

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: P638272

Luminaire Tested: GWS-SA4E-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-740-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20514.4 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

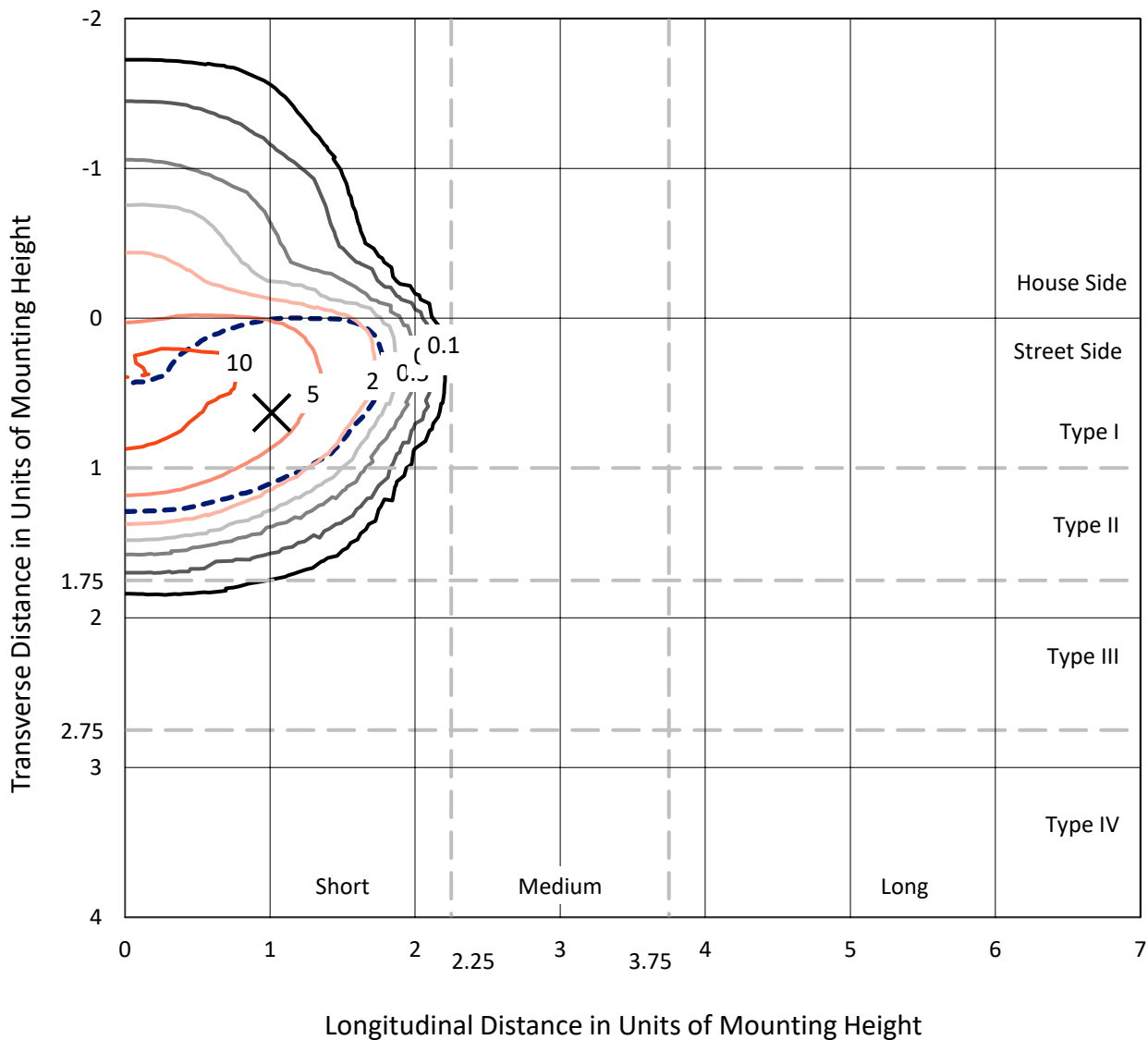
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

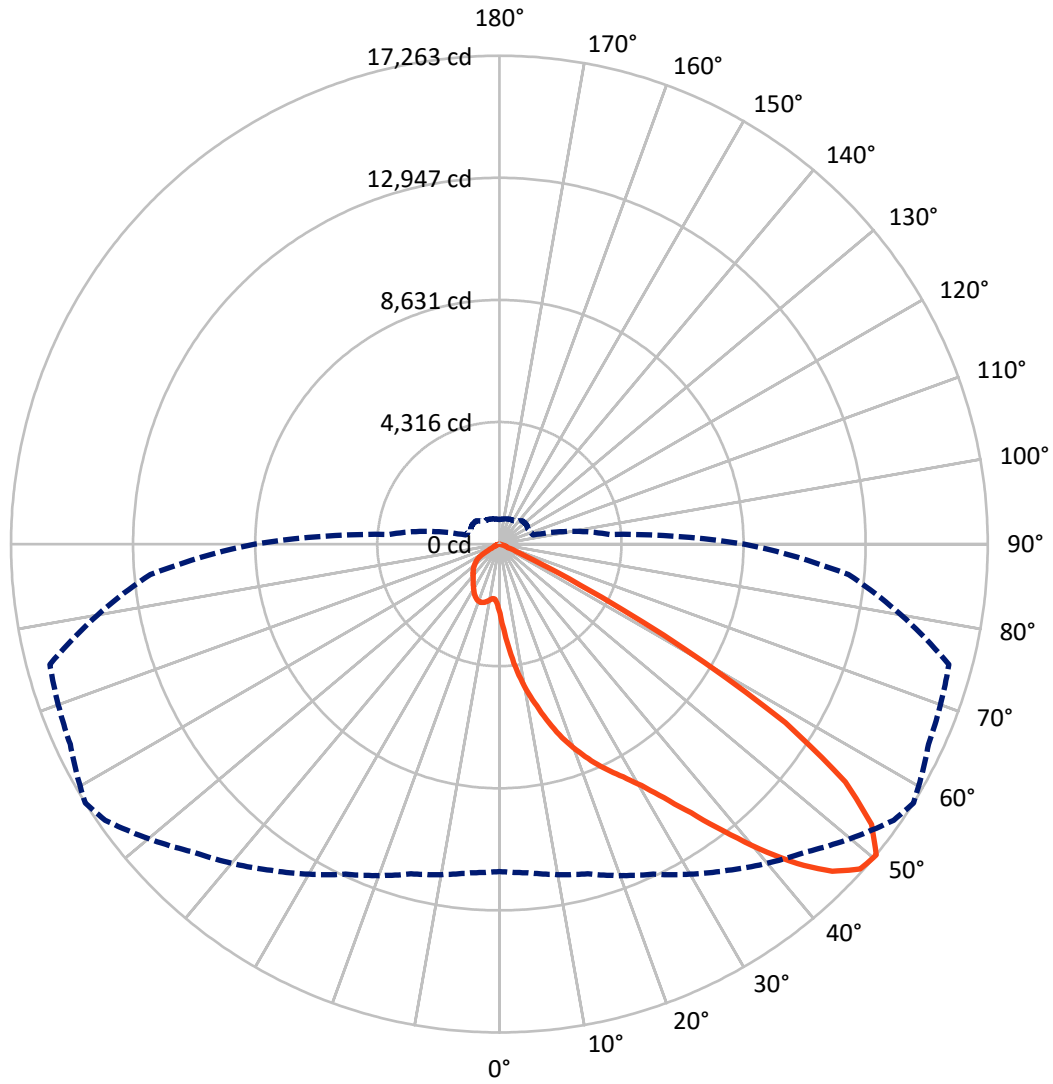
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2873.3	0.0	2873.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	17641.1	0.0	17641.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	20514.4	0.0	20514.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.6	1.5
10°-20°	1201.7	5.9
20°-30°	2431.8	11.9
30°-40°	4302.1	21.0
40°-50°	6271.5	30.6
50°-60°	5026.8	24.5
60°-70°	905.6	4.4
70°-80°	71.4	0.3
80°-90°	0.0	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°	20514.4	100.0
0°-180°	20514.4	100.0

Coefficient of Utilization



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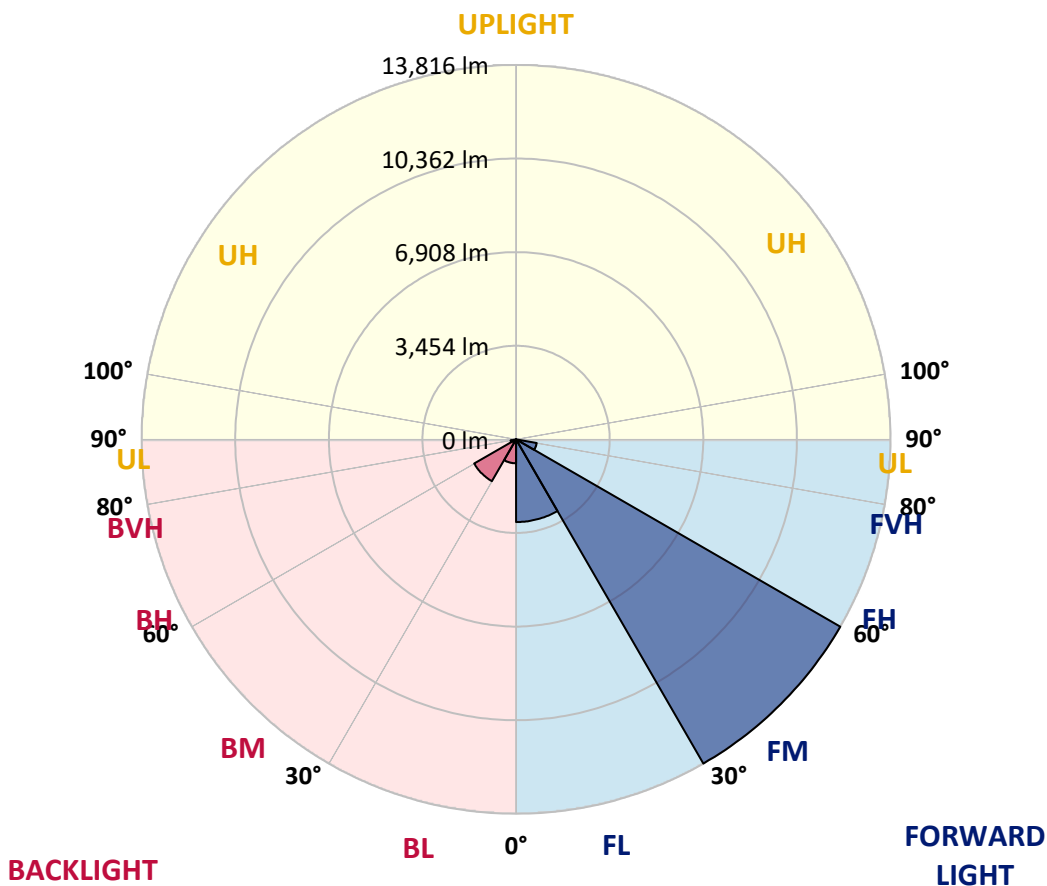
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3052.5	14.9			
FM (30°-60°)	13815.8	67.3			
FH (60°-80°)	772.8	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	884.6	4.3	B2/1000		
BM (30°-60°)	1784.5	8.7	B2/2500		
BH (60°-80°)	204.2	1.0	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°	58°	65°	75°	85°
