

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: P638213

Luminaire Tested: GWS-SA4E-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638213
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17928.8 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

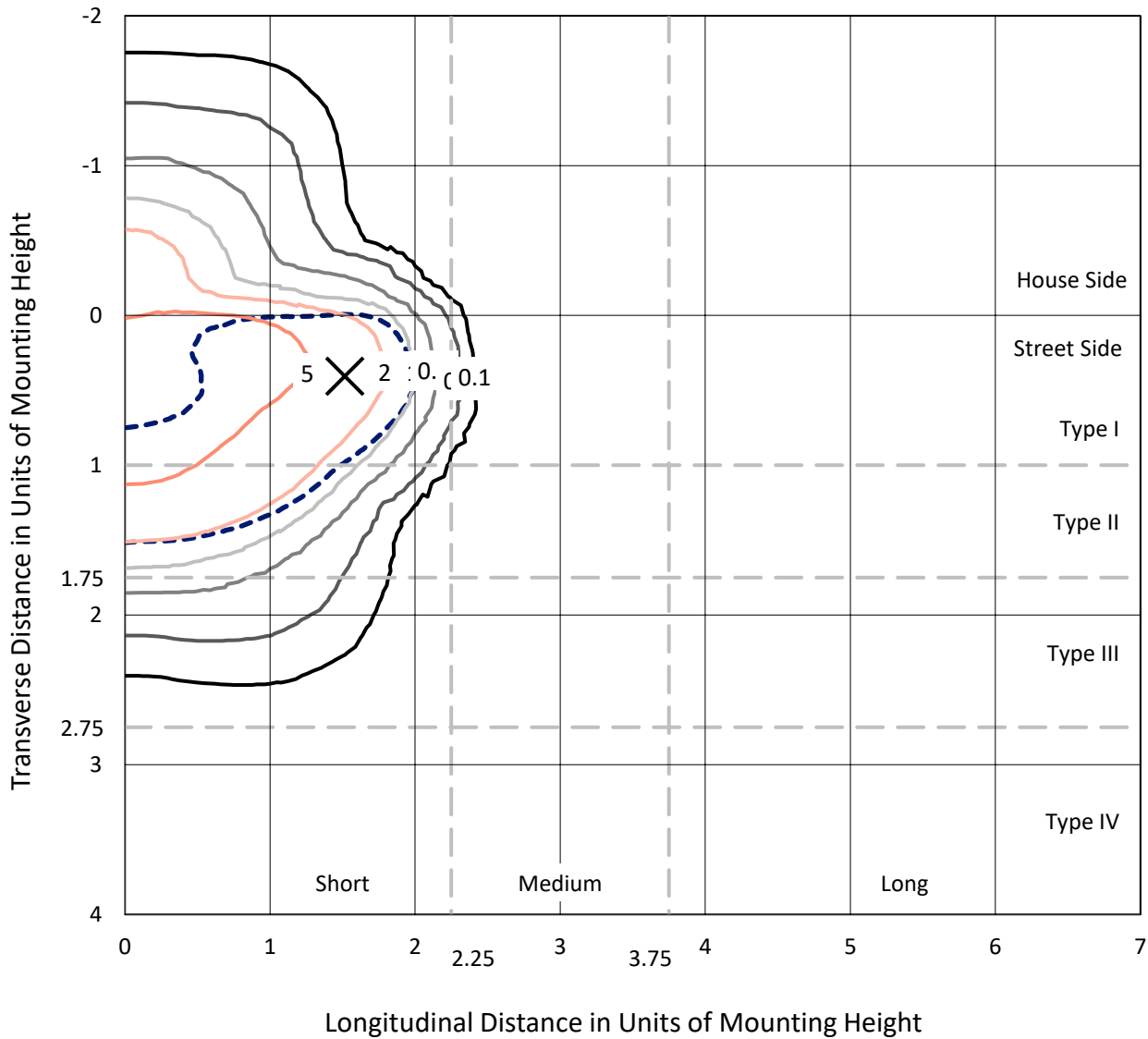
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

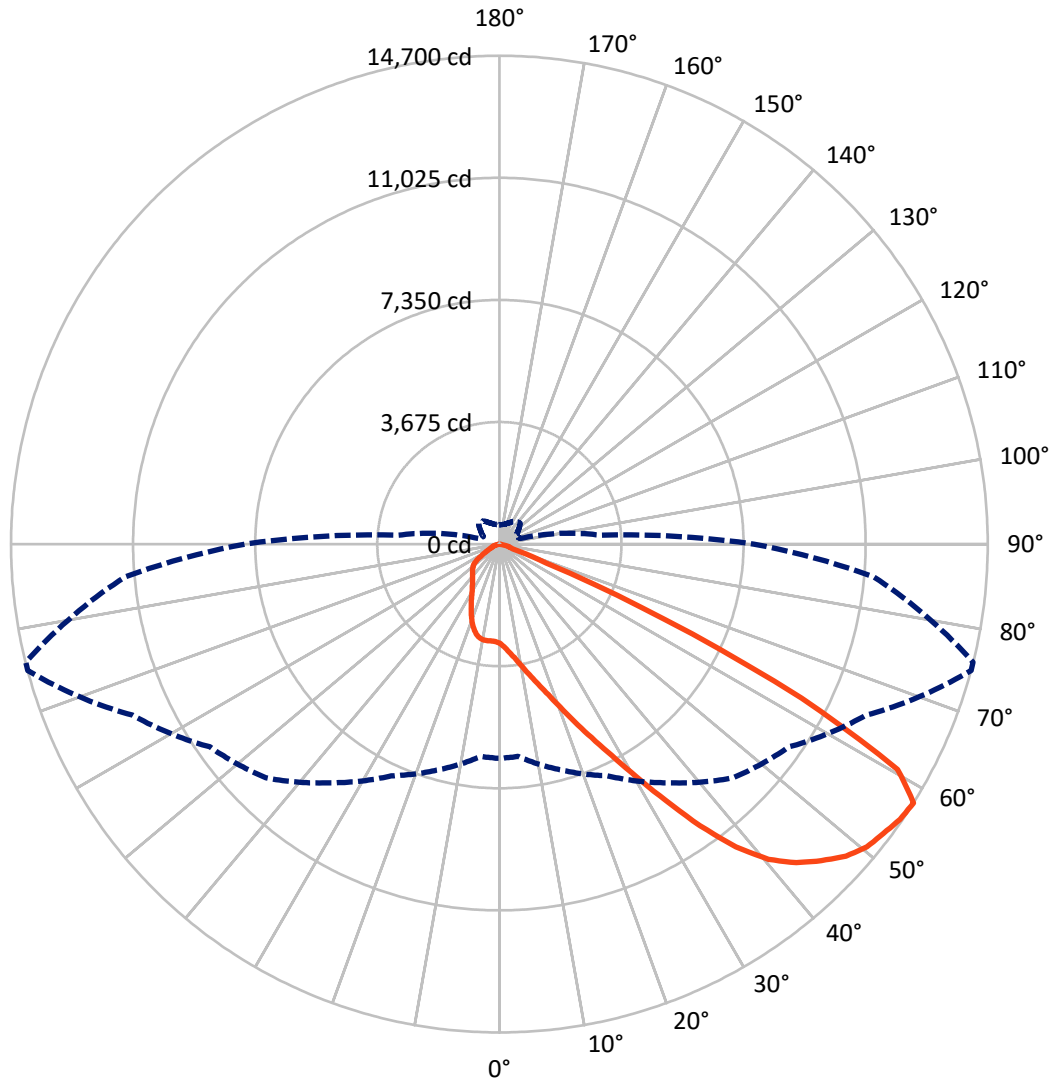
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2928.6	0.0	2928.6
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	15000.2	0.0	15000.2
	% Fixture	83.7	0.0	83.7
Total	Lumens	17928.8	0.0	17928.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.3	1.7
10°-20°	988.5	5.5
20°-30°	1810.1	10.1
30°-40°	3003.1	16.8
40°-50°	4586.5	25.6
50°-60°	5153.7	28.7
60°-70°	1900.9	10.6
70°-80°	181.7	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°	17928.8	100.0
0°-180°	17928.8	100.0

Coefficient of Utilization



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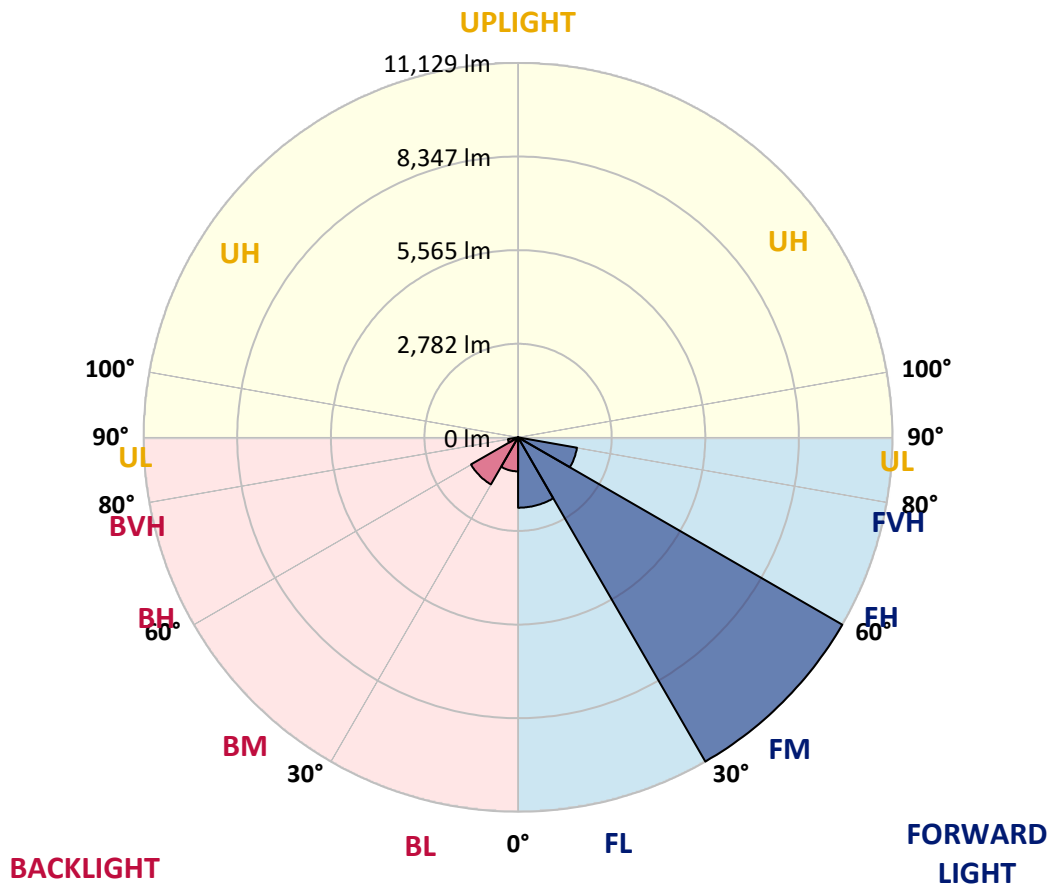
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2092.3	11.7			
FM (30°-60°)	11129.4	62.1			
FH (60°-80°)	1778.5	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1010.6	5.6	B3/2500		
BM (30°-60°)	1613.9	9.0	B2/2500		
