

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: P640028

Luminaire Tested: GWS-SA5D-722-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640028
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-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13144 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

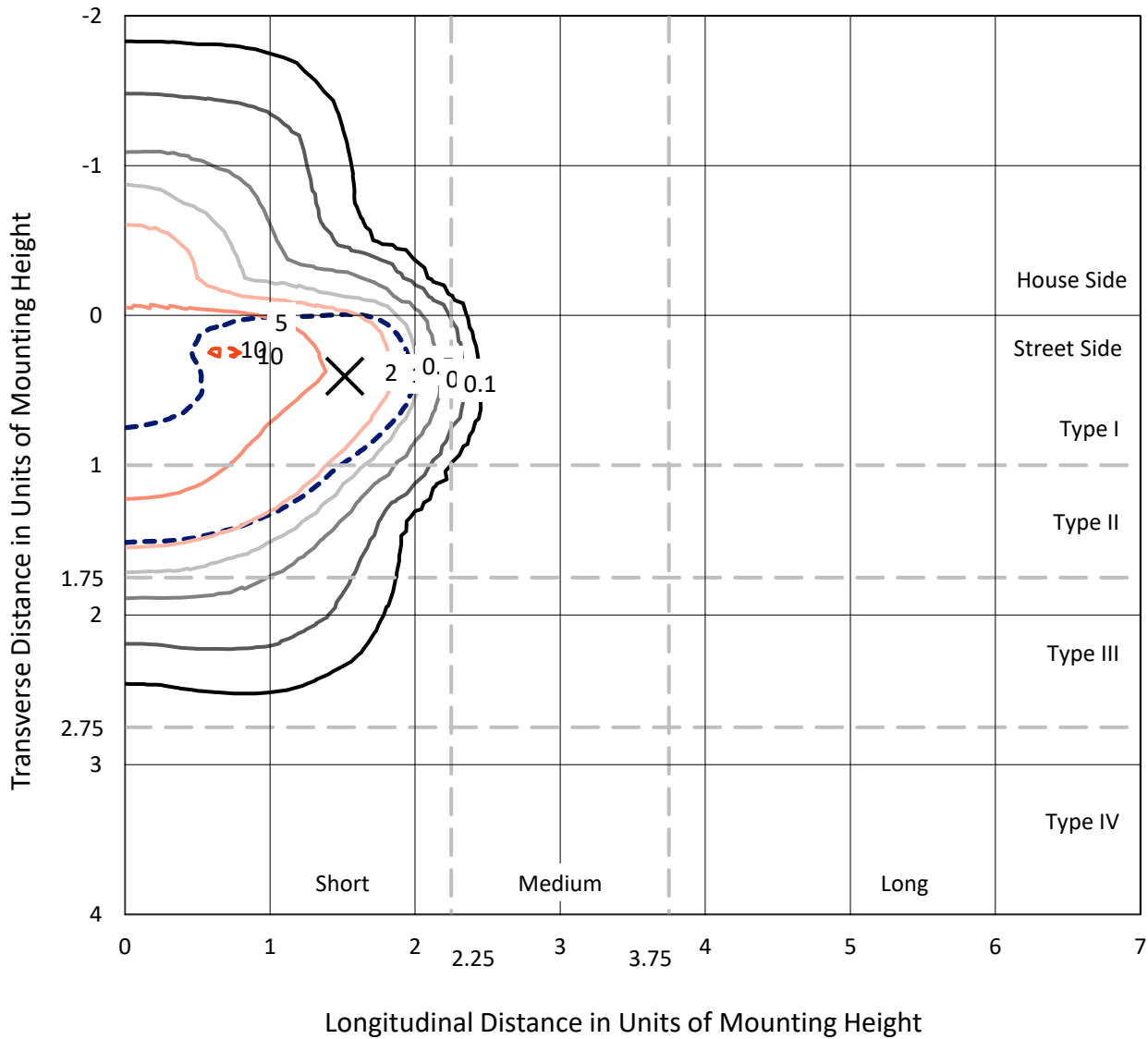
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

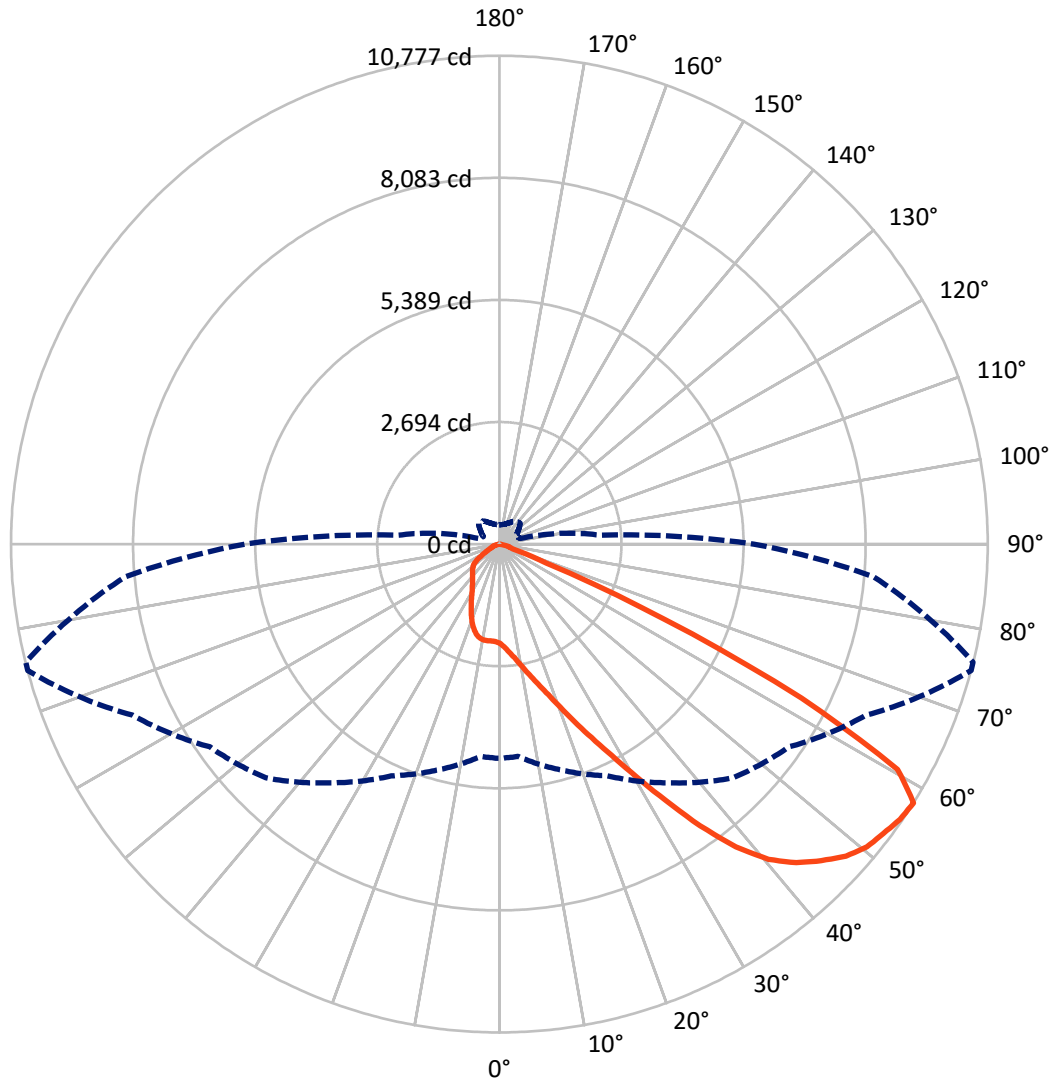
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.2 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	2147.0	0.0	2147.0
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	10997.0	0.0	10997.0
	% Fixture	83.7	0.0	83.7
Total	Lumens	13144.0	0.0	13144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.1	1.7
10°-20°	724.7	5.5
20°-30°	1327.0	10.1
30°-40°	2201.6	16.8
40°-50°	3362.4	25.6
50°-60°	3778.3	28.7
60°-70°	1393.6	10.6
70°-80°	133.2	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°	13144.0	100.0
0°-180°	13144.0	100.0

Coefficient of Utilization



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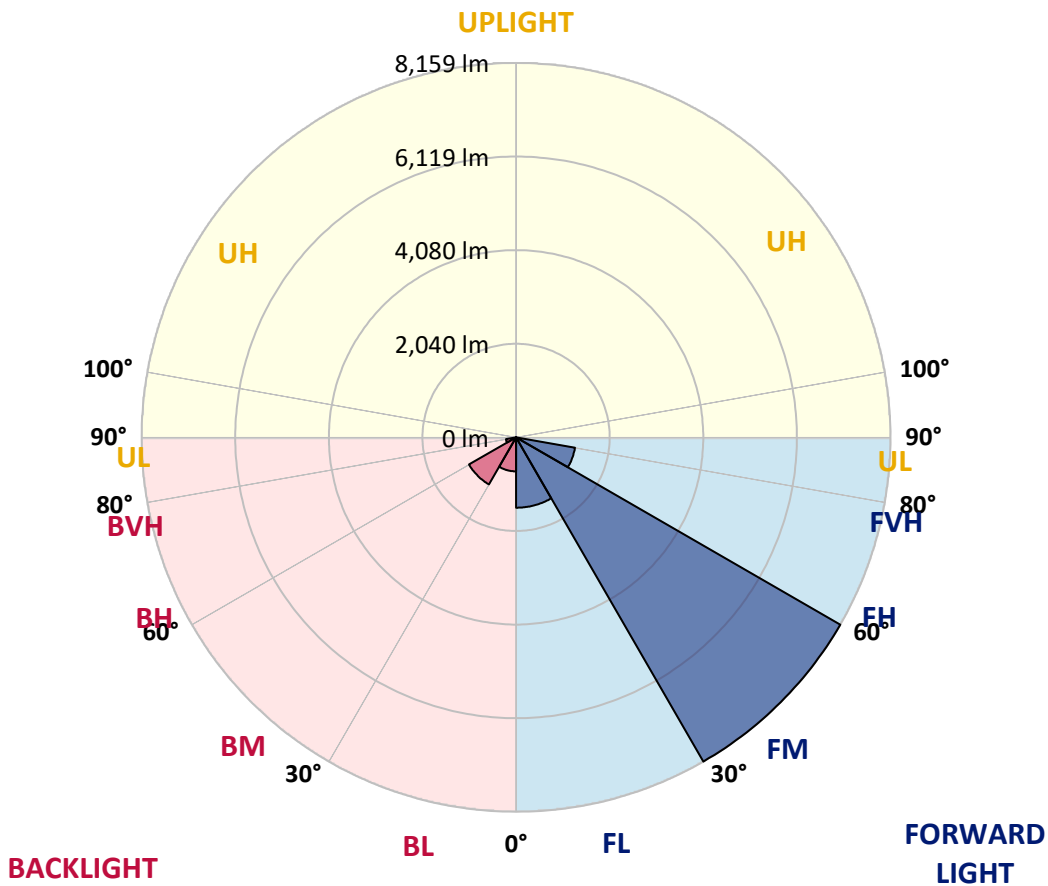
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1533.9	11.7			
FM (30°-60°)	8159.2	62.1			
FH (60°-80°)	1303.8	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	740.9	5.6	B2/1000		
