

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: P638268

Luminaire Tested: GWS-SA4E-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638268
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-SA4E-740-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18177.9 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

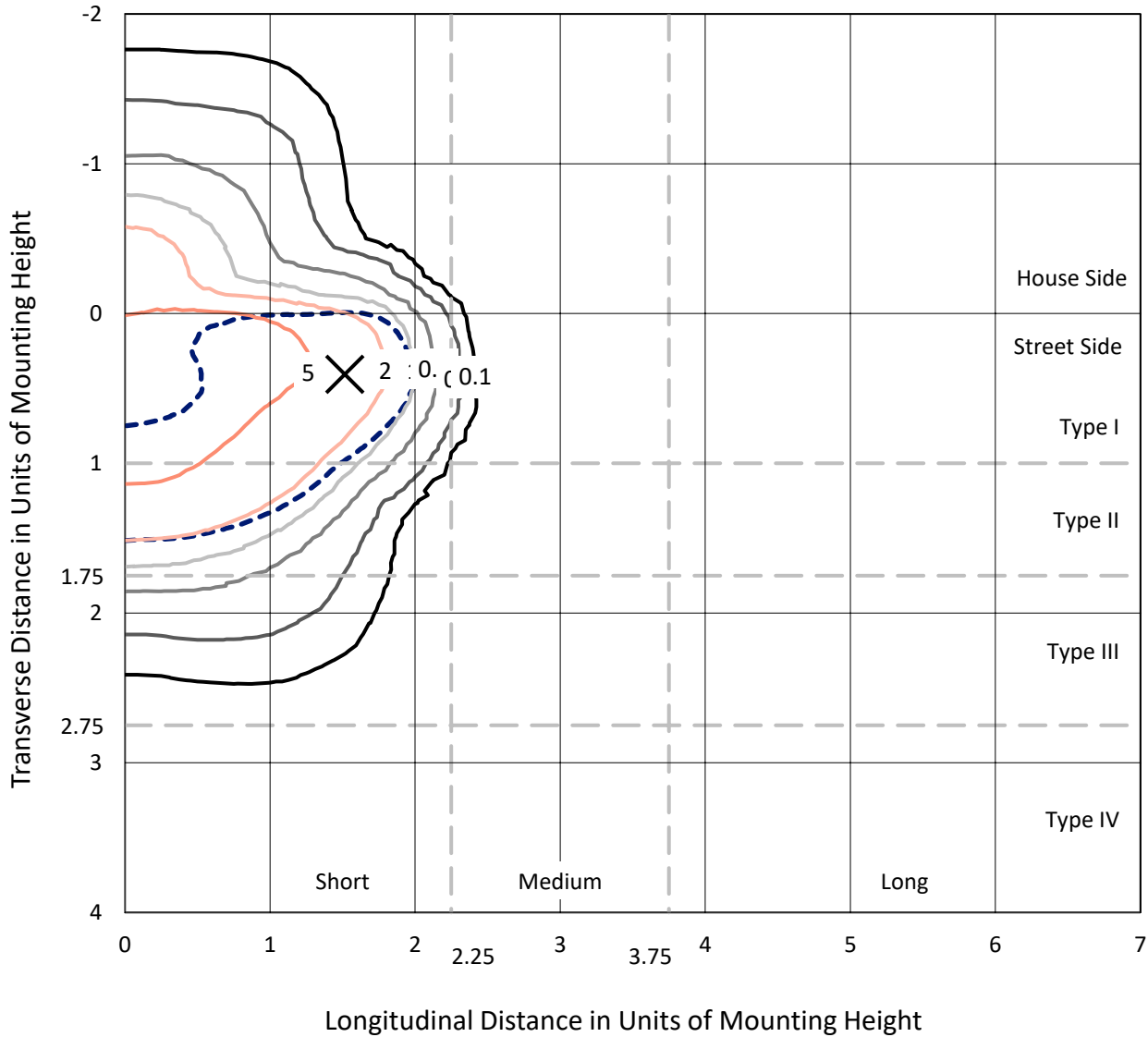
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

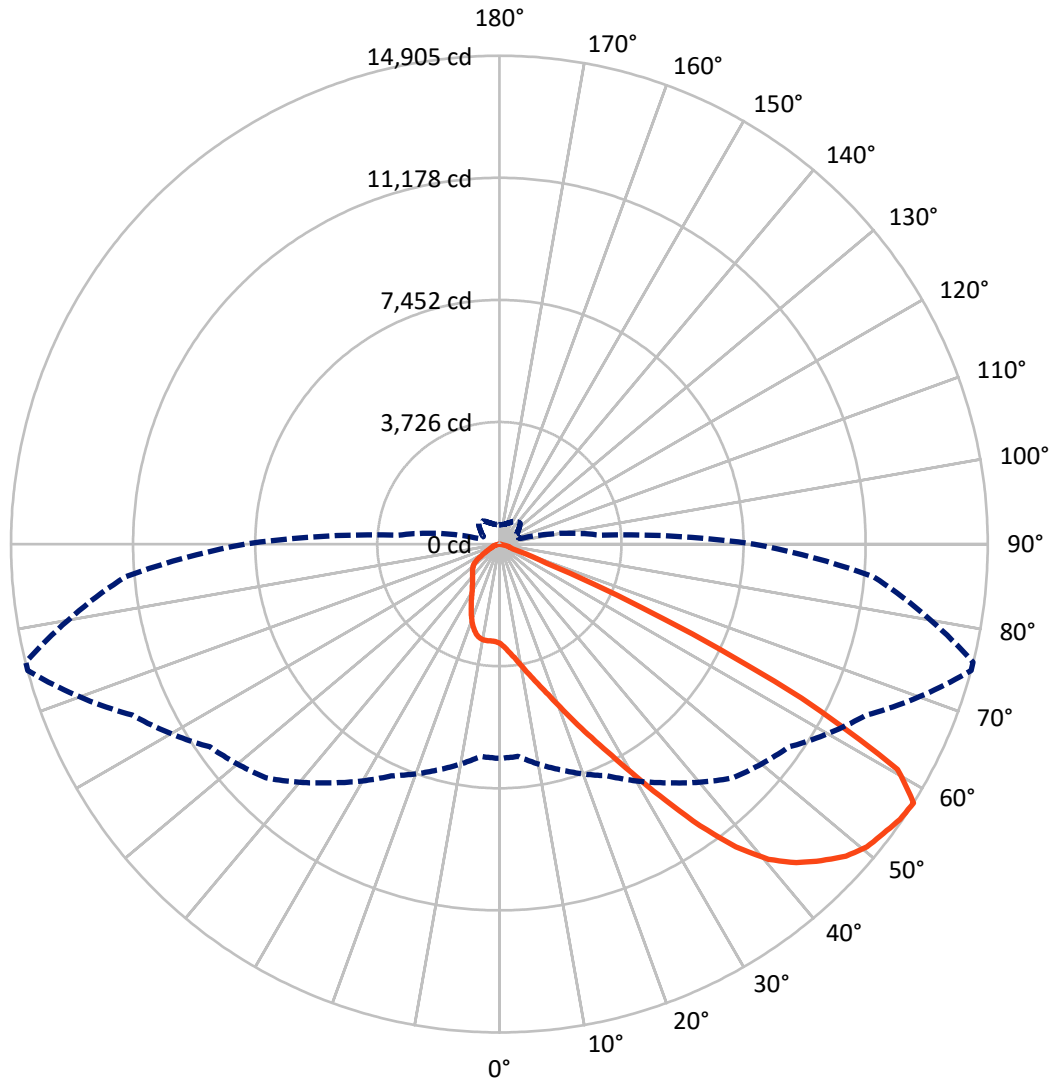
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	2969.3	0.0	2969.3
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	15208.6	0.0	15208.6
	% Fixture	83.7	0.0	83.7
Total	Lumens	18177.9	0.0	18177.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.5	1.7
10°-20°	1002.2	5.5
20°-30°	1835.2	10.1
30°-40°	3044.8	16.8
40°-50°	4650.2	25.6
50°-60°	5225.3	28.7
60°-70°	1927.3	10.6
70°-80°	184.2	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°	18177.9	100.0
0°-180°	18177.9	100.0

Coefficient of Utilization



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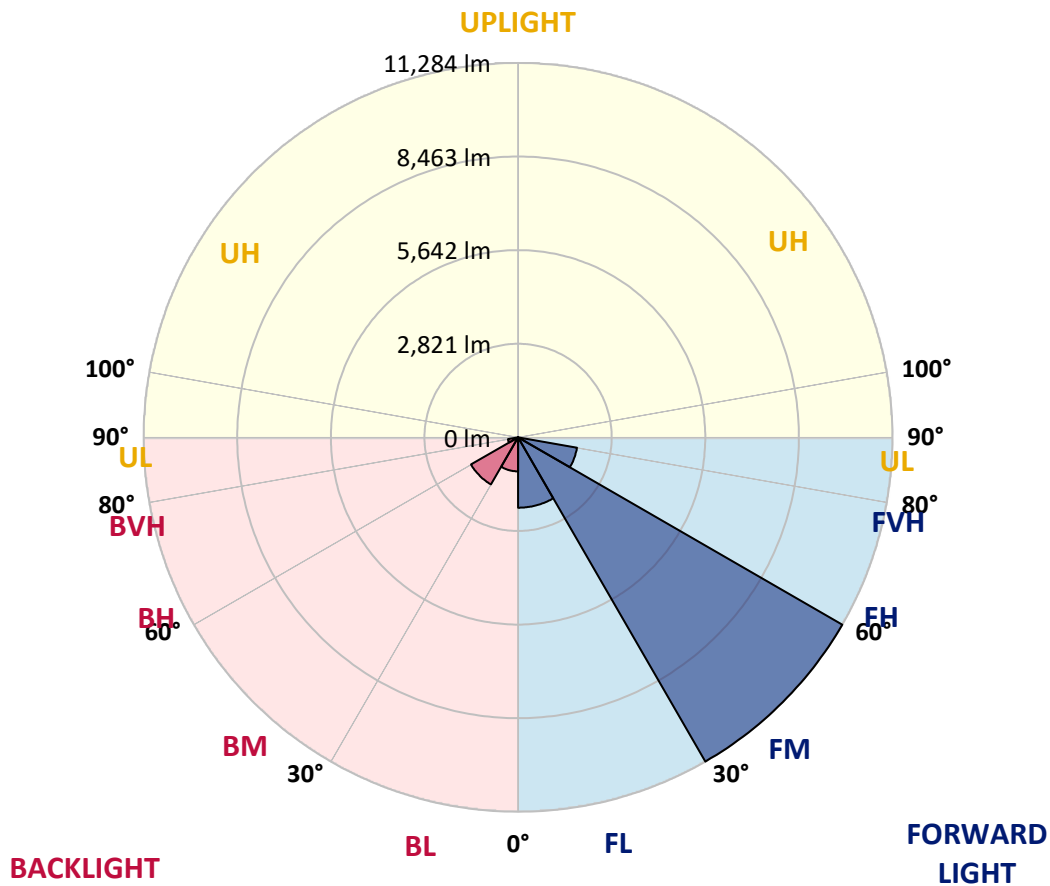
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2121.3	11.7			
FM (30°-60°)	11284.0	62.1			
FH (60°-80°)	1803.2	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1024.6	5.6	B3/2500		
BM (30°-60°)	1636.3	9.0	B2/2500		