BH (60°-80°)	304.1	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°	2990.3	2990.3	2990.3	2990.3	2990.3	2990.3	2990.3	2990.3	2990.3	2990.3	2990.3
2.5°	3340.8	3375.4	3364.6	3343.0	3330.0	3284.5	3256.4	3174.2	3115.8	3109.3	3055.2
5°	3762.7	3756.2	3747.6	3721.6	3700.0	3628.6	3544.2	3405.7	3282.4	3267.2	3152.6
7.5°	3994.2	3998.6	4002.9	3998.6	3983.4	3929.3	3836.3	3674.0	3485.8	3472.8	3291.0
10°	4089.4	4098.1	4119.7	4160.9	4197.6	4193.3	4139.2	3972.6	3741.1	3719.5	3474.9
12.5°	4134.9	4145.7	4180.3	4258.2	4357.8	4435.6	4444.3	4295.0	4039.7	4005.1	3693.5
15°	4197.6	4208.5	4251.7	4353.4	4498.4	4652.0	4751.6	4656.3	4370.7	4334.0	3933.7
17.5°	4225.8	4240.9	4303.7	4437.8	4626.1	4861.9	5086.9	5078.3	4762.4	4734.2	4212.8
20°	4279.9	4290.7	4346.9	4491.9	4719.1	5058.8	5437.5	5573.8	5240.6	5199.4	4550.3
22.5°	4450.8	4455.1	4481.1	4572.0	4784.0	5201.6	5794.5	6151.5	5805.3	5751.2	4929.0
25°	4729.9	4727.7	4738.6	4753.7	4909.5	5346.6	6138.5	6802.8	6452.2	6393.8	5357.4
27.5°	5084.8	5084.8	5110.7	5067.5	5130.2	5526.2	6478.2	7551.4	7205.2	7123.0	5826.9
30°	5502.4	5500.2	5560.8	5491.5	5511.0	5809.6	6843.9	8367.1	8114.0	8012.3	6367.9
32.5°	6069.3	6056.3	6125.5	6030.3	5965.4	6238.0	7289.6	9219.7	9202.3	9046.6	7047.3
35°	6785.5	6763.8	6785.5	6692.4	6575.6	6837.4	7873.8	10070.0	10409.7	10245.3	7856.5
37.5°	7497.3	7566.6	7590.4	7430.2	7335.0	7596.9	8577.0	10831.6	11563.0	11392.0	8698.2
