

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: P640223

Luminaire Tested: GWS-SA5D-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-740-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27253.1 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

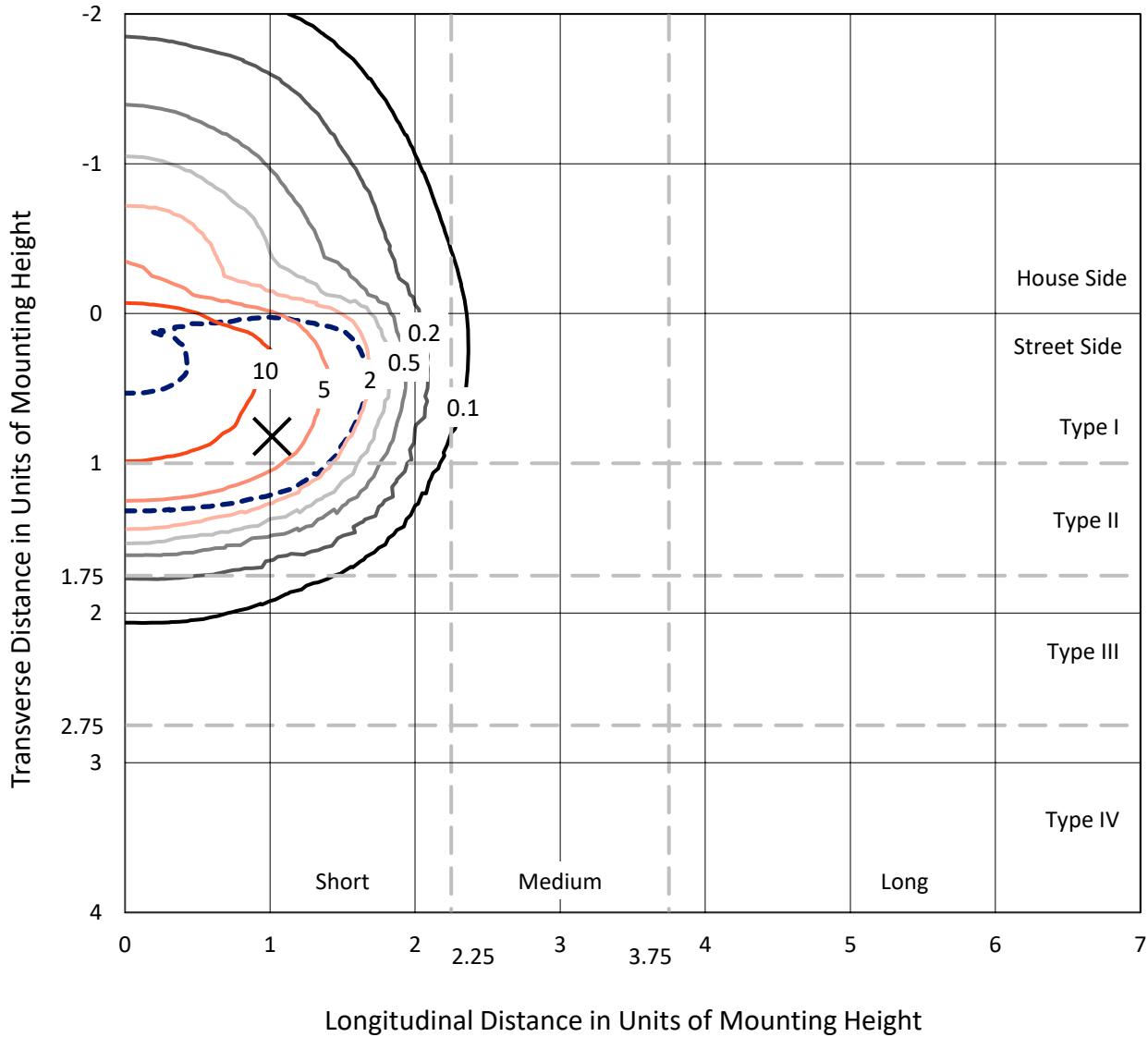
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

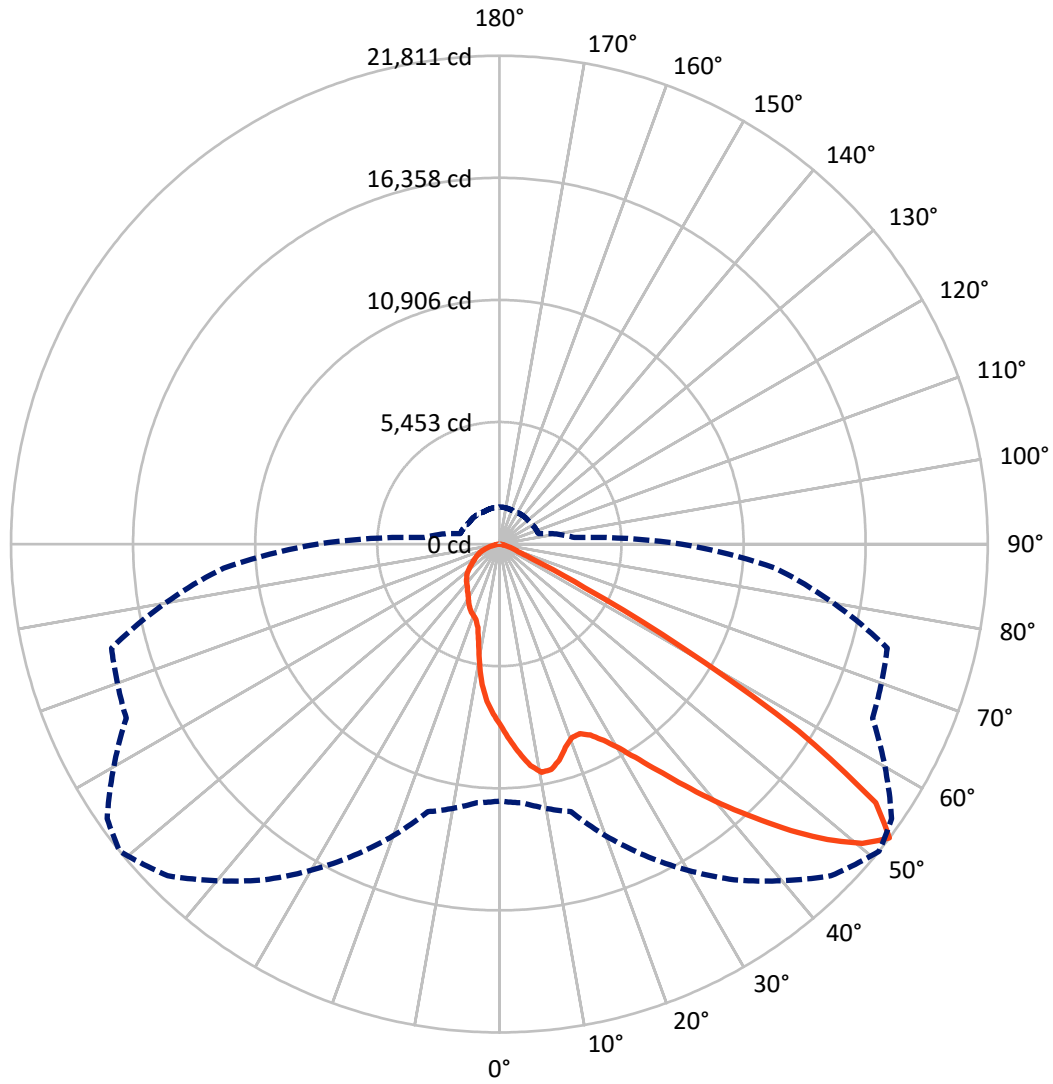
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5310.0	0.0	5310.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	21943.1	0.0	21943.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	27253.1	0.0	27253.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.2	2.8
10°-20°	1967.5	7.2
20°-30°	3199.0	11.7
30°-40°	5069.7	18.6
40°-50°	7646.3	28.1
50°-60°	6614.6	24.3
60°-70°	1499.6	5.5
70°-80°	442.2	1.6
80°-90°	57.0	0.2
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°	27253.1	100.0
0°-180°	27253.1	100.0

Coefficient of Utilization



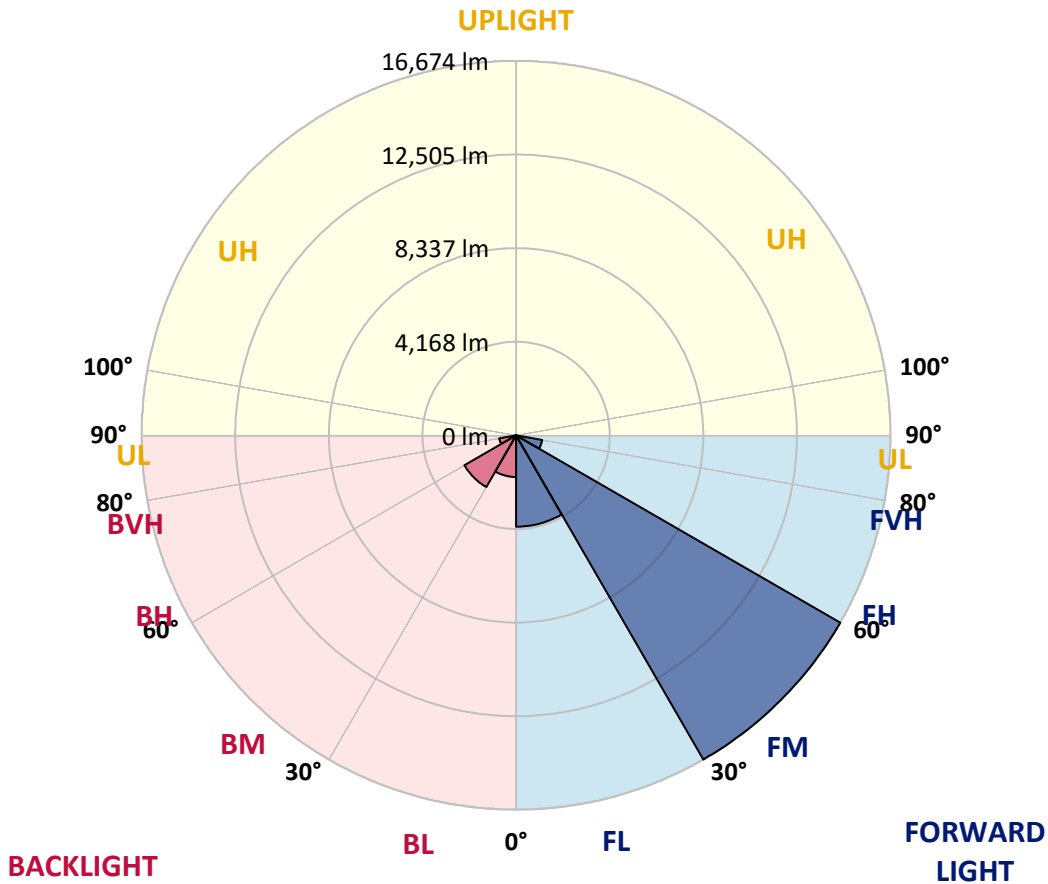
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4067.6	14.9			
FM (30°-60°)	16673.8	61.2			
FH (60°-80°)	1180.2	4.3			G1/1800
FVH (80°-90°)	21.5	0.1			G1/100
BL (0°-30°)	1856.2	6.8	B3/2500		
BM (30°-60°)	2656.8	9.7	B3/5000		
BH (60°-80°)	761.6	2.8	B2/1000		G2/1000
BVH (80°-90°)	35.5	0.1			G1/100
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°	51°	55°	65°	75°	85°
0°	8114.6	8114.6	8114.6	8114.6	8114.6	8114.6	8114.6	8114.6	8114.6	8114.6	8114.6