BM (30°-60°)	1183.2	9.0	B2/2500		
BH (60°-80°)	223.0	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2192.2	2192.2	2192.2	2192.2	2192.2	2192.2	2192.2	2192.2	2192.2	2192.2	2192.2
2.5°	2449.2	2474.6	2466.7	2450.8	2441.3	2408.0	2387.3	2327.1	2284.2	2279.5	2239.8
5°	2758.5	2753.8	2747.4	2728.4	2712.5	2660.2	2598.3	2496.8	2406.4	2395.3	2311.2
7.5°	2928.3	2931.4	2934.6	2931.4	2920.3	2880.7	2812.5	2693.5	2555.5	2546.0	2412.7
10°	2998.1	3004.4	3020.3	3050.4	3077.4	3074.2	3034.5	2912.4	2742.7	2726.8	2547.6
12.5°	3031.4	3039.3	3064.7	3121.8	3194.8	3251.9	3258.2	3148.8	2961.6	2936.2	2707.8
15°	3077.4	3085.3	3117.0	3191.6	3297.9	3410.5	3483.5	3413.7	3204.3	3177.3	2883.9
17.5°	3098.0	3109.1	3155.1	3253.5	3391.5	3564.4	3729.3	3723.0	3491.4	3470.8	3088.5
20°	3137.7	3145.6	3186.8	3293.1	3459.7	3708.7	3986.3	4086.3	3842.0	3811.8	3335.9
22.5°	3263.0	3266.1	3285.2	3351.8	3507.3	3813.4	4248.1	4509.8	4256.0	4216.3	3613.5
25°	3467.6	3466.0	3473.9	3485.1	3599.3	3919.7	4500.3	4987.3	4730.3	4687.5	3927.6
27.5°	3727.8	3727.8	3746.8	3715.1	3761.1	4051.4	4749.3	5536.1	5282.3	5222.0	4271.8
30°	4033.9	4032.3	4076.7	4026.0	4040.3	4259.2	5017.4	6134.1	5948.5	5874.0	4668.4
32.5°	4449.5	4440.0	4490.8	4421.0	4373.4	4573.2	5344.2	6759.1	6746.4	6632.2	5166.5
35°	4974.6	4958.7	4974.6	4906.4	4820.7	5012.6	5772.5	7382.5	7631.6	7511.0	5759.8