BH (60°-80°)	308.4	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3031.8	3031.8	3031.8	3031.8	3031.8	3031.8	3031.8	3031.8	3031.8	3031.8	3031.8
2.5°	3387.2	3422.3	3411.3	3389.4	3376.2	3330.2	3301.7	3218.3	3159.1	3152.5	3097.6
5°	3815.0	3808.4	3799.6	3773.3	3751.4	3679.0	3593.4	3453.0	3328.0	3312.6	3196.4
7.5°	4049.7	4054.1	4058.5	4054.1	4038.8	3983.9	3889.6	3725.1	3534.2	3521.0	3336.8
10°	4146.3	4155.0	4177.0	4218.7	4256.0	4251.6	4196.7	4027.8	3793.1	3771.1	3523.2
12.5°	4192.3	4203.3	4238.4	4317.4	4418.3	4497.3	4506.0	4354.7	4095.8	4060.7	3744.8
15°	4256.0	4266.9	4310.8	4413.9	4560.9	4716.7	4817.6	4721.0	4431.5	4394.2	3988.3
17.5°	4284.5	4299.8	4363.5	4499.5	4690.3	4929.5	5157.6	5148.8	4828.5	4800.0	4271.3
20°	4339.3	4350.3	4407.3	4554.3	4784.7	5129.1	5513.0	5651.2	5313.4	5271.7	4613.5
22.5°	4512.6	4517.0	4543.3	4635.5	4850.5	5273.9	5875.0	6237.0	5885.9	5831.1	4997.5
25°	4795.6	4793.4	4804.4	4819.8	4977.7	5420.9	6223.8	6897.3	6541.9	6482.7	5431.8
27.5°	5155.4	5155.4	5181.7	5137.9	5201.5	5602.9	6568.2	7656.3	7305.3	7222.0	5907.9
30°	5578.8	5576.6	5638.0	5567.8	5587.6	5890.3	6939.0	8483.4	8226.7	8123.6	6456.3
32.5°	6153.6	6140.4	6210.6	6114.1	6048.3	6324.7	7390.9	9347.7	9330.2	9172.2	7145.2
35°	6879.7	6857.8	6879.7	6785.4	6666.9	6932.4	7983.2	10209.9	10554.3	10387.6	7965.7
