

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: P640248

Luminaire Tested: GWS-SA5D-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-740-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17844.3 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

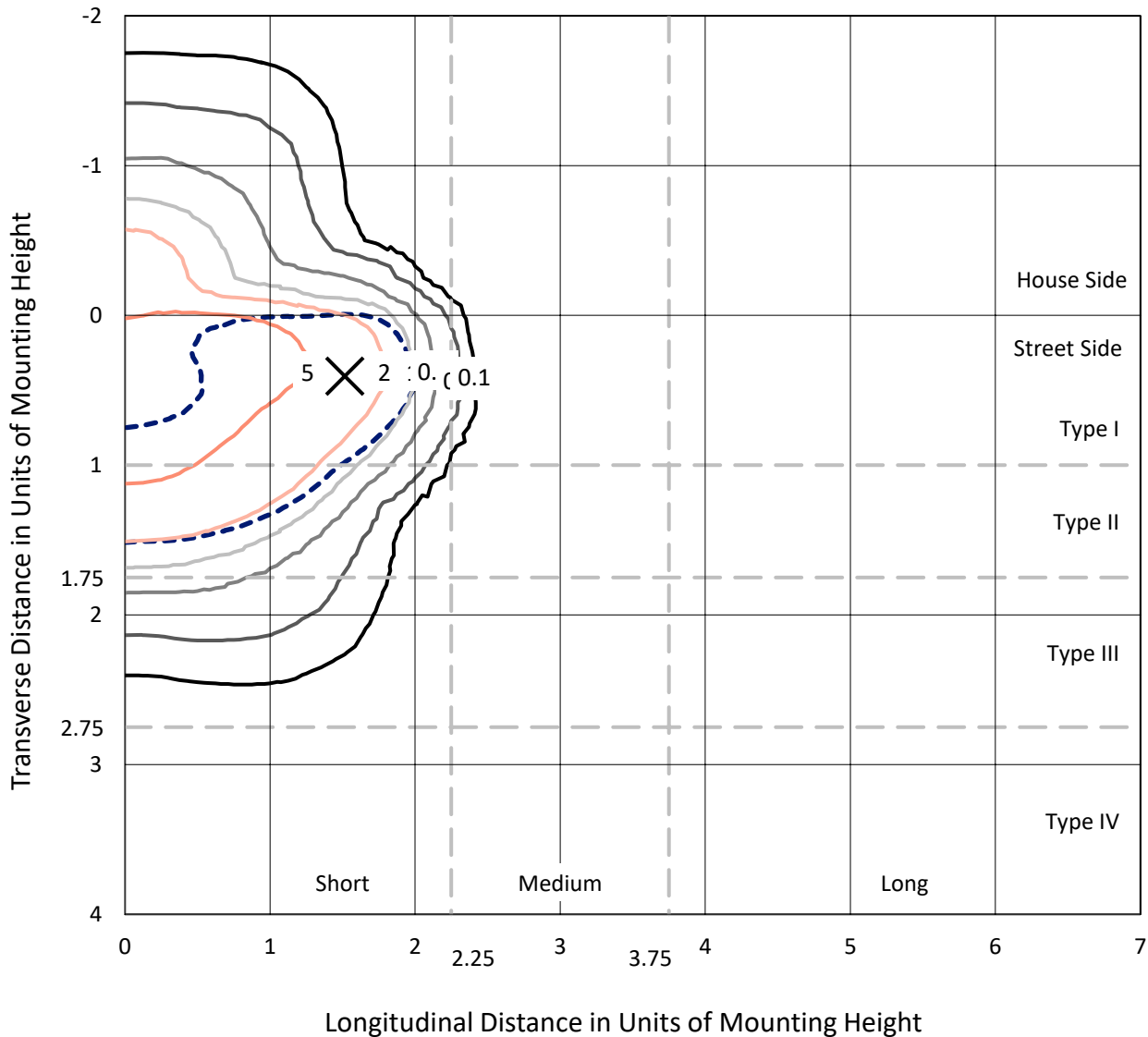
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

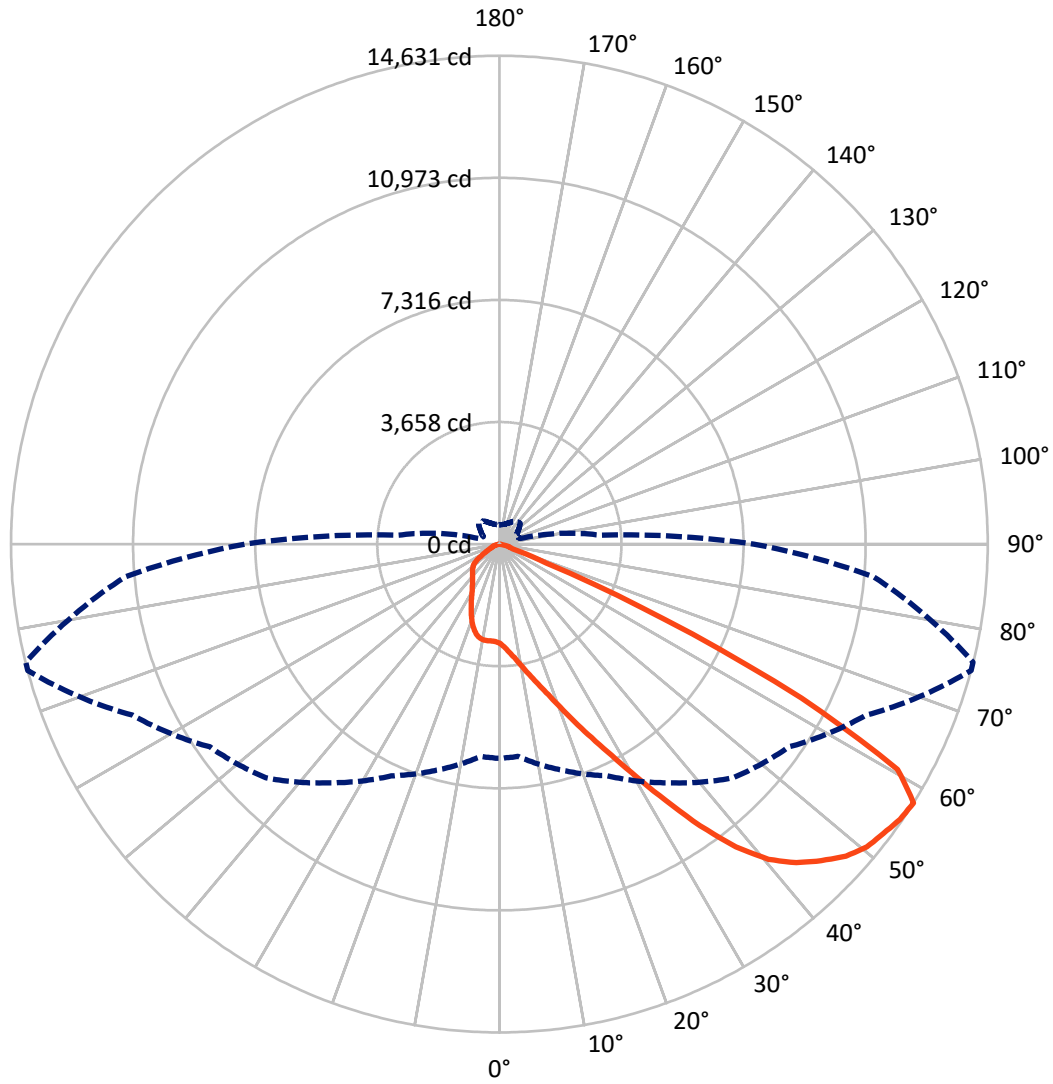
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2914.8	0.0	2914.8
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	14929.5	0.0	14929.5
	% Fixture	83.7	0.0	83.7
Total	Lumens	17844.3	0.0	17844.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.8	1.7
10°-20°	983.8	5.5
20°-30°	1801.6	10.1
30°-40°	2988.9	16.8
40°-50°	4564.8	25.6
50°-60°	5129.4	28.7
60°-70°	1891.9	10.6
70°-80°	180.8	1.0
80°-90°	0.1	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°	17844.3	100.0
0°-180°	17844.3	100.0

Coefficient of Utilization



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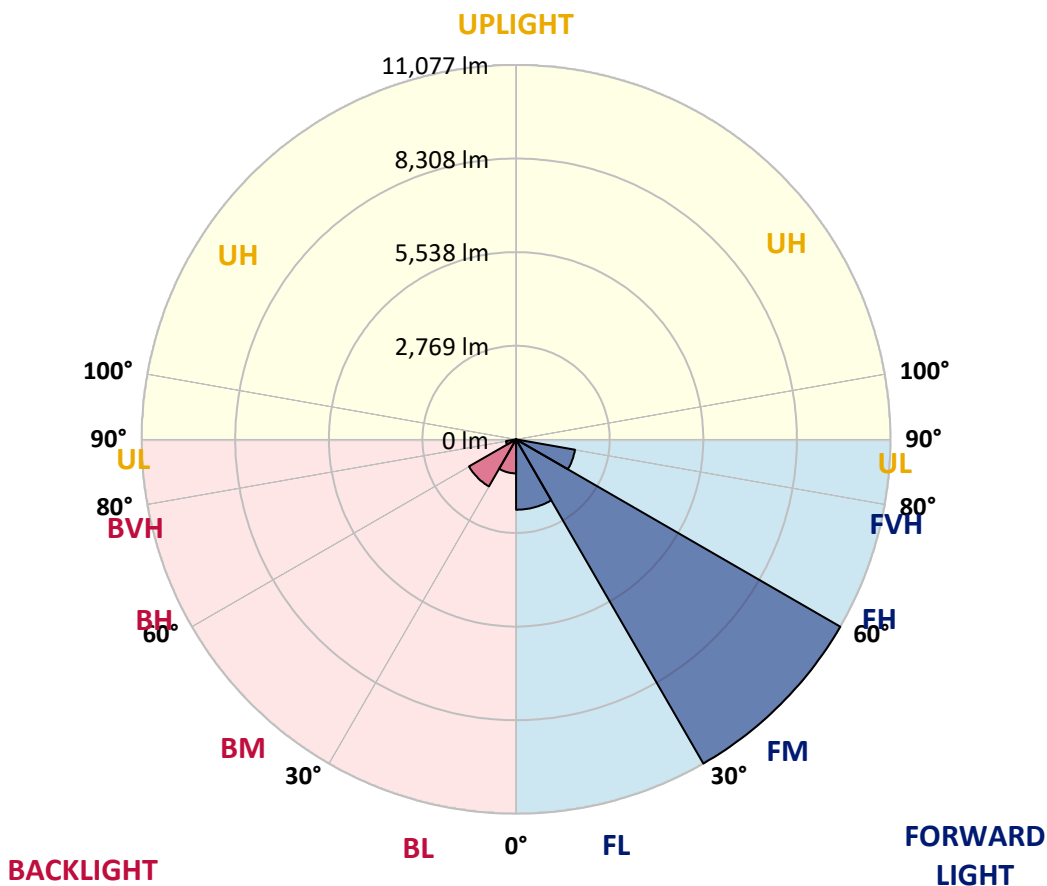
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2082.4	11.7			
FM (30°-60°)	11076.9	62.1			
FH (60°-80°)	1770.1	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1005.8	5.6	B3/2500		
BM (30°-60°)	1606.3	9.0	B2/2500		
