

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: P642228

Luminaire Tested: GWS-SA6C-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642228
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-SA6C-740-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16866.4 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

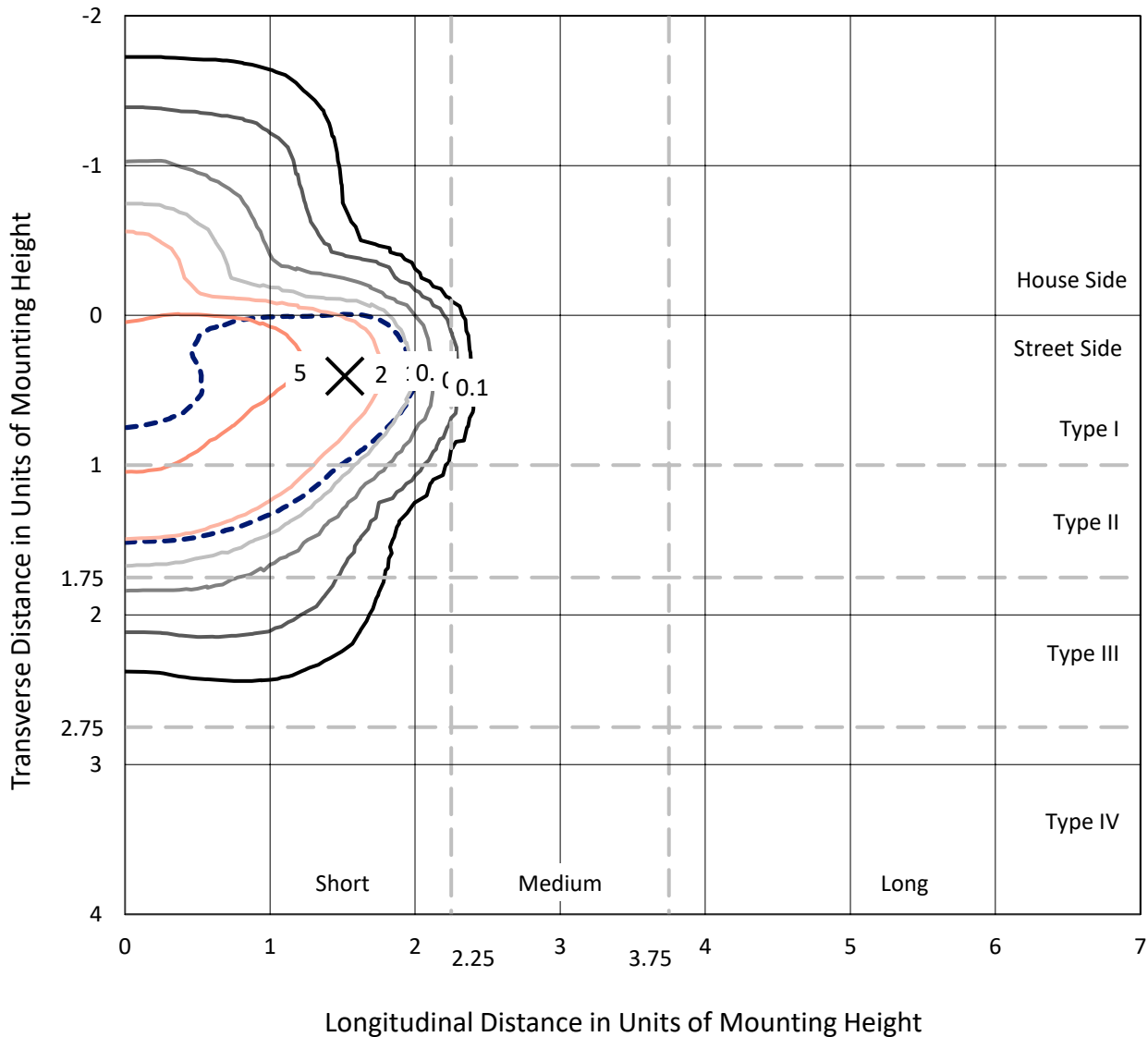
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

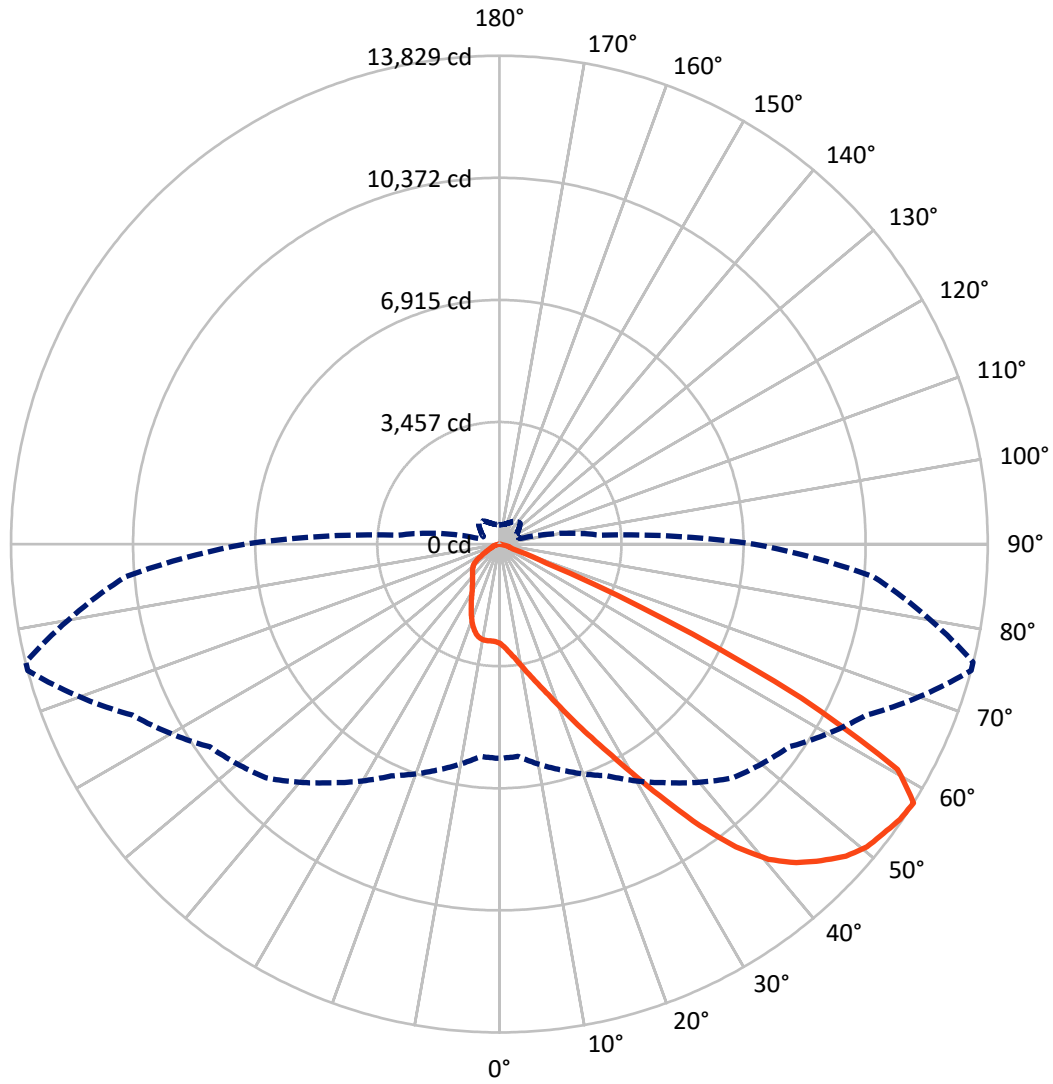
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	2755.1	0.0	2755.1
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	14111.3	0.0	14111.3
	% Fixture	83.7	0.0	83.7
Total	Lumens	16866.4	0.0	16866.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.3	1.7
10°-20°	929.9	5.5
20°-30°	1702.8	10.1
30°-40°	2825.1	16.8
40°-50°	4314.7	25.6
50°-60°	4848.3	28.7
60°-70°	1788.3	10.6
70°-80°	170.9	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°	16866.4	100.0
0°-180°	16866.4	100.0

Coefficient of Utilization



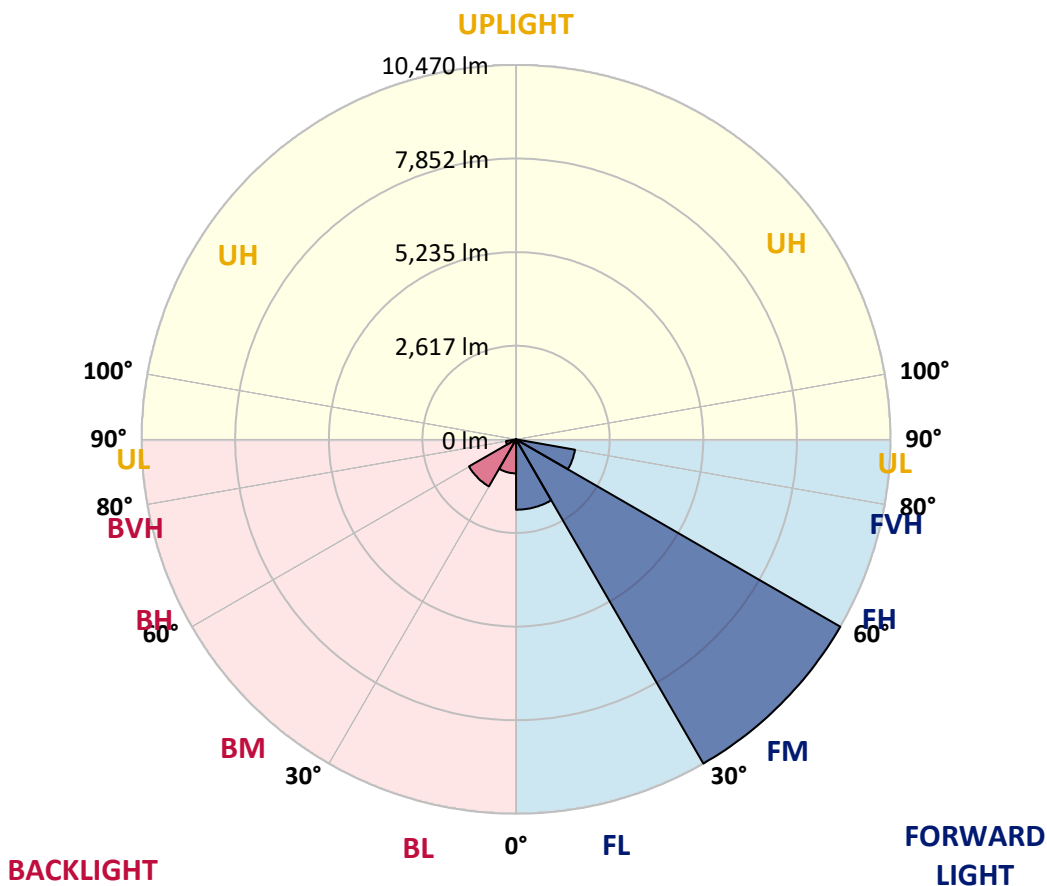
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1968.3	11.7			
FM (30°-60°)	10469.9	62.1			
FH (60°-80°)	1673.1	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	950.7	5.6	B2/1000		
BM (30°-60°)	1518.2	9.0	B2/2500		