40°	8336.8	8315.2	8397.4	8217.8	8157.3	8447.2	9265.1	11398.5	12476.1	12313.8	9446.8
42.5°	8955.7	8994.6	9096.3	8996.8	8949.2	9221.8	9842.8	11729.6	13110.0	12949.9	9981.3
45°	9697.8	9726.0	9764.9	9682.7	9632.9	9901.2	10260.4	11874.5	13592.5	13419.5	10340.5
47.5°	10500.6	10522.2	10522.2	10353.4	10193.3	10303.7	10539.5	11956.8	14036.1	13869.5	10606.6
50°	11076.1	11087.0	11182.2	11063.1	10714.8	10543.9	10667.2	12036.8	14330.4	14174.6	10693.2
52.5°	10565.5	10552.5	10866.2	11112.9	11206.0	10866.2	10887.9	12153.7	14473.2	14339.0	10762.4
55°	8897.3	8875.6	9317.0	9916.4	10736.4	11171.3	11154.0	12222.9	14631.1	14548.9	11013.4
57.5°	6450.1	6413.3	7027.8	7694.2	8769.6	9948.8	10641.2	12184.0	14700.4	14693.9	11305.5
60°	3877.4	3847.1	4427.0	5128.0	5958.9	7144.6	8293.6	10913.9	13774.3	13787.3	10546.0
62.5°	2386.6	2414.7	2938.3	3295.4	3604.8	3961.8	4626.1	7341.5	10204.1	10288.5	7410.8
65°	1605.5	1627.1	2111.8	2561.9	2561.9	2094.5	1798.1	3509.6	5443.9	5301.1	3505.2
67.5°	1077.5	1101.3	1484.3	2010.1	2085.8	1460.5	729.2	1047.2	1516.8	1471.3	867.7
70°	634.0	659.9	988.8	1378.3	1518.9	1017.0	486.8	443.6	430.6	417.6	337.5
72.5°	283.4	294.3	504.1	701.0	640.5	428.4	344.0	354.9	335.4	328.9	274.8
75°	86.5	90.9	129.8	151.5	153.6	153.6	207.7	279.1	264.0	266.1	212.0
