

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: P633363

Luminaire Tested: GWS-SA2E-750-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-750-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14334.2 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

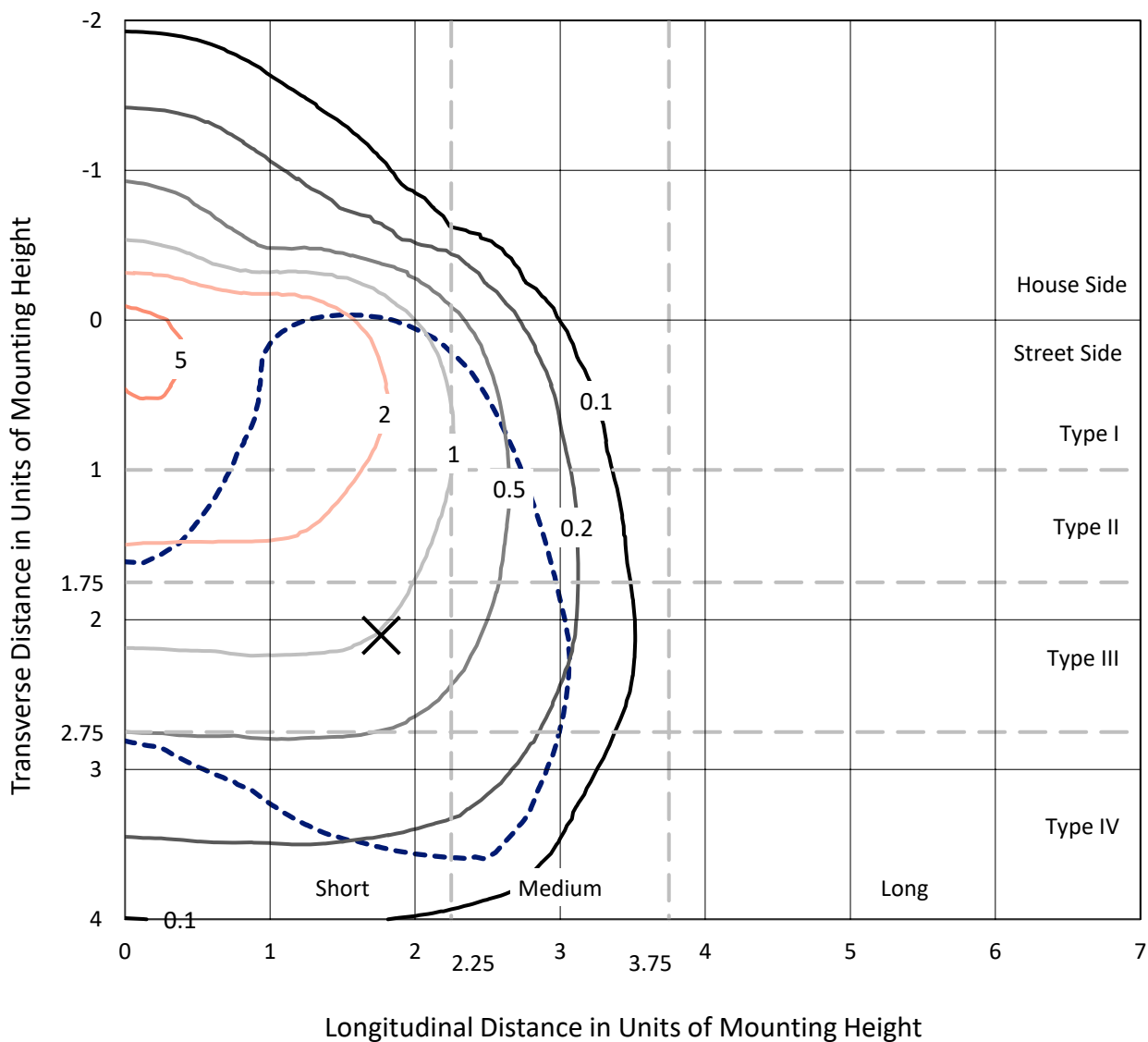
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

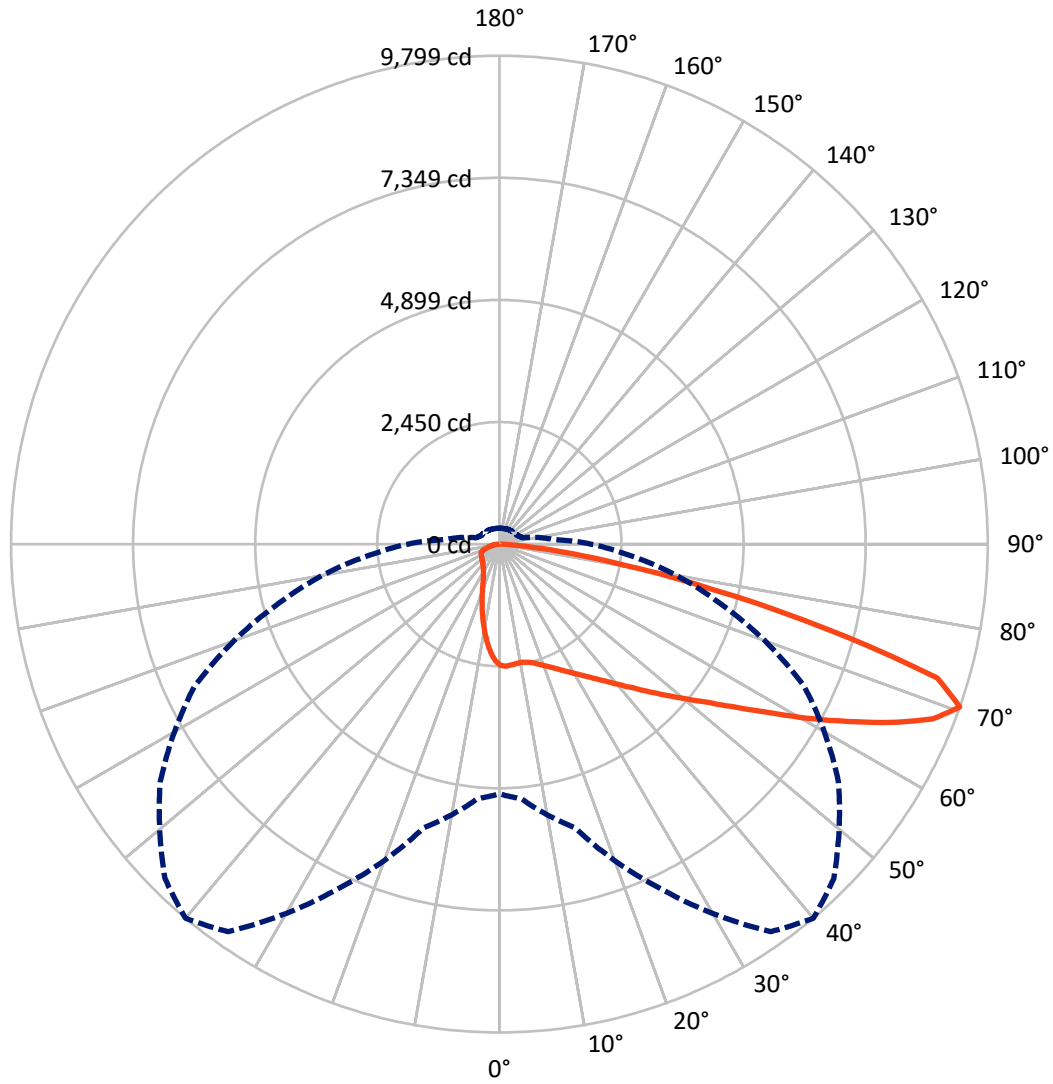
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 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	2207.8	0.0	2207.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	12126.4	0.0	12126.4
	% Fixture	84.6	0.0	84.6
Total	Lumens	14334.2	0.0	14334.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.0	1.5
10°-20°	560.5	3.9
20°-30°	880.1	6.1
30°-40°	1323.2	9.2
40°-50°	2042.5	14.2
50°-60°	3033.2	21.2
60°-70°	3823.3	26.7
70°-80°	2211.0	15.4
80°-90°	245.4	1.7
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°	14334.2	100.0
0°-180°	14334.2	100.0

Coefficient of Utilization



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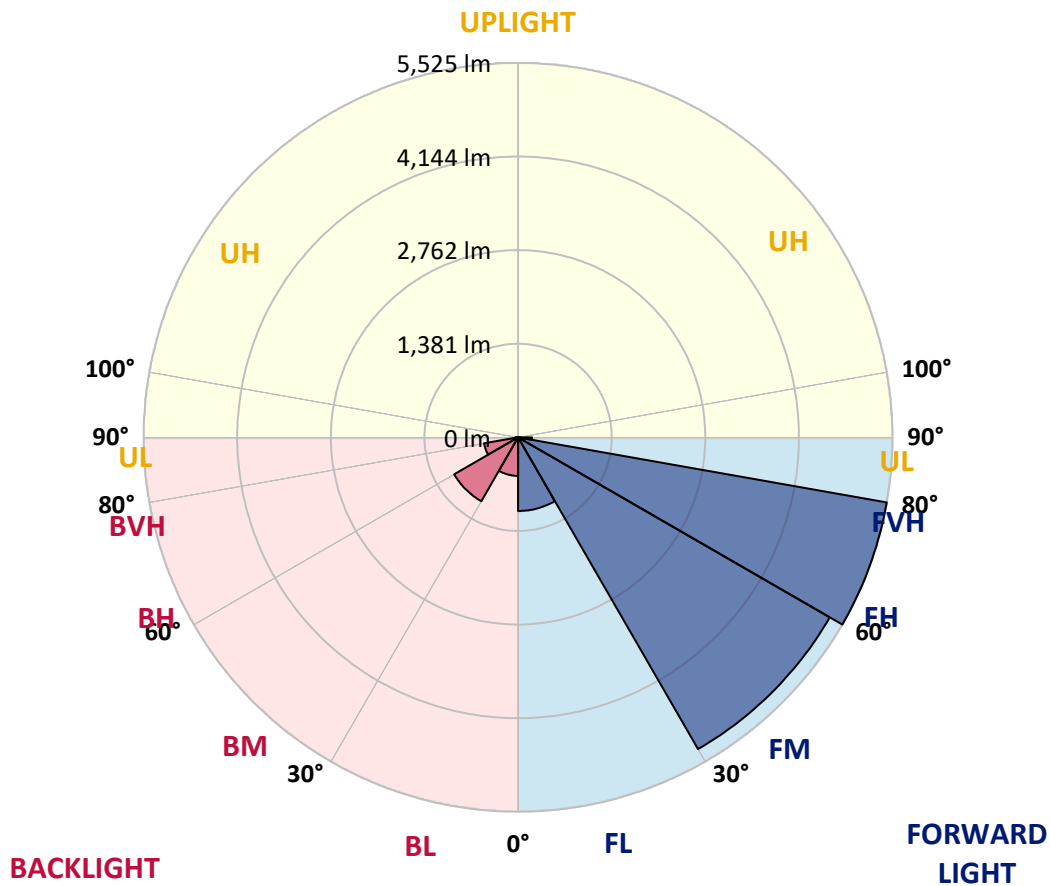
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1086.6	7.6			
FM (30°-60°)	5310.6	37.0			
FH (60°-80°)	5524.7	38.5			G3/7500
FVH (80°-90°)	204.4	1.4			G2/225
BL (0°-30°)	569.0	4.0	B2/1000		
BM (30°-60°)	1088.3	7.6	B2/2500		
BH (60°-80°)	509.6	3.6	B2/1000		G2/1000
BVH (80°-90°)	41.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1
