

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: P637047

Luminaire Tested: GWS-SA4C-722-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-722-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11266 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

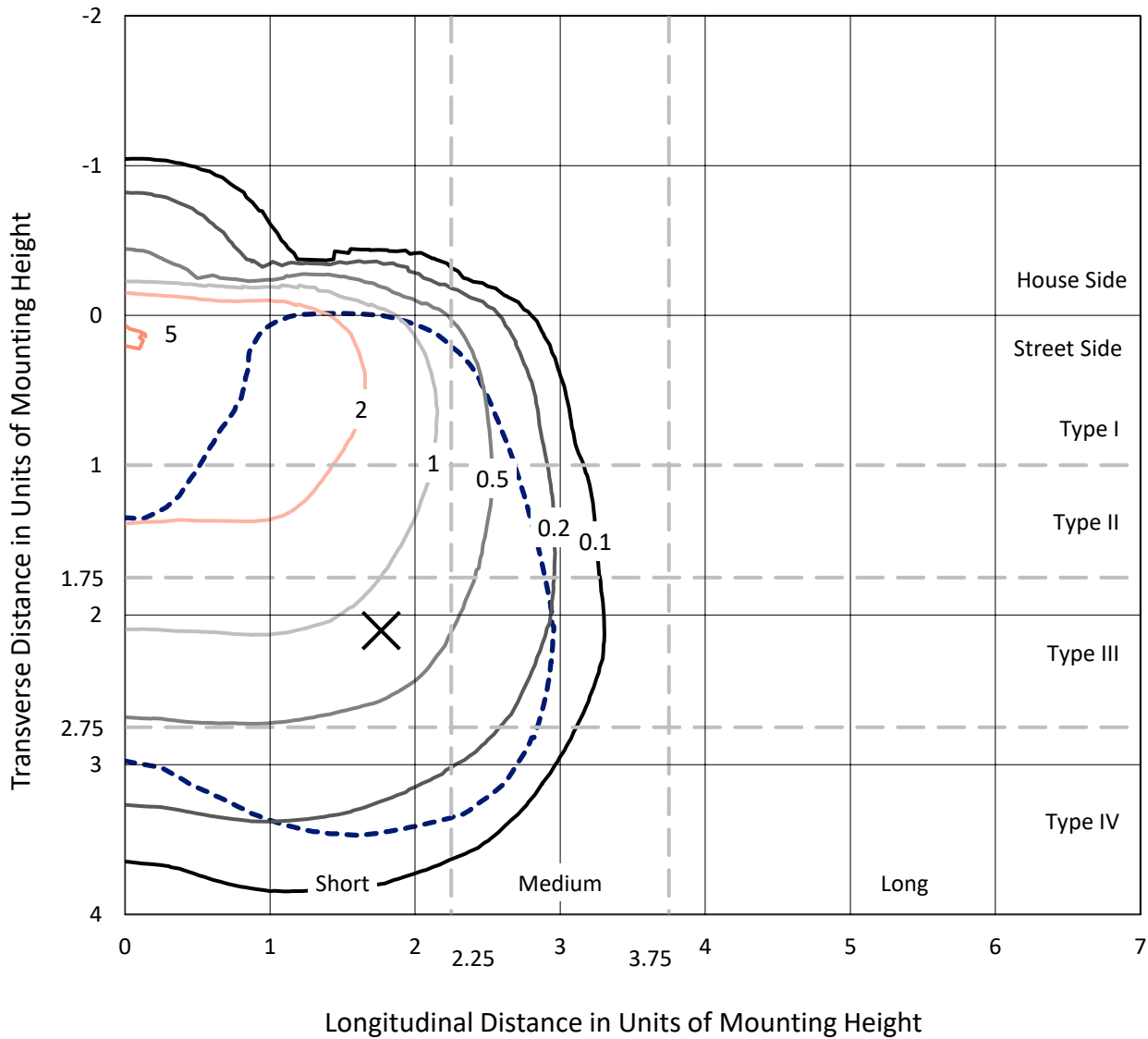
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

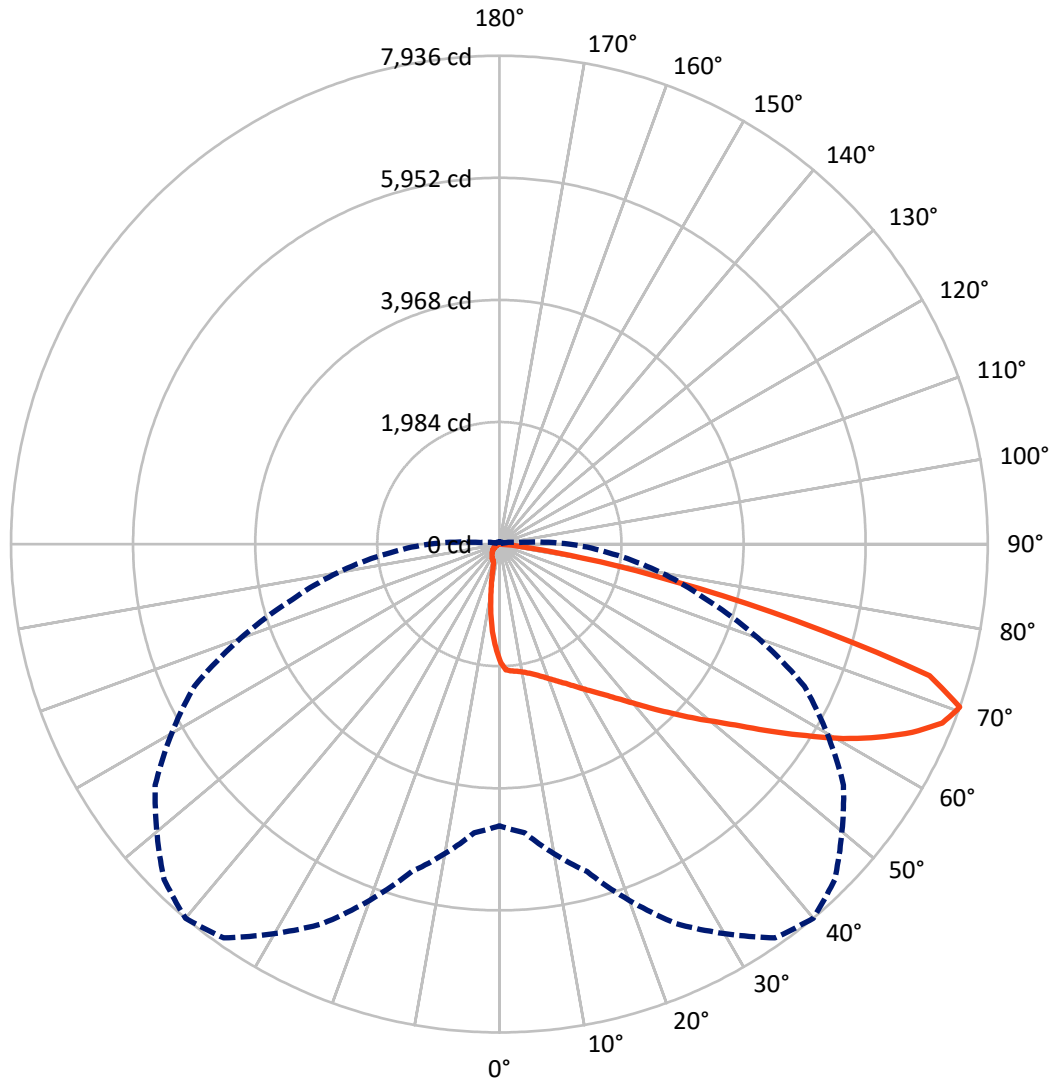
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	921.3	0.0	921.3
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	10344.7	0.0	10344.7
	% Fixture	91.8	0.0	91.8
Total	Lumens	11266.0	0.0	11266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	1.4
10°-20°	409.8	3.6
20°-30°	685.9	6.1
30°-40°	1077.2	9.6
40°-50°	1703.9	15.1
50°-60°	2485.6	22.1
60°-70°	3081.3	27.4
70°-80°	1558.9	13.8
80°-90°	101.8	0.9
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°	11266.0	100.0
0°-180°	11266.0	100.0

Coefficient of Utilization



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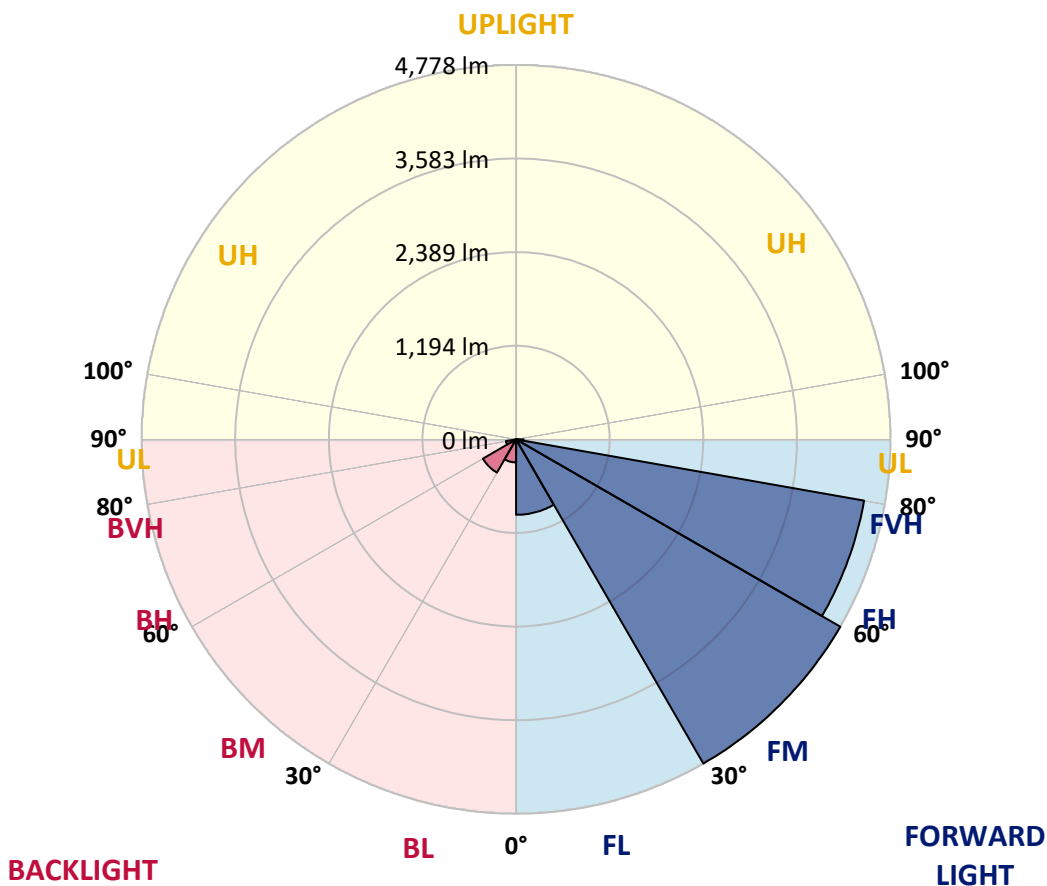
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	963.0	8.5			
FM (30°-60°)	4777.8	42.4			
FH (60°-80°)	4508.9	40.0			G2/5000
FVH (80°-90°)	95.1	0.8			G1/100
BL (0°-30°)	294.2	2.6	B1/500		
BM (30°-60°)	489.0	4.3	B1/1000		
BH (60°-80°)	131.4	1.2	B1/500		G1/500
BVH (80°-90°)	6.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1911.7	1911.7	1911.7	1911.7	1911.7	1911.7	1911.7	1911.7	1911.7	1911.7	1911.7