77.5°	21.6	21.6	34.6	32.5	17.3	15.1	38.9	62.7	64.9	58.4	43.3
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°	2990.3	2990.3	2990.3	2990.3	2990.3	2990.3	2990.3	2990.3	2990.3	2990.3	2990.3
2.5°	3031.4	2975.1	2938.3	2886.4	2849.6	2810.7	2776.1	2747.9	2732.8	2728.5	2730.6
5°	3100.6	3011.9	2925.4	2825.8	2756.6	2691.7	2639.8	2598.6	2579.2	2572.7	2572.7
7.5°	3206.6	3083.3	2929.7	2773.9	2657.1	2555.4	2494.8	2449.3	2432.0	2427.7	2414.7
10°	3345.1	3176.4	2923.2	2680.9	2516.4	2410.4	2367.1	2354.1	2360.6	2362.8	2360.6
12.5°	3511.7	3273.7	2882.1	2544.5	2367.1	2302.2	2306.5	2341.2	2380.1	2399.6	2403.9
15°	3689.2	3362.4	2789.0	2382.3	2239.5	2237.3	2300.0	2380.1	2455.8	2488.3	2496.9
17.5°	3888.2	3433.8	2646.2	2209.2	2129.1	2191.9	2304.4	2427.7	2529.4	2583.5	2594.3
20°	4106.8	3492.3	2464.5	2046.9	2031.7	2144.3	2300.0	2451.5	2577.0	2637.6	2648.4
22.5°	4334.0	3533.4	2254.6	1897.6	1943.0	2090.2	2258.9	2406.1	2525.1	2594.3	2603.0
25°	4593.6	3537.7	2040.4	1772.1	1860.8	2016.6	2159.4	2280.6	2380.1	2440.7	2447.2
27.5°	4820.8	3485.8	1850.0	1670.4	1785.1	1925.7	2020.9	2088.0	2157.2	2191.9	2194.0
30°	5082.6	3394.9	1670.4	1588.2	1707.2	1813.2	1860.8	1876.0	1882.4	1888.9	1880.3
32.5°	5394.2	3284.5	1536.2	1508.1	1618.5	1689.9	1702.9	1672.6	1635.8	1583.9	1570.9
35°	5777.2	3185.0	1425.9	1430.2	1521.1	1564.4	1553.6	1488.6	1417.2	1354.5	1343.7