0°	2450.4	2450.4	2450.4	2450.4	2450.4	2450.4	2450.4	2450.4	2450.4	2450.4	2450.4
2.5°	3626.3	3569.2	3536.3	3510.0	3393.7	3209.4	3088.8	3025.2	2919.9	2742.2	2588.6
5°	4731.9	4690.2	4613.4	4560.8	4411.6	4150.6	3880.7	3773.2	3534.1	3132.7	2772.9
7.5°	5464.6	5433.9	5405.4	5335.2	5194.8	4957.9	4659.5	4547.6	4179.1	3608.7	3018.6
10°	6028.4	6004.3	5971.4	5969.2	5859.5	5646.7	5354.9	5238.7	4839.4	4126.4	3308.2
12.5°	6524.2	6504.4	6497.9	6559.3	6489.1	6331.1	6015.2	5870.5	5447.1	4655.1	3628.4
15°	6864.2	6859.8	6888.3	7009.0	7048.5	6976.1	6710.7	6554.9	6067.9	5186.0	3981.6
17.5°	7020.0	7033.1	7088.0	7296.4	7471.9	7533.3	7329.3	7197.7	6684.3	5723.5	4359.0
20°	7285.4	7281.0	7313.9	7511.4	7726.4	7945.7	7884.3	7772.4	7307.4	6291.7	4778.0
22.5°	8033.5	7969.9	7899.7	7930.4	8007.2	8263.8	8377.9	8320.9	7950.1	6875.2	5210.1
25°	9183.0	9117.2	8891.2	8671.9	8527.1	8643.3	8799.1	8827.6	8588.5	7474.1	5662.0
27.5°	10402.7	10343.5	10089.0	9760.0	9345.3	9143.5	9259.8	9316.8	9215.9	8187.0	6142.5
30°	11545.7	11466.7	11188.1	10780.0	10299.6	9990.3	9858.7	9898.2	9957.4	9031.6	6706.3
32.5°	12537.2	12478.0	12144.6	11714.6	11251.7	10929.2	10622.1	10687.9	10832.7	10064.9	7428.0
35°	13377.4	13346.7	12993.5	12565.8	12076.5	11912.0	11648.8	11661.9	11806.7	11313.1	8307.7