BH (60°-80°)	286.1	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: 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°	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1
2.5°	3142.8	3175.4	3165.2	3144.9	3132.7	3089.9	3063.4	2986.1	2931.1	2925.0	2874.1
5°	3539.8	3533.7	3525.5	3501.1	3480.7	3413.6	3334.2	3203.9	3087.9	3073.6	2965.7
7.5°	3757.6	3761.6	3765.7	3761.6	3747.4	3696.5	3609.0	3456.3	3279.2	3267.0	3096.0
10°	3847.1	3855.3	3875.6	3914.3	3948.9	3944.8	3893.9	3737.2	3519.4	3499.0	3269.0
12.5°	3889.9	3900.0	3932.6	4005.9	4099.5	4172.8	4180.9	4040.5	3800.3	3767.7	3474.6
15°	3948.9	3959.1	3999.8	4095.5	4231.8	4376.4	4470.0	4380.4	4111.7	4077.1	3700.6
17.5°	3975.4	3989.6	4048.6	4174.8	4351.9	4573.8	4785.5	4777.4	4480.2	4453.7	3963.1
20°	4026.2	4036.4	4089.3	4225.7	4439.5	4759.0	5115.2	5243.5	4930.0	4891.3	4280.7
22.5°	4187.1	4191.1	4215.6	4301.0	4500.5	4893.4	5451.1	5787.0	5461.3	5410.4	4636.9
25°	4449.6	4447.6	4457.8	4472.0	4618.6	5029.8	5774.8	6399.7	6069.9	6014.9	5039.9
27.5°	4783.5	4783.5	4807.9	4767.2	4826.2	5198.7	6094.3	7103.9	6778.3	6700.9	5481.6
30°	5176.3	5174.3	5231.3	5166.1	5184.5	5465.4	6438.3	7871.3	7633.2	7537.5	5990.5
32.5°	5709.6	5697.4	5762.5	5673.0	5611.9	5868.4	6857.6	8673.3	8657.0	8510.5	6629.7
35°	6383.4	6363.0	6383.4	6295.8	6185.9	6432.2	7407.2	9473.3	9792.9	9638.2	7391.0