2.5°	9042.8	9094.5	9014.8	8984.6	8935.1	8849.0	8749.9	8721.9	8508.7	8368.7	8211.5
5°	9951.6	9979.6	9915.0	9850.4	9727.6	9574.7	9383.1	9342.1	8954.5	8633.6	8299.8
7.5°	10154.0	10143.3	10199.3	10235.9	10220.8	10160.5	9990.4	9910.7	9447.7	8939.4	8446.3
10°	9352.9	9292.6	9499.3	9744.9	10039.9	10380.2	10360.8	10354.3	9951.6	9350.8	8633.6
12.5°	8291.2	8261.0	8429.0	8737.0	9294.8	10048.5	10330.6	10550.3	10406.0	9742.7	8842.5
15°	7683.9	7673.1	7787.3	8009.1	8452.7	9404.6	10007.6	10442.6	10795.8	10162.6	9064.3
17.5°	7574.1	7580.5	7619.3	7746.3	8065.1	8849.0	9546.7	10154.0	11099.4	10623.5	9342.1
20°	7894.9	7938.0	7871.3	7890.6	8062.9	8648.7	9232.3	9863.3	11293.3	11086.5	9641.5
22.5°	8607.8	8592.7	8446.3	8360.1	8362.3	8771.4	9197.8	9727.6	11420.3	11536.6	9912.8
25°	9415.4	9398.1	9223.7	9032.0	8911.4	9105.2	9445.5	9871.9	11534.5	11947.9	10130.3
27.5°	10369.4	10315.5	10121.7	9876.2	9609.2	9693.2	9923.6	10261.7	11711.0	12352.8	10274.6
30°	11293.3	11355.7	11077.9	10787.2	10505.1	10453.4	10586.9	10892.7	12070.7	12826.6	10446.9
32.5°	12518.6	12497.1	12189.1	11810.1	11407.4	11368.6	11474.2	11754.1	12716.8	13481.3	10709.6
35°	14002.4	14006.7	13569.6	13057.0	12484.2	12380.8	12557.4	12828.7	13679.4	14368.5	11125.3
37.5°	15544.4	15537.9	15156.7	14575.3	13793.5	13647.1	13849.5	14052.0	14883.2	15576.7	11771.3
40°	16625.5	16668.5	16489.8	16184.0	15443.2	15085.7	15264.4	15404.4	16192.6	16998.0	12622.0
42.5°	17239.2	17303.8	17342.6	17525.7	17135.9	16754.7	16690.1	16763.3	17362.0	18318.2	13421.0