37.5°	14108.0	14055.3	13735.0	13338.0	12949.7	12923.3	12850.9	12857.5	12932.1	12767.6	9319.0
40°	14568.6	14520.4	14292.2	14046.5	13770.1	13774.5	14149.6	14178.2	14092.6	14195.7	10387.4
42.5°	14741.9	14706.8	14584.0	14586.2	14557.7	14687.1	15391.3	15443.9	15136.8	15316.7	11300.0
45°	14441.4	14426.0	14434.8	14750.7	15092.9	15492.2	16407.0	16499.1	16064.8	16060.4	12012.9
47.5°	13471.8	13441.1	13697.7	14235.2	15027.1	15803.7	17021.2	17163.8	16714.1	16486.0	12460.5
50°	11572.0	11659.7	12065.6	12872.9	14077.2	15375.9	17014.7	17262.6	16738.3	16448.7	12385.9
52.5°	8382.3	8364.7	9253.2	10363.2	11828.7	14007.0	16110.8	16472.8	16152.5	16082.3	12219.1
55°	4560.8	4720.9	5319.8	6789.6	8619.2	11416.2	14046.5	14836.3	15207.0	15948.5	12519.7
57.5°	1676.0	1746.2	2121.3	3161.2	4563.0	7098.9	10729.6	11920.8	13065.9	15575.6	12469.2
60°	675.7	688.8	838.0	1162.7	1917.3	3613.1	6436.4	7493.8	8573.1	11923.0	9569.1
62.5°	491.4	508.9	568.2	680.1	969.6	1579.5	2775.1	3227.0	3527.5	5905.6	4714.4
65°	397.1	410.2	458.5	508.9	640.6	849.0	895.0	862.1	857.8	1526.8	1081.5
67.5°	329.1	342.2	377.3	412.4	460.7	423.4	307.1	322.5	263.2	261.1	212.8
70°	241.3	256.7	291.8	329.1	276.4	114.1	177.7	263.2	199.6	166.7	162.3
72.5°	182.1	193.0	226.0	215.0	81.2	43.9	118.5	190.9	153.6	122.8	120.7
75°	136.0	142.6	114.1	35.1	8.8	11.0	43.9	79.0	85.6	70.2	70.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	6.6	8.8	11.0	13.2