37.5°	5496.5	5547.2	5564.7	5447.3	5377.5	5569.4	6288.0	7940.9	8477.1	8351.8	6376.8
40°	6111.9	6096.1	6156.3	6024.7	5980.3	6192.8	6792.4	8356.5	9146.5	9027.5	6925.7
42.5°	6565.6	6594.2	6668.7	6595.7	6560.8	6760.7	7216.0	8599.2	9611.3	9493.9	7317.5
45°	7109.7	7130.3	7158.9	7098.6	7062.1	7258.8	7522.1	8705.5	9965.0	9838.1	7580.8
47.5°	7698.2	7714.1	7714.1	7590.3	7473.0	7553.9	7726.8	8765.8	10290.2	10168.0	7775.9
50°	8120.2	8128.1	8197.9	8110.6	7855.2	7729.9	7820.4	8824.5	10505.9	10391.7	7839.4
52.5°	7745.8	7736.3	7966.3	8147.1	8215.3	7966.3	7982.2	8910.1	10610.6	10512.3	7890.1
55°	6522.8	6506.9	6830.5	7269.9	7871.1	8190.0	8177.3	8960.9	10726.4	10666.1	8074.2
57.5°	4728.7	4701.7	5152.2	5640.8	6429.2	7293.7	7801.3	8932.3	10777.2	10772.4	8288.3
60°	2842.6	2820.4	3245.5	3759.5	4368.6	5237.9	6080.2	8001.2	10098.2	10107.8	7731.5
62.5°	1749.7	1770.3	2154.2	2415.9	2642.7	2904.5	3391.5	5382.2	7480.9	7542.8	5433.0
65°	1177.0	1192.9	1548.2	1878.2	1878.2	1535.5	1318.2	2572.9	3991.1	3886.4	2569.8
67.5°	790.0	807.4	1088.2	1473.7	1529.2	1070.7	534.6	767.8	1112.0	1078.7	636.1
70°	464.8	483.8	724.9	1010.5	1113.6	745.6	356.9	325.2	315.7	306.2	247.5
72.5°	207.8	215.7	369.6	514.0	469.5	314.1	252.2	260.1	245.9	241.1	201.5
75°	63.5	66.6	95.2	111.0	112.6	112.6	152.3	204.6	193.5	195.1	155.5
77.5°	15.9	15.9	25.4	23.8	12.7	11.1	28.6	46.0	47.6	42.8	31.7