2.5°	2449.1	2453.4	2456.6	2460.9	2458.7	2452.3	2457.7	2457.7	2445.9	2433.0	2421.3
5°	2452.3	2457.7	2456.6	2455.5	2447.0	2436.3	2436.3	2429.8	2409.5	2389.2	2369.9
7.5°	2445.9	2444.8	2443.7	2440.5	2430.9	2419.1	2417.0	2404.2	2377.4	2349.6	2321.8
10°	2417.0	2415.9	2419.1	2426.6	2424.5	2413.8	2413.8	2402.0	2371.0	2336.7	2300.4
12.5°	2393.5	2393.5	2406.3	2426.6	2434.1	2429.8	2430.9	2422.3	2387.0	2346.4	2303.6
15°	2396.7	2397.7	2425.6	2458.7	2472.6	2469.4	2470.5	2460.9	2421.3	2380.6	2322.8
17.5°	2418.1	2423.4	2471.6	2517.6	2535.8	2531.5	2524.0	2507.9	2463.0	2417.0	2346.4
20°	2463.0	2471.6	2533.6	2591.4	2612.8	2603.2	2590.3	2558.2	2509.0	2458.7	2372.1
22.5°	2551.8	2557.2	2625.6	2682.3	2699.5	2687.7	2662.0	2616.0	2559.3	2506.9	2403.1
25°	2677.0	2683.4	2748.7	2801.1	2796.8	2782.9	2747.6	2690.9	2623.5	2567.9	2448.0
27.5°	2825.7	2836.4	2900.6	2942.3	2914.5	2894.2	2854.6	2786.1	2710.2	2659.9	2516.5
30°	2988.3	2992.6	3047.2	3088.9	3046.1	3018.3	2970.2	2896.3	2827.8	2790.4	2619.2
32.5°	3145.6	3149.9	3197.0	3220.5	3175.6	3155.3	3113.5	3035.4	2987.3	2966.9	2772.2
35°	3311.5	3310.4	3348.9	3369.2	3323.2	3314.7	3271.9	3212.0	3203.4	3230.1	2995.8
37.5°	3477.3	3467.7	3488.0	3514.8	3489.1	3497.6	3469.8	3449.5	3482.7	3552.2	3293.3
40°	3610.0	3610.0	3631.4	3664.5	3673.1	3710.5	3694.5	3721.2	3828.2	3994.1	3661.3
42.5°	3727.7	3728.7	3773.7	3825.0	3887.1	3944.9	3957.7	4027.3	4248.7	4508.7	4123.5