80°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2450.4	2450.4	2450.4	2450.4	2450.4	2450.4	2450.4	2450.4	2450.4	2450.4	2450.4
2.5°	2500.9	2408.7	2277.1	2167.4	2084.1	2002.9	1941.5	1880.0	1877.8	1847.1	1840.5
5°	2606.2	2439.4	2198.1	2024.8	1919.5	1855.9	1812.0	1790.1	1779.1	1768.2	1763.8
7.5°	2757.5	2518.4	2185.0	2000.7	1912.9	1871.3	1840.5	1827.4	1820.8	1812.0	1809.8
10°	2944.0	2632.5	2233.2	2046.8	1970.0	1930.5	1897.6	1877.8	1866.9	1851.5	1847.1
12.5°	3167.8	2772.9	2310.0	2123.5	2042.4	1989.7	1945.8	1917.3	1902.0	1882.2	1877.8
15°	3409.1	2924.3	2395.6	2193.7	2097.2	2029.2	1974.4	1930.5	1902.0	1877.8	1871.3
17.5°	3659.2	3077.8	2472.3	2242.0	2123.5	2042.4	1963.4	1904.2	1869.1	1838.4	1829.6
20°	3940.0	3235.8	2522.8	2250.8	2114.8	2007.3	1915.1	1840.5	1805.4	1763.8	1755.0
22.5°	4233.9	3382.8	2544.7	2231.0	2066.5	1941.5	1842.7	1766.0	1715.5	1671.6	1658.5
25°	4519.1	3514.4	2533.8	2176.2	1994.1	1849.3	1748.4	1669.4	1614.6	1570.7	1559.8
27.5°	4821.8	3624.1	2494.3	2095.0	1895.4	1748.4	1651.9	1583.9	1533.4	1485.2	1474.2
30°	5161.9	3725.0	2430.7	1996.3	1779.1	1645.3	1570.7	1524.7	1469.8	1419.4	1404.0
32.5°	5572.1	3814.9	2338.5	1877.8	1676.0	1555.4	1513.7	1478.6	1415.0	1362.3	1351.3
35°	6041.6	3889.5	2222.3	1755.0	1575.1	1498.3	1489.6	1443.5	1360.1	1298.7	1285.5