2.5°	2055.2	2062.4	2061.4	2064.4	2057.3	2046.0	2043.9	2028.6	2000.9	1966.0	1927.1
5°	2097.2	2105.4	2099.3	2096.2	2082.9	2070.6	2067.5	2051.1	2019.3	1972.2	1904.5
7.5°	2133.1	2135.2	2131.1	2123.9	2104.4	2088.0	2076.7	2054.2	2016.3	1969.1	1891.2
10°	2139.3	2138.2	2140.3	2141.3	2129.0	2114.7	2105.4	2074.7	2026.5	1976.3	1892.2
12.5°	2132.1	2132.1	2145.4	2160.8	2160.8	2153.6	2144.4	2116.7	2060.3	2000.9	1912.7
15°	2141.3	2144.4	2170.0	2198.7	2207.9	2200.8	2196.7	2168.0	2109.5	2043.9	1949.6
17.5°	2174.1	2177.2	2218.2	2261.2	2272.5	2264.3	2256.1	2227.4	2164.9	2093.1	1991.7
20°	2222.3	2230.5	2282.8	2338.1	2348.4	2338.1	2321.7	2281.7	2219.2	2146.4	2031.6
22.5°	2310.4	2315.6	2371.9	2430.4	2435.5	2419.1	2394.5	2339.1	2273.5	2202.8	2076.7
25°	2427.3	2434.5	2490.9	2547.2	2533.9	2509.3	2475.5	2413.0	2338.1	2269.4	2134.1
27.5°	2566.7	2574.9	2630.3	2679.5	2644.6	2615.9	2578.0	2500.1	2424.2	2361.7	2207.9
30°	2717.4	2724.6	2773.8	2817.8	2771.7	2737.9	2692.8	2612.8	2536.0	2488.8	2312.5
32.5°	2862.9	2861.9	2909.1	2944.9	2897.8	2871.1	2830.1	2749.2	2687.7	2667.2	2468.3
35°	2998.3	2998.3	3037.2	3073.1	3039.3	3024.9	2987.0	2922.4	2887.5	2912.1	2676.4
37.5°	3134.6	3127.4	3164.3	3204.3	3201.2	3202.2	3180.7	3150.0	3152.0	3239.1	2962.4
40°	3247.3	3244.3	3287.3	3339.6	3380.6	3413.4	3400.1	3411.3	3475.9	3638.9	3328.3