45°	3850.7	3851.8	3912.8	3987.7	4119.3	4229.5	4255.1	4411.4	4728.1	5044.8	4625.3
47.5°	3993.0	3981.2	4065.8	4191.0	4378.2	4536.5	4602.9	4824.4	5224.5	5614.0	5098.3
50°	4153.5	4128.9	4223.0	4439.2	4670.3	4887.5	4998.8	5252.3	5757.3	6139.3	5543.4
52.5°	4334.3	4320.4	4418.8	4682.1	5035.1	5285.5	5436.4	5769.1	6275.2	6662.5	5896.4
55°	4559.0	4525.8	4668.1	5003.0	5463.1	5782.0	5960.6	6280.5	6841.2	7137.6	6166.1
57.5°	4805.1	4768.7	4959.2	5404.3	6019.5	6369.3	6593.0	6856.2	7374.0	7501.3	6324.4
60°	5070.4	5058.7	5284.4	5875.0	6682.8	7089.4	7251.0	7489.6	7837.3	7712.1	6284.8
62.5°	5313.3	5309.0	5637.5	6385.4	7385.8	7833.0	7961.4	8024.5	8171.1	7698.2	5970.3
65°	5569.0	5605.4	6049.4	6977.1	8191.5	8630.1	8683.6	8523.1	8283.5	7333.4	5326.2
67.5°	5601.1	5671.7	6308.4	7531.3	8955.4	9369.5	9326.7	8712.5	7951.8	6318.0	4174.9
70°	5009.5	5132.5	5895.4	7615.8	9493.6	9798.5	9489.3	8304.9	6748.1	4577.2	2625.6
72.5°	4185.6	4291.5	4965.6	6494.5	8799.2	9187.6	8769.2	7029.5	4768.7	2625.6	1337.4
75°	3258.0	3381.0	4002.6	5162.5	6587.6	6742.8	6533.0	4902.5	2621.4	1082.8	607.7
77.5°	1987.9	2076.8	2560.4	3497.6	4609.3	4377.1	3709.5	2748.7	1150.2	518.9	375.5
80°	879.5	934.1	1261.5	1878.8	2663.1	2517.6	1984.7	1173.7	629.1	329.5	262.1
82.5°	471.8	507.2	621.6	743.6	1169.4	1222.9	991.8	676.2	338.1	188.3	149.8
85°	207.6	227.9	282.5	269.6	384.1	377.7	380.9	464.4	161.6	86.7	97.4