80°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6
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°	2192.2	2192.2	2192.2	2192.2	2192.2	2192.2	2192.2	2192.2	2192.2	2192.2	2192.2
2.5°	2222.4	2181.1	2154.2	2116.1	2089.1	2060.6	2035.2	2014.6	2003.5	2000.3	2001.9
5°	2273.1	2208.1	2144.6	2071.7	2020.9	1973.3	1935.3	1905.1	1890.8	1886.1	1886.1
7.5°	2350.9	2260.4	2147.8	2033.6	1947.9	1873.4	1829.0	1795.7	1783.0	1779.8	1770.3
10°	2452.4	2328.7	2143.1	1965.4	1844.8	1767.1	1735.4	1725.9	1730.6	1732.2	1730.6
12.5°	2574.5	2400.0	2112.9	1865.5	1735.4	1687.8	1691.0	1716.4	1744.9	1759.2	1762.4
15°	2704.6	2465.1	2044.7	1746.5	1641.8	1640.2	1686.2	1744.9	1800.4	1824.2	1830.6
17.5°	2850.5	2517.4	1940.0	1619.6	1560.9	1606.9	1689.4	1779.8	1854.4	1894.0	1901.9
20°	3010.8	2560.3	1806.8	1500.6	1489.5	1572.0	1686.2	1797.3	1889.3	1933.7	1941.6
22.5°	3177.3	2590.4	1652.9	1391.2	1424.5	1532.3	1656.1	1763.9	1851.2	1901.9	1908.3
25°	3367.7	2593.6	1495.9	1299.2	1364.2	1478.4	1583.1	1671.9	1744.9	1789.3	1794.1
27.5°	3534.2	2555.5	1356.3	1224.6	1308.7	1411.8	1481.6	1530.8	1581.5	1606.9	1608.5
30°	3726.2	2488.9	1224.6	1164.3	1251.6	1329.3	1364.2	1375.3	1380.1	1384.8	1378.5
32.5°	3954.6	2408.0	1126.3	1105.6	1186.5	1238.9	1248.4	1226.2	1199.2	1161.2	1151.6