37.5°	7601.5	7671.7	7695.8	7533.5	7437.0	7702.4	8696.2	10982.1	11723.6	11550.3	8819.0
40°	8452.7	8430.7	8514.1	8332.0	8270.6	8564.6	9393.8	11556.9	12649.4	12484.9	9578.1
42.5°	9080.1	9119.6	9222.7	9121.8	9073.5	9349.9	9979.6	11892.5	13292.2	13129.8	10120.0
45°	9832.6	9861.1	9900.6	9817.2	9766.8	10038.8	10403.0	12039.5	13781.4	13605.9	10484.1
47.5°	10646.5	10668.4	10668.4	10497.3	10335.0	10446.8	10686.0	12122.9	14231.1	14062.2	10754.0
50°	11230.0	11241.0	11337.5	11216.9	10863.7	10690.3	10815.4	12204.1	14529.5	14371.5	10841.7
52.5°	10712.3	10699.1	11017.2	11267.3	11361.6	11017.2	11039.2	12322.5	14674.3	14538.3	10911.9
55°	9020.9	8998.9	9446.5	10054.1	10885.6	11326.5	11309.0	12392.7	14834.4	14751.1	11166.4
57.5°	6539.7	6502.4	7125.4	7801.1	8891.4	10087.1	10789.1	12353.2	14904.6	14898.0	11462.6
60°	3931.3	3900.6	4488.5	5199.3	6041.7	7243.9	8408.8	11065.5	13965.7	13978.8	10692.5
62.5°	2419.8	2448.3	2979.2	3341.1	3654.9	4016.8	4690.3	7443.5	10345.9	10431.5	7513.7
65°	1627.8	1649.7	2141.1	2597.4	2597.4	2123.6	1823.0	3558.3	5519.6	5374.8	3553.9
67.5°	1092.5	1116.6	1504.9	2038.0	2114.8	1480.8	739.3	1061.8	1537.8	1491.8	879.7
70°	642.8	669.1	1002.6	1397.4	1540.0	1031.1	493.6	449.7	436.6	423.4	342.2
72.5°	287.4	298.4	511.2	710.8	649.4	434.4	348.8	359.8	340.0	333.5	278.6
75°	87.8	92.1	131.6	153.6	155.8	155.8	210.6	283.0	267.6	269.8	215.0