45°	17370.6	17456.7	17738.9	18417.2	18568.0	18460.3	18249.3	18072.7	18234.2	19255.0	13944.3
47.5°	16791.3	16942.0	17545.0	18731.6	19612.5	19950.6	19715.8	19446.6	18738.1	19496.2	13890.5
50°	14495.6	14672.2	16031.1	18089.9	19761.1	20992.9	21014.4	20616.0	18677.8	18800.6	13214.2
52.5°	11476.3	11596.9	12374.3	15335.5	18303.1	20949.8	21811.2	21384.8	18387.1	17930.5	12367.9
55°	6859.1	7052.9	7778.7	10117.4	14258.7	18568.0	20402.8	20609.6	18244.9	17200.5	11790.7
57.5°	2315.1	2409.8	3103.3	4468.6	8403.2	13595.4	15764.0	16603.9	16563.0	16084.9	10664.4
60°	1102.6	1124.2	1264.1	1694.9	3363.9	7104.6	9331.4	10300.5	11183.4	11271.7	6635.1
62.5°	839.9	852.8	923.9	1016.5	1352.4	2993.4	4277.0	5017.8	5360.2	4600.0	2416.3
65°	702.1	712.8	766.7	824.8	919.6	1296.4	1641.0	1893.0	1705.6	1328.7	1152.2
67.5°	585.8	594.4	635.3	697.8	762.4	867.9	911.0	936.8	982.0	1102.6	1059.6
70°	458.7	467.3	510.4	564.2	626.7	652.5	693.4	719.3	809.7	964.8	960.5
72.5°	353.2	364.0	387.6	422.1	473.8	499.6	544.9	575.0	626.7	751.6	803.3
75°	258.4	264.9	286.4	297.2	303.7	297.2	342.4	376.9	445.8	493.2	506.1
77.5°	105.5	118.4	114.1	114.1	135.7	163.7	187.4	208.9	256.3	284.3	286.4
80°	43.1	47.4	56.0	62.5	75.4	96.9	112.0	120.6	142.1	159.4	172.3
82.5°	25.8	28.0	32.3	34.5	43.1	56.0	64.6	71.1	88.3	105.5	112.0
85°	12.9	12.9	15.1	17.2	21.5	25.8	30.1	34.5	45.2	56.0	62.5
87.5°	2.2	2.2	2.2	4.3	6.5	8.6	10.8	12.9	15.1	17.2	21.5