BH (60°-80°)	302.7	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	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°	55°	65°	75°	76°	85°
0°	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2
2.5°	3325.1	3359.5	3348.7	3327.2	3314.3	3269.1	3241.1	3159.2	3101.1	3094.6	3040.8
5°	3745.0	3738.5	3729.9	3704.1	3682.5	3611.5	3527.5	3389.7	3266.9	3251.8	3137.7
7.5°	3975.4	3979.7	3984.0	3979.7	3964.7	3910.8	3818.2	3656.7	3469.3	3456.4	3275.5
10°	4070.2	4078.8	4100.3	4141.2	4177.9	4173.5	4119.7	3953.9	3723.5	3701.9	3458.6
12.5°	4115.4	4126.2	4160.6	4238.2	4337.2	4414.7	4423.4	4274.8	4020.6	3986.2	3676.1
15°	4177.9	4188.6	4231.7	4332.9	4477.2	4630.1	4729.2	4634.4	4350.1	4313.5	3915.1
17.5°	4205.8	4220.9	4283.4	4416.9	4604.3	4839.0	5063.0	5054.3	4739.9	4711.9	4192.9
20°	4259.7	4270.5	4326.4	4470.7	4696.9	5035.0	5411.8	5547.5	5215.9	5174.9	4528.9
22.5°	4429.8	4434.1	4460.0	4550.4	4761.5	5177.1	5767.2	6122.5	5777.9	5724.1	4905.7
25°	4707.6	4705.5	4716.2	4731.3	4886.4	5321.4	6109.6	6770.7	6421.8	6363.7	5332.1
27.5°	5060.8	5060.8	5086.6	5043.6	5106.0	5500.1	6447.7	7515.8	7171.3	7089.4	5799.5
30°	5476.4	5474.3	5534.6	5465.7	5485.0	5782.2	6811.6	8327.7	8075.7	7974.5	6337.8
32.5°	6040.7	6027.7	6096.6	6001.9	5937.3	6208.6	7255.2	9176.2	9159.0	9003.9	7014.1
35°	6753.5	6731.9	6753.5	6660.9	6544.6	6805.2	7836.7	10022.5	10360.6	10197.0	7819.5