77.5°	21.9	21.9	35.1	32.9	17.6	15.4	39.5	63.6	65.8	59.2	43.9
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°	3031.8	3031.8	3031.8	3031.8	3031.8	3031.8	3031.8	3031.8	3031.8	3031.8	3031.8
2.5°	3073.5	3016.5	2979.2	2926.5	2889.2	2849.7	2814.6	2786.1	2770.8	2766.4	2768.6
5°	3143.7	3053.8	2966.0	2865.1	2794.9	2729.1	2676.4	2634.7	2615.0	2608.4	2608.4
7.5°	3251.2	3126.2	2970.4	2812.4	2694.0	2590.9	2529.4	2483.4	2465.8	2461.4	2448.3
10°	3391.6	3220.5	2963.8	2718.1	2551.4	2443.9	2400.0	2386.8	2393.4	2395.6	2393.4
12.5°	3560.5	3319.2	2922.1	2579.9	2400.0	2334.2	2338.6	2373.7	2413.2	2432.9	2437.3
15°	3740.4	3409.2	2827.8	2415.4	2270.6	2268.4	2332.0	2413.2	2490.0	2522.9	2531.6
17.5°	3942.2	3481.5	2683.0	2239.9	2158.7	2222.3	2336.4	2461.4	2564.5	2619.4	2630.4
20°	4163.8	3540.8	2498.7	2075.3	2060.0	2174.0	2332.0	2485.6	2612.8	2674.2	2685.2
22.5°	4394.2	3582.5	2285.9	1924.0	1970.0	2119.2	2290.3	2439.5	2560.2	2630.4	2639.1
25°	4657.4	3586.9	2068.7	1796.7	1886.7	2044.6	2189.4	2312.3	2413.2	2474.6	2481.2
27.5°	4887.8	3534.2	1875.7	1693.6	1809.9	1952.5	2049.0	2117.0	2187.2	2222.3	2224.5
30°	5153.2	3442.1	1693.6	1610.2	1730.9	1838.4	1886.7	1902.0	1908.6	1915.2	1906.4
32.5°	5469.1	3330.2	1557.6	1529.1	1641.0	1713.4	1726.5	1695.8	1658.5	1605.9	1592.7
35°	5857.4	3229.3	1445.7	1450.1	1542.2	1586.1	1575.1	1509.3	1436.9	1373.3	1362.3