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°	8114.6	8114.6	8114.6	8114.6	8114.6	8114.6	8114.6	8114.6	8114.6	8114.6	8114.6
2.5°	8118.9	8002.6	7866.9	7759.3	7634.4	7541.8	7410.4	7328.6	7251.0	7186.4	7139.0
5°	8127.5	7931.6	7649.4	7399.6	7141.2	6895.7	6643.7	6439.1	6256.1	6103.2	6090.3
7.5°	8177.1	7894.9	7453.5	7016.3	6512.4	6025.7	5539.0	5142.7	4841.2	4684.0	4651.7
10°	8261.0	7890.6	7253.2	6555.4	5696.2	4912.3	4335.1	4033.6	3859.2	3796.7	3775.2
12.5°	8349.3	7879.9	6996.9	5905.1	4712.0	4025.0	3708.4	3671.8	3704.1	3708.4	3706.3
15°	8457.0	7873.4	6673.9	5142.7	3992.7	3613.7	3635.2	3712.7	3788.1	3805.3	3805.3
17.5°	8588.4	7858.3	6234.6	4397.6	3542.6	3534.0	3648.1	3751.5	3822.6	3835.5	3835.5
20°	8726.2	7819.6	5694.0	3790.3	3359.6	3484.5	3607.2	3686.9	3736.4	3753.7	3755.8
22.5°	8821.0	7716.2	5071.6	3340.2	3245.4	3389.7	3478.0	3559.8	3559.8	3516.8	3503.8
25°	8840.4	7494.4	4397.6	3032.2	3109.7	3243.3	3333.7	3286.3	3198.0	3163.6	3161.4
27.5°	8769.3	7171.3	3732.1	2812.5	2946.1	3079.6	3064.5	2995.6	2956.8	2922.4	2935.3
30°	8683.1	6783.7	3155.0	2631.6	2756.6	2887.9	2836.2	2812.5	2784.6	2745.8	2754.4
32.5°	8625.0	6350.8	2711.3	2491.7	2629.5	2651.0	2687.6	2685.5	2659.6	2586.4	2582.1
35°	8642.2	5913.7	2414.1	2377.5	2524.0	2515.4	2584.3	2571.3	2392.6	2291.4	2284.9
37.5°	8780.1	5493.7	2239.7	2287.1	2356.0	2409.8	2470.1	2315.1	2252.6	2188.0	2192.3
40°	9042.8	5103.9	2144.9	2237.5	2254.8	2334.5	2194.5	2192.3	2164.3	2106.2	2104.0
