

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: P637773

Luminaire Tested: GWS-SA4D-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637773
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-SA4D-740-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 14546.4 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

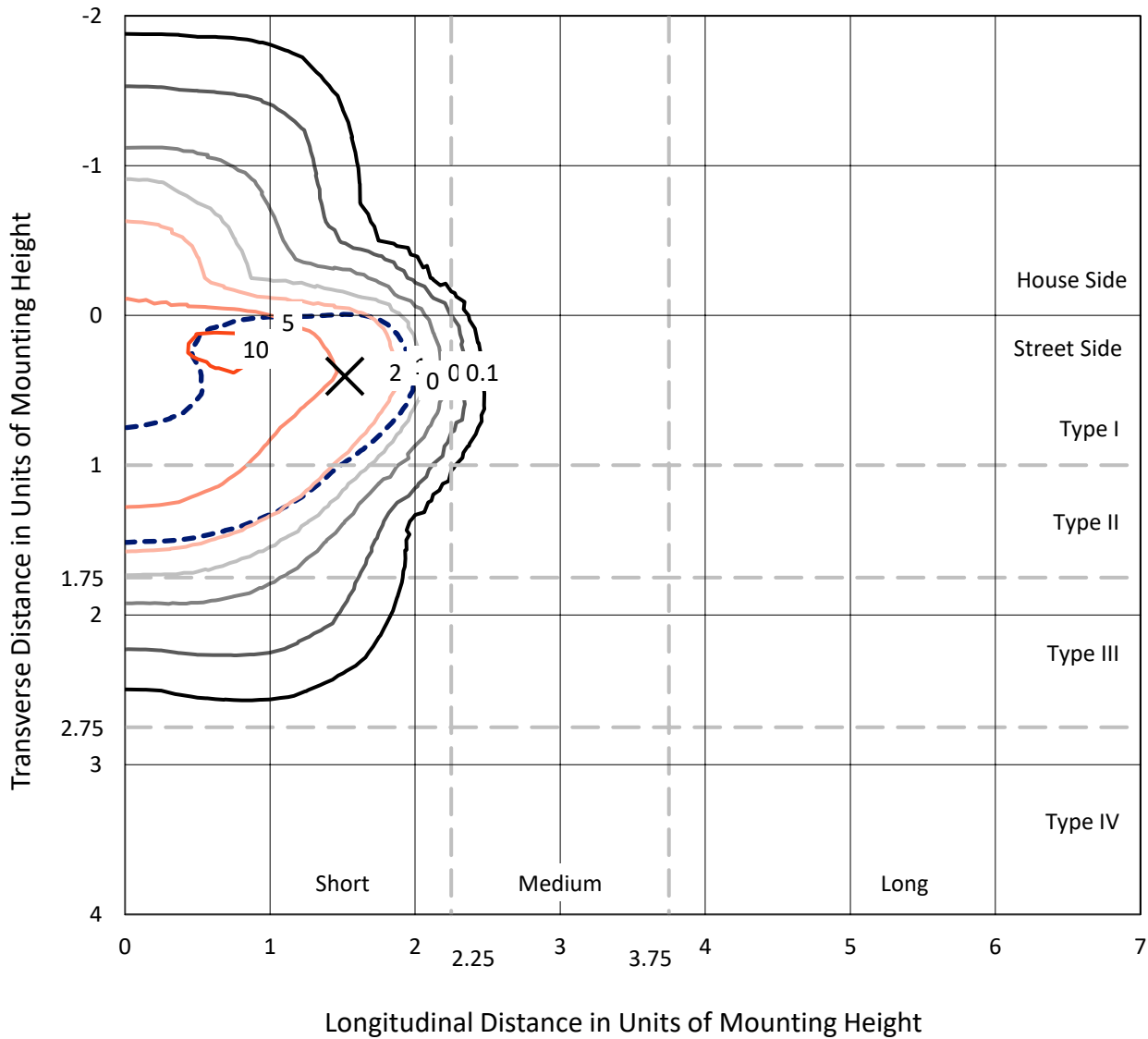
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637773
 CATALOG NUMBER: GWS-SA4D-740-U-T2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