42.5°	3337.5	3344.7	3400.1	3483.1	3586.6	3653.3	3662.5	3708.6	3874.7	4126.8	3741.4
45°	3441.1	3442.1	3519.0	3646.1	3811.1	3916.7	3953.6	4072.5	4308.3	4633.2	4194.5
47.5°	3568.2	3555.9	3642.0	3820.3	4059.2	4215.0	4280.6	4429.2	4794.1	5127.3	4563.5
50°	3708.6	3686.1	3783.4	4026.4	4337.0	4531.7	4665.0	4882.3	5275.9	5533.2	4838.2
52.5°	3871.6	3850.1	3960.8	4263.2	4670.1	4906.9	5078.1	5297.4	5689.0	5842.7	5002.2
55°	4078.6	4057.1	4174.0	4547.1	5063.7	5371.2	5550.6	5735.1	6073.4	6071.3	5121.1
57.5°	4308.3	4278.5	4440.5	4905.9	5554.7	5874.5	6057.0	6147.2	6365.5	6248.7	5201.1
60°	4571.7	4545.0	4769.5	5333.3	6121.6	6417.8	6532.6	6495.7	6605.4	6353.2	5173.4
62.5°	4809.5	4797.2	5076.0	5786.4	6661.8	6911.9	6943.6	6782.7	6781.7	6355.3	4986.8
65°	5056.5	5080.1	5494.2	6308.1	7205.0	7373.1	7318.8	7067.7	6852.4	6104.1	4435.4
67.5°	5148.8	5217.5	5770.0	6779.6	7633.5	7764.7	7669.4	7210.2	6558.2	5259.5	3377.5
70°	4578.9	4708.0	5509.6	6806.3	7810.8	7935.9	7707.3	6826.8	5467.6	3484.1	1850.2
72.5°	3482.1	3632.8	4591.2	5573.2	7024.6	7309.6	6919.0	5561.9	3524.1	1526.3	621.2
75°	1948.6	2111.6	3419.5	4196.5	4716.2	4976.6	4833.1	3568.2	1561.1	398.7	185.5
77.5°	659.1	713.4	1590.9	2596.4	3113.1	2879.3	2437.6	1772.3	574.0	151.7	98.4
80°	390.5	411.0	592.5	1292.6	1638.0	1358.2	1072.2	655.0	292.1	81.0	68.7
82.5°	116.9	138.4	327.0	479.7	641.7	399.8	338.3	374.1	151.7	44.1	57.4