37.5°	7053.1	7118.2	7140.6	6990.0	6900.4	7146.7	8068.8	10189.8	10877.8	10717.0	8182.8
40°	7842.8	7822.5	7899.8	7730.9	7673.9	7946.6	8716.1	10723.1	11736.8	11584.1	8887.1
42.5°	8425.0	8461.6	8557.3	8463.7	8418.9	8675.4	9259.6	11034.5	12333.2	12182.6	9389.8
45°	9123.2	9149.6	9186.3	9108.9	9062.1	9314.5	9652.4	11170.9	12787.1	12624.3	9727.7
47.5°	9878.4	9898.7	9898.7	9739.9	9589.3	9693.1	9915.0	11248.3	13204.4	13047.6	9978.1
50°	10419.8	10430.0	10519.5	10407.6	10079.9	9919.1	10035.1	11323.6	13481.2	13334.7	10059.5
52.5°	9939.4	9927.2	10222.4	10454.4	10541.9	10222.4	10242.7	11433.5	13615.6	13489.4	10124.6
55°	8370.0	8349.7	8764.9	9328.8	10100.2	10509.4	10493.1	11498.6	13764.1	13686.8	10360.8
57.5°	6067.9	6033.3	6611.4	7238.3	8249.9	9359.3	10010.7	11462.0	13829.3	13823.2	10635.6
60°	3647.6	3619.1	4164.7	4824.2	5605.8	6721.3	7802.1	10267.1	12958.1	12970.3	9921.1
62.5°	2245.2	2271.6	2764.2	3100.1	3391.2	3727.0	4351.9	6906.5	9599.5	9678.9	6971.6
65°	1510.4	1530.7	1986.7	2410.0	2410.0	1970.4	1691.5	3301.6	5121.4	4987.0	3297.5
67.5°	1013.7	1036.1	1396.4	1891.0	1962.2	1374.0	686.0	985.2	1426.9	1384.1	816.2
70°	596.4	620.8	930.2	1296.6	1428.9	956.7	458.0	417.3	405.1	392.9	317.5
72.5°	266.7	276.8	474.3	659.5	602.5	403.0	323.6	333.8	315.5	309.4	258.5
75°	81.4	85.5	122.1	142.5	144.5	144.5	195.4	262.6	248.3	250.4	199.5
