
10°	7056.7	6665.7	5976.9	5194.8	4295.3	3547.9	3050.4	2767.9	2652.8	2592.0	2602.8
12.5°	7135.0	6652.6	5674.9	4480.0	3389.3	2752.7	2494.2	2455.1	2479.0	2481.2	2479.0
15°	7241.4	6628.7	5301.2	3745.6	2711.5	2379.0	2385.6	2442.1	2498.5	2515.9	2511.6
17.5°	7354.4	6591.8	4818.9	3041.7	2300.8	2270.4	2346.5	2422.5	2479.0	2487.7	2489.8
20°	7471.7	6515.8	4269.2	2483.3	2109.6	2187.9	2272.6	2329.1	2370.4	2383.4	2387.7
22.5°	7526.0	6355.0	3634.8	2083.6	1981.5	2085.7	2148.7	2222.6	2235.6	2187.9	2196.5
25°	7497.8	6083.4	3015.6	1814.2	1853.3	1957.6	2051.0	2014.0	1959.7	1925.0	1935.8
27.5°	7408.7	5722.7	2409.5	1616.4	1716.4	1848.9	1859.8	1818.5	1809.8	1781.6	1790.3
30°	7313.1	5307.8	1938.0	1457.8	1577.3	1716.4	1683.8	1699.0	1701.2	1668.6	1679.5
32.5°	7254.5	4873.2	1542.6	1351.4	1488.3	1514.3	1579.5	1609.9	1612.1	1536.1	1549.1
35°	7274.0	4445.2	1305.8	1264.5	1405.7	1399.2	1490.4	1507.8	1381.8	1277.5	1288.4
37.5°	7432.6	4049.8	1171.1	1197.1	1262.3	1312.3	1381.8	1266.7	1238.4	1190.6	1197.1
40°	7728.1	3713.0	1090.7	1155.8	1164.5	1244.9	1138.5	1153.7	1155.8	1125.4	1131.9
42.5°	8073.5	3432.8	1042.9	1131.9	1110.2	1123.3	1016.8	1047.2	1079.8	1066.8	1068.9
45°	8247.4	3159.0	1001.6	1049.4	1055.9	932.1	908.2	940.8	982.0	988.6	990.7
47.5°	8093.1	2898.3	958.1	929.9	973.3	849.5	821.3	832.1	879.9	906.0	910.3
50°	7621.6	2598.5	893.0	823.4	799.5	762.6	736.5	738.7	793.0	838.6	847.3
52.5°	6959.0	2285.6	786.5	697.4	643.1	671.3	677.9	664.8	714.8	760.4	769.1
55°	6315.9	1894.5	623.5	567.1	517.1	577.9	595.3	577.9	593.1	623.5	625.7
57.5°	4447.4	1071.1	478.0	469.3	428.0	495.4	523.6	497.5	471.5	491.0	495.4
60°	2061.8	560.5	367.2	367.2	356.3	425.8	473.6	436.7	386.7	395.4	401.9
62.5°	645.3	354.1	269.4	254.2	291.1	362.8	401.9	365.0	306.3	306.3	315.0
65°	365.0	304.2	212.9	195.5	236.8	291.1	315.0	275.9	223.8	219.4	219.4
67.5°	338.9	289.0	189.0	158.6	167.3	186.8	195.5	169.5	154.3	152.1	154.3
70°	280.3	241.2	152.1	108.6	102.1	99.9	104.3	97.8	93.4	95.6	102.1
72.5°	173.8	145.6	95.6	65.2	56.5	54.3	54.3	54.3	52.1	52.1	52.1
75°	63.0	54.3	43.5	32.6	28.2	26.1	26.1	28.2	26.1	23.9	21.7
77.5°	19.6	17.4	17.4	17.4	15.2	13.0	10.9	10.9	8.7	6.5	6.5
80°	10.9	10.9	10.9	10.9	8.7	8.7	6.5	4.3	2.2	2.2	0.0
82.5°	10.9	10.9	10.9	8.7	8.7	8.7	6.5	4.3	2.2	0.0	0.0
85°	8.7	8.7	8.7	8.7	8.7	8.7	6.5	4.3	2.2	0.0	0.0
87.5°	8.7	8.7	8.7	8.7	8.7	8.7	6.5	4.3	2.2	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)