85°	0.0	0.0	69.7	148.6	168.1	65.6	65.6	212.2	27.7	18.5	42.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.1	3.1	4.1	9.2
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°	1911.7	1911.7	1911.7	1911.7	1911.7	1911.7	1911.7	1911.7	1911.7	1911.7	1911.7
2.5°	1899.4	1863.5	1821.5	1781.5	1743.6	1694.4	1670.8	1642.1	1617.5	1604.2	1611.4
5°	1861.5	1805.1	1719.0	1631.9	1543.7	1460.7	1385.9	1335.6	1290.5	1267.0	1272.1
7.5°	1828.7	1752.8	1618.5	1476.1	1334.6	1192.1	1076.3	986.1	916.4	887.7	882.6
10°	1814.3	1719.0	1529.4	1324.4	1107.0	915.4	751.4	651.9	581.2	546.3	552.5
12.5°	1821.5	1701.6	1453.5	1175.7	893.8	670.4	513.5	420.3	370.0	349.5	344.4
15°	1842.0	1697.5	1385.9	1024.0	689.9	468.4	354.7	316.7	306.5	304.4	304.4
17.5°	1865.6	1698.5	1316.2	870.3	523.8	347.5	303.4	296.2	293.2	291.1	292.1
20°	1889.2	1698.5	1236.2	714.5	393.6	300.3	289.1	283.9	280.9	279.8	279.8
22.5°	1917.9	1698.5	1147.0	569.9	315.7	285.0	275.7	272.7	269.6	268.6	267.5
25°	1952.7	1699.5	1048.6	445.9	287.0	271.6	264.5	261.4	258.3	256.3	256.3
27.5°	2002.9	1707.7	940.0	347.5	270.6	259.3	253.2	250.1	247.0	244.0	244.0
30°	2075.7	1728.2	818.0	287.0	255.2	246.0	239.9	237.8	234.7	231.7	230.6
32.5°	2184.4	1764.1	691.9	257.3	240.9	231.7	224.5	222.4	219.4	216.3	215.3
35°	2336.1	1829.7	568.9	238.8	222.4	213.2	209.1	208.1	204.0	200.9	200.9
37.5°	2558.5	1936.3	451.0	220.4	207.1	199.9	194.8	192.7	188.6	185.5	184.5