37.5°	7462.0	7530.9	7554.6	7395.2	7300.5	7561.0	8536.6	10780.6	11508.5	11338.3	8657.2
40°	8297.6	8276.0	8357.9	8179.1	8118.8	8407.4	9221.4	11344.8	12417.3	12255.7	9402.3
42.5°	8913.5	8952.2	9053.4	8954.4	8907.0	9178.4	9796.4	11674.3	13048.2	12888.9	9934.2
45°	9652.1	9680.1	9718.9	9637.1	9587.5	9854.6	10212.0	11818.6	13528.5	13356.2	10291.7
47.5°	10451.1	10472.6	10472.6	10304.6	10145.3	10255.1	10489.9	11900.4	13970.0	13804.1	10556.6
50°	11023.9	11034.7	11129.5	11011.0	10664.3	10494.2	10616.9	11980.1	14262.8	14107.8	10642.8
52.5°	10515.7	10502.8	10815.0	11060.5	11153.1	10815.0	10836.6	12096.4	14405.0	14271.5	10711.7
55°	8855.3	8833.8	9273.1	9869.6	10685.8	11118.7	11101.5	12165.3	14562.2	14480.3	10961.5
57.5°	6419.7	6383.1	6994.7	7658.0	8728.3	9901.9	10591.1	12126.5	14631.1	14624.6	11252.2
60°	3859.1	3829.0	4406.1	5103.9	5930.8	7111.0	8254.5	10862.4	13709.4	13722.3	10496.3
62.5°	2375.3	2403.3	2924.5	3279.8	3587.8	3943.1	4604.3	7306.9	10156.1	10240.0	7375.8
65°	1597.9	1619.5	2101.8	2549.8	2549.8	2084.6	1789.6	3493.0	5418.3	5276.2	3488.7
67.5°	1072.5	1096.1	1477.3	2000.6	2076.0	1453.6	725.7	1042.3	1509.6	1464.4	863.6
70°	631.0	656.8	984.2	1371.8	1511.8	1012.2	484.5	441.5	428.6	415.6	336.0
72.5°	282.1	292.9	501.8	697.7	637.4	426.4	342.4	353.2	333.8	327.3	273.5
75°	86.1	90.4	129.2	150.7	152.9	152.9	206.7	277.8	262.7	264.9	211.0