77.5°	20.4	20.4	32.6	30.5	16.3	14.2	36.6	59.0	61.1	55.0	40.7
80°	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1	2813.1
2.5°	2851.8	2798.8	2764.2	2715.4	2680.8	2644.1	2611.6	2585.1	2570.9	2566.8	2568.8
5°	2916.9	2833.4	2752.0	2658.4	2593.2	2532.2	2483.3	2444.7	2426.3	2420.2	2420.2
7.5°	3016.6	2900.6	2756.1	2609.5	2499.6	2403.9	2346.9	2304.2	2287.9	2283.8	2271.6
10°	3146.9	2988.1	2750.0	2522.0	2367.3	2267.6	2226.9	2214.6	2220.7	2222.8	2220.7
12.5°	3303.6	3079.7	2711.3	2393.8	2226.9	2165.8	2169.9	2202.4	2239.1	2257.4	2261.5
15°	3470.6	3163.2	2623.8	2241.1	2106.8	2104.7	2163.8	2239.1	2310.3	2340.8	2349.0
17.5°	3657.8	3230.4	2489.4	2078.3	2002.9	2062.0	2167.8	2283.8	2379.5	2430.4	2440.6
20°	3863.4	3285.3	2318.5	1925.6	1911.3	2017.2	2163.8	2306.2	2424.3	2481.3	2491.5
22.5°	4077.1	3324.0	2121.0	1785.1	1827.9	1966.3	2125.1	2263.5	2375.4	2440.6	2448.7
25°	4321.4	3328.1	1919.5	1667.1	1750.5	1897.1	2031.4	2145.4	2239.1	2296.1	2302.2
27.5°	4535.1	3279.2	1740.4	1571.4	1679.3	1811.6	1901.2	1964.3	2029.4	2062.0	2064.0
30°	4781.4	3193.7	1571.4	1494.1	1606.0	1705.8	1750.5	1764.8	1770.9	1777.0	1768.9
32.5°	5074.5	3089.9	1445.2	1418.8	1522.6	1589.7	1601.9	1573.5	1538.8	1490.0	1477.8
35°	5434.8	2996.3	1341.4	1345.5	1431.0	1471.7	1461.5	1400.4	1333.3	1274.2	1264.1