40°	2830.1	2074.7	350.6	206.0	192.7	185.5	180.4	177.3	172.2	168.1	166.1
42.5°	3176.6	2243.8	276.8	190.7	179.4	172.2	168.1	162.0	154.8	148.6	147.6
45°	3537.4	2418.1	228.6	176.3	167.1	160.9	155.8	147.6	137.4	130.2	128.1
47.5°	3814.2	2526.7	199.9	160.9	153.8	148.6	142.5	132.2	119.9	111.7	109.7
50°	4012.0	2543.1	178.4	146.6	142.5	137.4	128.1	115.8	102.5	94.3	92.3
52.5°	4109.4	2469.3	160.9	133.3	130.2	125.1	113.8	100.5	86.1	77.9	75.9
55°	4153.5	2329.9	144.5	122.0	117.9	111.7	99.4	85.1	70.7	63.6	61.5
57.5°	4136.0	2123.9	130.2	110.7	105.6	98.4	85.1	69.7	58.4	51.3	50.2
60°	4006.9	1834.8	115.8	99.4	93.3	85.1	71.8	57.4	47.2	42.0	41.0
62.5°	3728.1	1476.1	101.5	86.1	82.0	73.8	61.5	47.2	39.0	35.9	34.9
65°	3157.1	1043.5	87.1	72.8	70.7	62.5	51.3	39.0	33.8	31.8	30.8
67.5°	2269.4	634.5	73.8	62.5	60.5	53.3	43.1	33.8	30.8	29.7	29.7
70°	1140.9	300.3	58.4	51.3	51.3	44.1	36.9	30.8	29.7	28.7	28.7
72.5°	387.5	128.1	44.1	40.0	42.0	37.9	31.8	28.7	28.7	28.7	28.7
75°	132.2	67.7	30.8	28.7	30.8	30.8	27.7	27.7	28.7	28.7	28.7
77.5°	86.1	45.1	21.5	19.5	23.6	23.6	23.6	25.6	27.7	27.7	27.7
80°	70.7	24.6	14.4	13.3	17.4	17.4	19.5	23.6	25.6	25.6	25.6
82.5°	60.5	15.4	8.2	9.2	12.3	13.3	16.4	19.5	22.6	23.6	23.6
85°	41.0	8.2	6.2	7.2	8.2	10.3	13.3	16.4	18.5	20.5	20.5
87.5°	11.3	3.1	4.1	5.1	5.1	7.2	10.3	12.3	14.4	15.4	15.4
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)