37.5°	6278.6	3143.7	1360.2	1373.3	1434.7	1465.5	1432.5	1360.2	1327.2	1272.4	1274.6
40°	6651.6	3073.5	1283.4	1296.5	1325.1	1353.6	1300.9	1252.7	1314.1	1309.7	1314.1
42.5°	6917.0	3014.3	1217.6	1211.0	1230.7	1250.5	1211.0	1186.8	1289.9	1261.4	1276.8
45°	7072.8	2959.4	1162.7	1123.2	1153.9	1189.0	1162.7	1132.0	1167.1	1035.5	1024.5
47.5°	7178.1	2928.7	1114.4	1037.7	1092.5	1153.9	1099.1	1024.5	974.0	860.0	851.2
50°	7189.1	2913.4	1057.4	949.9	1020.1	1085.9	1022.3	919.2	846.8	796.3	789.8
52.5°	7246.1	2944.1	978.4	838.0	914.8	1020.1	976.2	873.1	774.4	730.5	721.8
55°	7500.6	3073.5	846.8	684.5	796.3	969.7	938.9	778.8	684.5	658.1	651.6
57.5°	7763.8	3099.8	666.9	541.9	693.2	897.3	857.8	717.4	625.2	594.5	587.9
60°	7099.1	2553.6	500.2	447.5	612.1	829.3	794.2	680.1	572.6	535.3	528.7
62.5°	4664.0	1379.9	397.1	379.5	515.5	702.0	724.0	614.3	511.2	471.7	469.5
65°	2149.9	640.6	304.9	300.5	403.7	559.4	623.0	537.5	432.2	397.1	397.1
67.5°	585.7	318.1	239.1	221.6	274.2	375.1	454.1	401.5	307.1	265.4	263.3
70°	291.8	256.7	215.0	190.9	197.4	232.5	267.6	223.8	155.8	127.2	125.0
72.5°	239.1	210.6	182.1	162.3	149.2	142.6	138.2	111.9	72.4	54.8	52.7
75°	177.7	151.4	129.4	105.3	89.9	83.4	74.6	54.8	30.7	17.6	15.4
77.5°	39.5	37.3	35.1	26.3	24.1	19.7	15.4	11.0	4.4	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)