37.5°	6192.6	3100.6	1341.5	1354.5	1415.1	1445.4	1412.9	1341.5	1309.1	1255.0	1257.1
40°	6560.4	3031.4	1265.8	1278.8	1306.9	1335.0	1283.1	1235.5	1296.1	1291.7	1296.1
42.5°	6822.2	2973.0	1200.9	1194.4	1213.9	1233.3	1194.4	1170.6	1272.3	1244.1	1259.3
45°	6975.9	2918.9	1146.8	1107.8	1138.1	1172.7	1146.8	1116.5	1151.1	1021.3	1010.5
47.5°	7079.7	2888.6	1099.2	1023.4	1077.5	1138.1	1084.0	1010.5	960.7	848.2	839.5
50°	7090.5	2873.4	1042.9	936.9	1006.1	1071.0	1008.3	906.6	835.2	785.4	778.9
52.5°	7146.8	2903.7	965.0	826.5	902.3	1006.1	962.9	861.2	763.8	720.5	711.9
55°	7397.8	3031.4	835.2	675.1	785.4	956.4	926.1	768.1	675.1	649.1	642.6
57.5°	7657.4	3057.3	657.8	534.4	683.7	885.0	846.0	707.5	616.7	586.4	579.9
60°	7001.8	2518.6	493.3	441.4	603.7	817.9	783.3	670.8	564.7	528.0	521.5
62.5°	4600.1	1361.0	391.6	374.3	508.5	692.4	714.0	605.8	504.1	465.2	463.0
65°	2120.5	631.8	300.8	296.4	398.1	551.8	614.5	530.1	426.3	391.6	391.6
67.5°	577.7	313.7	235.8	218.5	270.5	370.0	447.9	396.0	302.9	261.8	259.6
70°	287.8	253.2	212.0	188.2	194.7	229.4	264.0	220.7	153.6	125.5	123.3
72.5°	235.8	207.7	179.6	160.1	147.1	140.6	136.3	110.4	71.4	54.1	51.9
75°	175.3	149.3	127.7	103.9	88.7	82.2	73.6	54.1	30.3	17.3	15.1
77.5°	38.9	36.8	34.6	26.0	23.8	19.5	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)