35°	4235.4	2335.0	1045.4	1048.5	1115.2	1146.9	1138.9	1091.4	1039.0	993.0	985.1
37.5°	4539.9	2273.1	983.5	993.0	1037.4	1059.6	1035.8	983.5	959.7	920.0	921.6
40°	4809.6	2222.4	928.0	937.5	958.1	978.7	940.7	905.8	950.2	947.0	950.2
42.5°	5001.5	2179.5	880.4	875.6	889.9	904.2	875.6	858.2	932.7	912.1	923.2
45°	5114.2	2139.9	840.7	812.2	834.4	859.8	840.7	818.5	843.9	748.7	740.8
47.5°	5190.3	2117.7	805.8	750.3	790.0	834.4	794.7	740.8	704.3	621.8	615.5
50°	5198.2	2106.6	764.6	686.9	737.6	785.2	739.2	664.7	612.3	575.8	571.1
52.5°	5239.5	2128.8	707.5	606.0	661.5	737.6	705.9	631.3	560.0	528.2	521.9
55°	5423.5	2222.4	612.3	494.9	575.8	701.1	678.9	563.1	494.9	475.9	471.1
57.5°	5613.8	2241.4	482.2	391.8	501.3	648.8	620.2	518.7	452.1	429.9	425.1
60°	5133.2	1846.4	361.7	323.6	442.6	599.6	574.2	491.7	414.0	387.1	382.3
62.5°	3372.4	997.8	287.1	274.4	372.8	507.6	523.5	444.2	369.6	341.0	339.5
65°	1554.6	463.2	220.5	217.3	291.9	404.5	450.5	388.6	312.5	287.1	287.1
67.5°	423.5	230.0	172.9	160.2	198.3	271.3	328.4	290.3	222.1	191.9	190.4
70°	211.0	185.6	155.5	138.0	142.8	168.1	193.5	161.8	112.6	92.0	90.4
72.5°	172.9	152.3	131.7	117.4	107.9	103.1	99.9	80.9	52.3	39.7	38.1
75°	128.5	109.5	93.6	76.1	65.0	60.3	53.9	39.7	22.2	12.7	11.1
77.5°	28.6	27.0	25.4	19.0	17.4	14.3	11.1	7.9	3.2	0.0	0.0
80°	1.6	1.6	1.6	1.6	1.6	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)