37.5°	6585.6	3961.9	2084.1	1634.3	1500.5	1472.0	1474.2	1395.2	1294.3	1219.7	1210.9
40°	7171.3	4034.3	1930.5	1529.0	1432.5	1456.6	1436.9	1325.0	1160.5	1088.1	1079.3
42.5°	7781.2	4113.3	1774.7	1430.3	1375.5	1397.4	1368.9	1184.6	1066.2	1028.9	1024.5
45°	8331.8	4207.6	1605.8	1331.6	1318.4	1311.9	1263.6	1072.7	1022.3	996.0	993.8
47.5°	8728.9	4192.2	1425.9	1237.3	1257.0	1235.1	1088.1	1020.1	978.4	943.3	934.5
50°	8656.5	3924.6	1239.5	1132.0	1178.0	1158.3	978.4	958.7	921.4	884.1	870.9
52.5°	8472.2	3560.4	1077.1	1020.1	1092.5	1046.4	903.8	884.1	851.2	802.9	787.6
55°	8571.0	3218.2	949.9	930.1	1004.7	866.5	820.5	789.7	754.6	702.0	695.4
57.5°	8252.9	2625.9	763.4	776.6	888.5	739.3	719.5	671.3	612.1	577.0	572.6
60°	5712.5	1410.6	478.2	493.6	642.8	620.8	645.0	601.1	528.7	495.8	489.2
62.5°	2623.7	566.0	261.1	250.1	337.8	421.2	552.8	548.4	458.5	405.8	401.5
65°	636.2	258.9	186.5	175.5	190.9	252.3	359.8	432.2	370.7	309.3	302.7
67.5°	206.2	210.6	171.1	160.1	168.9	188.7	215.0	239.1	236.9	217.2	212.8
70°	164.5	190.9	157.9	144.8	144.8	151.4	144.8	116.3	100.9	109.7	114.1
72.5°	122.8	144.8	125.0	111.9	107.5	105.3	89.9	65.8	46.1	41.7	39.5
75°	72.4	81.2	76.8	65.8	61.4	54.8	43.9	28.5	15.4	11.0	6.6
77.5°	13.2	15.4	17.5	13.2	11.0	8.8	6.6	2.2	0.0	0.0	0.0
80°	0.0	2.2	2.2	2.2	0.0	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)