37.5°	5825.6	2916.9	1262.0	1274.2	1331.2	1359.7	1329.2	1262.0	1231.5	1180.6	1182.6
40°	6171.7	2851.8	1190.8	1203.0	1229.5	1255.9	1207.1	1162.3	1219.3	1215.2	1219.3
42.5°	6418.0	2796.8	1129.7	1123.6	1141.9	1160.2	1123.6	1101.2	1196.9	1170.4	1184.7
45°	6562.5	2745.9	1078.8	1042.2	1070.7	1103.2	1078.8	1050.3	1082.9	960.8	950.6
47.5°	6660.2	2717.4	1034.0	962.8	1013.7	1070.7	1019.8	950.6	903.8	797.9	789.8
50°	6670.4	2703.2	981.1	881.4	946.5	1007.6	948.5	852.9	785.7	738.9	732.8
52.5°	6723.3	2731.7	907.8	777.6	848.8	946.5	905.8	810.1	718.5	677.8	669.7
55°	6959.4	2851.8	785.7	635.1	738.9	899.7	871.2	722.6	635.1	610.7	604.5
57.5°	7203.7	2876.2	618.8	502.8	643.2	832.5	795.9	665.6	580.1	551.6	545.5
60°	6586.9	2369.3	464.1	415.2	567.9	769.4	736.9	631.0	531.3	496.7	490.6
62.5°	4327.5	1280.3	368.4	352.1	478.3	651.4	671.7	569.9	474.3	437.6	435.6
65°	1994.8	594.4	282.9	278.9	374.5	519.1	578.1	498.7	401.0	368.4	368.4
67.5°	543.5	295.1	221.9	205.6	254.4	348.1	421.4	372.5	285.0	246.3	244.3
70°	270.7	238.2	199.5	177.1	183.2	215.8	248.3	207.6	144.5	118.1	116.0
72.5°	221.9	195.4	168.9	150.6	138.4	132.3	128.2	103.8	67.2	50.9	48.9
75°	164.9	140.5	120.1	97.7	83.5	77.3	69.2	50.9	28.5	16.3	14.2
77.5°	36.6	34.6	32.6	24.4	22.4	18.3	14.2	10.2	4.1	0.0	0.0
80°	2.0	2.0	2.0	2.0	2.0	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)