42.5°	9340.0	4774.4	2080.3	2213.9	2190.2	2205.2	2056.6	2073.9	2071.7	2035.1	2024.3
45°	9520.9	4470.8	2028.7	2125.6	2132.0	1981.3	1936.0	1955.4	1966.2	1946.8	1944.7
47.5°	9333.5	4121.9	1974.8	1989.9	2045.9	1880.1	1824.1	1826.2	1845.6	1847.8	1839.1
50°	8808.1	3732.1	1910.2	1873.6	1837.0	1774.5	1722.8	1712.1	1731.5	1750.8	1757.3
52.5°	8129.7	3359.6	1802.5	1746.5	1660.4	1660.4	1636.7	1602.2	1628.1	1653.9	1662.5
55°	7632.2	3083.9	1649.6	1587.2	1492.4	1524.7	1520.4	1490.3	1524.7	1544.1	1550.6
57.5°	6613.6	2478.7	1451.5	1432.1	1352.4	1391.2	1399.8	1361.0	1343.8	1348.1	1354.6
60°	3925.9	1600.1	1309.4	1307.2	1236.1	1281.4	1307.2	1268.4	1216.8	1223.2	1231.8
62.5°	1761.6	1223.2	1130.6	1122.0	1119.9	1178.0	1206.0	1169.4	1096.2	1102.6	1111.2
65°	1109.1	1057.4	982.0	982.0	1016.5	1066.0	1087.5	1057.4	973.4	962.6	971.3
67.5°	1029.4	984.2	906.6	891.6	908.8	949.7	951.9	893.7	844.2	835.6	835.6
70°	923.9	889.4	814.0	783.9	777.4	775.3	768.8	753.7	721.4	712.8	717.1
72.5°	764.5	740.8	693.4	661.1	643.9	641.8	615.9	603.0	575.0	570.7	568.5
75°	506.1	512.5	512.5	508.2	493.2	486.7	458.7	445.8	413.5	400.6	398.4
77.5°	299.3	305.8	314.4	316.6	314.4	314.4	288.6	273.5	241.2	224.0	219.7
80°	183.1	187.4	191.7	198.1	189.5	183.1	159.4	144.3	129.2	118.4	116.3
82.5°	118.4	122.8	124.9	129.2	124.9	116.3	96.9	88.3	77.5	68.9	66.8
85°	66.8	68.9	73.2	73.2	66.8	60.3	49.5	43.1	36.6	32.3	32.3
87.5°	23.7	23.7	23.7	25.8	21.5	19.4	12.9	8.6	6.5	6.5	6.5
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)