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	11.8	62.1	16.0	25.7	22.5
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°	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1
2.5°	2408.4	2389.2	2383.8	2377.4	2365.6	2345.3	2330.3	2313.2	2305.7	2297.2	2298.2
5°	2348.5	2325.0	2302.5	2273.6	2237.2	2196.6	2168.8	2136.7	2119.5	2103.5	2107.8
7.5°	2297.2	2260.8	2214.8	2153.8	2088.5	2015.8	1956.9	1910.9	1879.9	1858.5	1869.2
10°	2265.1	2222.3	2142.0	2042.5	1932.3	1821.0	1736.5	1657.3	1608.1	1569.6	1567.5
12.5°	2258.6	2203.0	2086.4	1941.9	1782.5	1633.8	1509.7	1402.7	1337.4	1289.3	1307.5
15°	2265.1	2194.4	2038.2	1848.9	1647.7	1446.6	1292.5	1169.4	1091.3	1047.5	1044.3
17.5°	2272.6	2185.9	1983.7	1748.3	1506.5	1276.4	1097.8	967.2	887.0	843.1	844.2
20°	2279.0	2173.0	1919.5	1638.1	1363.1	1118.1	933.0	808.9	737.2	705.1	710.4
22.5°	2289.7	2160.2	1851.0	1520.4	1216.5	965.1	802.5	701.9	659.1	637.7	638.8
25°	2310.0	2152.7	1780.4	1392.0	1072.1	843.1	712.6	645.2	618.4	605.6	604.5
27.5°	2351.7	2159.1	1706.6	1267.9	941.5	750.0	654.8	610.9	592.7	584.2	583.1
30°	2421.3	2184.8	1642.4	1141.6	829.2	677.3	615.2	588.5	577.8	570.3	569.2
32.5°	2527.2	2233.0	1572.8	1023.9	738.3	623.8	584.2	570.3	562.8	558.5	558.5
35°	2687.7	2320.7	1504.3	921.2	667.6	582.0	559.6	554.2	547.8	545.7	547.8
37.5°	2918.8	2460.9	1442.3	831.3	617.4	549.9	532.8	535.0	529.6	532.8	536.0
40°	3212.0	2648.1	1389.9	757.5	579.9	526.4	509.3	516.8	513.6	516.8	522.1