77.5°	21.5	21.5	34.5	32.3	17.2	15.1	38.8	62.5	64.6	58.1	43.1
80°	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2	2976.2
2.5°	3017.1	2961.1	2924.5	2872.8	2836.2	2797.4	2763.0	2735.0	2719.9	2715.6	2717.8
5°	3086.0	2997.7	2911.6	2812.5	2743.6	2679.0	2627.3	2586.4	2567.0	2560.5	2560.5
7.5°	3191.5	3068.8	2915.9	2760.8	2644.5	2543.3	2483.0	2437.8	2420.6	2416.3	2403.3
10°	3329.4	3161.4	2909.4	2668.2	2504.6	2399.0	2356.0	2343.0	2349.5	2351.7	2349.5
12.5°	3495.2	3258.3	2868.5	2532.6	2356.0	2291.4	2295.7	2330.1	2368.9	2388.3	2392.6
15°	3671.8	3346.6	2775.9	2371.0	2228.9	2226.8	2289.2	2368.9	2444.3	2476.6	2485.2
17.5°	3869.9	3417.7	2633.8	2198.8	2119.1	2181.5	2293.5	2416.3	2517.5	2571.3	2582.1
20°	4087.4	3475.8	2452.9	2037.2	2022.2	2134.1	2289.2	2440.0	2564.9	2625.2	2635.9
22.5°	4313.5	3516.7	2244.0	1888.6	1933.9	2080.3	2248.3	2394.7	2513.2	2582.1	2590.7
25°	4571.9	3521.0	2030.8	1763.7	1852.0	2007.1	2149.2	2269.8	2368.9	2429.2	2435.6
27.5°	4798.1	3469.3	1841.3	1662.5	1776.7	1916.6	2011.4	2078.2	2147.1	2181.5	2183.7
30°	5058.6	3378.9	1662.5	1580.7	1699.1	1804.7	1852.0	1867.1	1873.6	1880.0	1871.4
32.5°	5368.8	3269.1	1529.0	1501.0	1610.8	1681.9	1694.8	1664.7	1628.1	1576.4	1563.5
35°	5749.9	3170.0	1419.2	1423.5	1513.9	1557.0	1546.2	1481.6	1410.6	1348.1	1337.3
37.5°	6163.4	3086.0	1335.2	1348.1	1408.4	1438.6	1406.3	1335.2	1302.9	1249.0	1251.2
40°	6529.5	3017.1	1259.8	1272.7	1300.7	1328.7	1277.0	1229.7	1290.0	1285.7	1290.0
42.5°	6790.1	2959.0	1195.2	1188.7	1208.1	1227.5	1188.7	1165.1	1266.3	1238.3	1253.4
45°	6943.0	2905.1	1141.4	1102.6	1132.8	1167.2	1141.4	1111.2	1145.7	1016.5	1005.7
47.5°	7046.4	2875.0	1094.0	1018.6	1072.5	1132.8	1078.9	1005.7	956.2	844.2	835.6
50°	7057.1	2859.9	1038.0	932.5	1001.4	1066.0	1003.5	902.3	831.3	781.7	775.3
52.5°	7113.1	2890.0	960.5	822.6	898.0	1001.4	958.3	857.1	760.2	717.1	708.5
55°	7362.9	3017.1	831.3	671.9	781.7	951.9	921.7	764.5	671.9	646.1	639.6
57.5°	7621.3	3042.9	654.7	531.9	680.5	880.8	842.0	704.2	613.8	583.6	577.1
60°	6968.8	2506.7	491.0	439.3	600.8	814.0	779.6	667.6	562.1	525.5	519.0
62.5°	4578.4	1354.6	389.8	372.6	506.1	689.1	710.7	603.0	501.8	463.0	460.9
65°	2110.5	628.8	299.3	295.0	396.2	549.2	611.6	527.6	424.2	389.8	389.8
67.5°	575.0	312.3	234.7	217.5	269.2	368.3	445.8	394.1	301.5	260.6	258.4
70°	286.4	252.0	211.0	187.4	193.8	228.3	262.7	219.7	152.9	124.9	122.8
72.5°	234.7	206.7	178.7	159.4	146.4	140.0	135.7	109.8	71.1	53.8	51.7
75°	174.4	148.6	127.1	103.4	88.3	81.8	73.2	53.8	30.1	17.2	15.1
77.5°	38.8	36.6	34.5	25.8	23.7	19.4	15.1	10.8	4.3	0.0	0.0
80°	2.2	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)