42.5°	3583.2	2880.3	1350.3	699.7	553.2	507.2	491.1	498.6	496.5	500.7	506.1
45°	3997.3	3186.3	1332.1	659.1	533.9	493.2	476.1	481.5	479.3	482.5	487.9
47.5°	4394.2	3464.5	1348.1	635.5	517.9	481.5	463.3	465.4	464.4	463.3	466.5
50°	4736.6	3685.9	1394.1	628.1	507.2	469.7	452.6	453.7	450.4	444.0	446.2
52.5°	5015.9	3863.6	1421.9	628.1	501.8	456.9	440.8	441.9	435.5	426.9	428.0
55°	5199.9	3935.2	1399.5	627.0	499.7	446.2	429.0	430.1	423.7	413.0	414.1
57.5°	5252.3	3865.7	1305.3	615.2	497.5	437.6	417.3	419.4	415.1	403.4	403.4
60°	5105.7	3611.0	1133.1	588.5	492.2	432.3	408.7	411.9	409.8	398.0	398.0
62.5°	4721.6	3158.5	927.6	547.8	477.2	425.8	401.2	407.6	413.0	406.6	405.5
65°	4002.6	2530.4	754.3	502.9	457.9	415.1	390.5	406.6	418.3	426.9	426.9
67.5°	3003.3	1811.4	615.2	455.8	429.0	393.7	376.6	391.6	400.2	405.5	408.7
70°	1830.7	1065.7	484.7	401.2	387.3	361.6	348.8	333.8	322.1	319.9	321.0
72.5°	895.5	609.9	393.7	341.3	330.6	307.1	278.2	271.8	266.4	263.2	262.1
75°	493.2	424.8	325.3	283.5	264.3	235.4	229.0	218.3	216.1	211.8	212.9
77.5°	348.8	334.9	268.6	230.0	201.1	186.2	189.4	181.9	181.9	178.7	177.6
80°	262.1	263.2	206.5	168.0	148.7	143.4	146.6	146.6	144.4	143.4	142.3
82.5°	165.8	187.2	139.1	108.1	105.9	107.0	105.9	104.9	107.0	103.8	102.7
85°	114.5	134.8	84.5	64.2	64.2	63.1	65.3	64.2	66.3	63.1	63.1
87.5°	25.7	59.9	31.0	19.3	20.3	19.3	20.3	21.4	23.5	24.6	24.6
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)