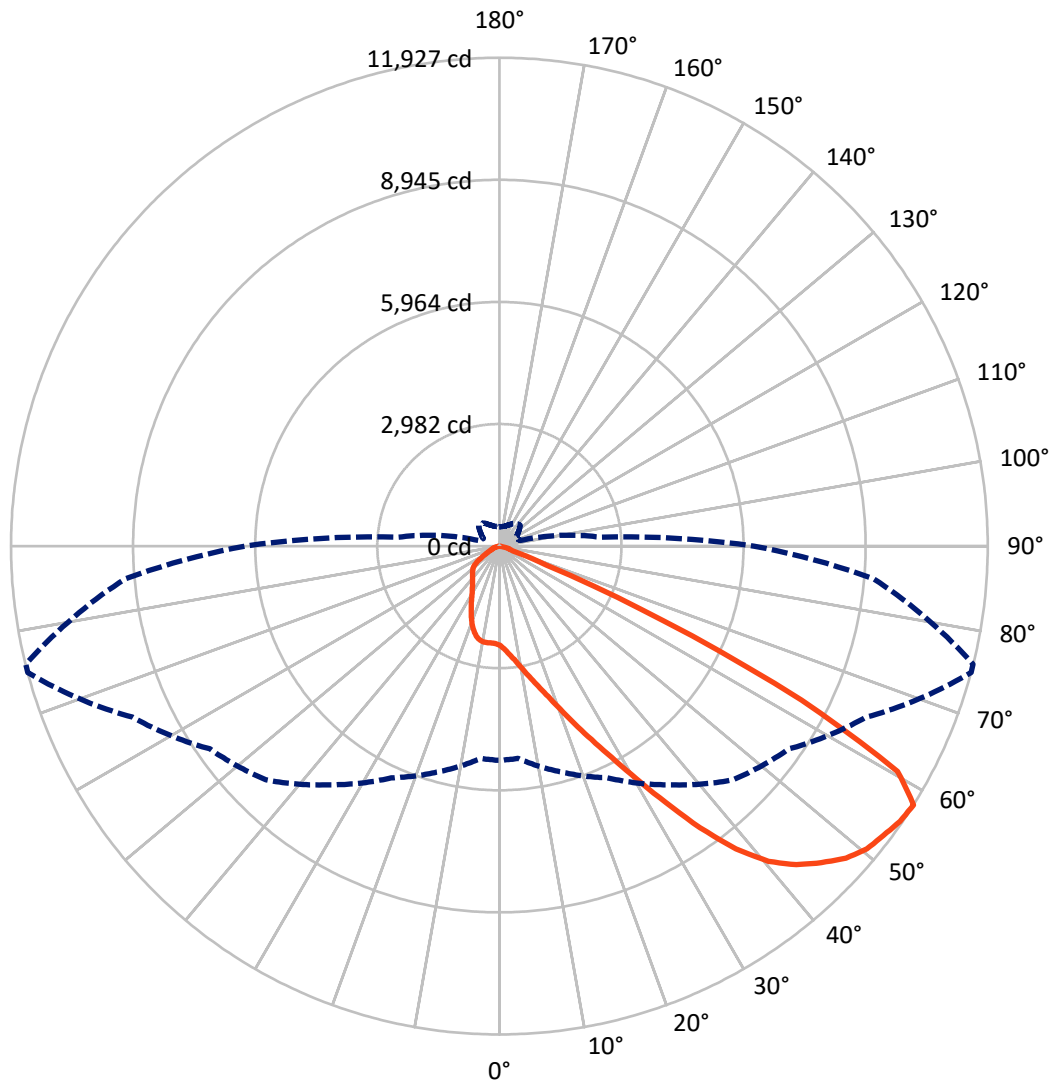
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

REPORT NUMBER: P637773
CATALOG NUMBER: GWS-SA4D-740-U-T2-W-GRSBK

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	2376.1	0.0	2376.1
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	12170.3	0.0	12170.3
	% Fixture	83.7	0.0	83.7
Total	Lumens	14546.4	0.0	14546.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.9	1.7
10°-20°	802.0	5.5
20°-30°	1468.6	10.1
30°-40°	2436.5	16.8
40°-50°	3721.2	25.6
50°-60°	4181.4	28.7
60°-70°	1542.3	10.6
70°-80°	147.4	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°	14546.4	100.0
0°-180°	14546.4	100.0

Coefficient of Utilization



REPORT NUMBER: P637773

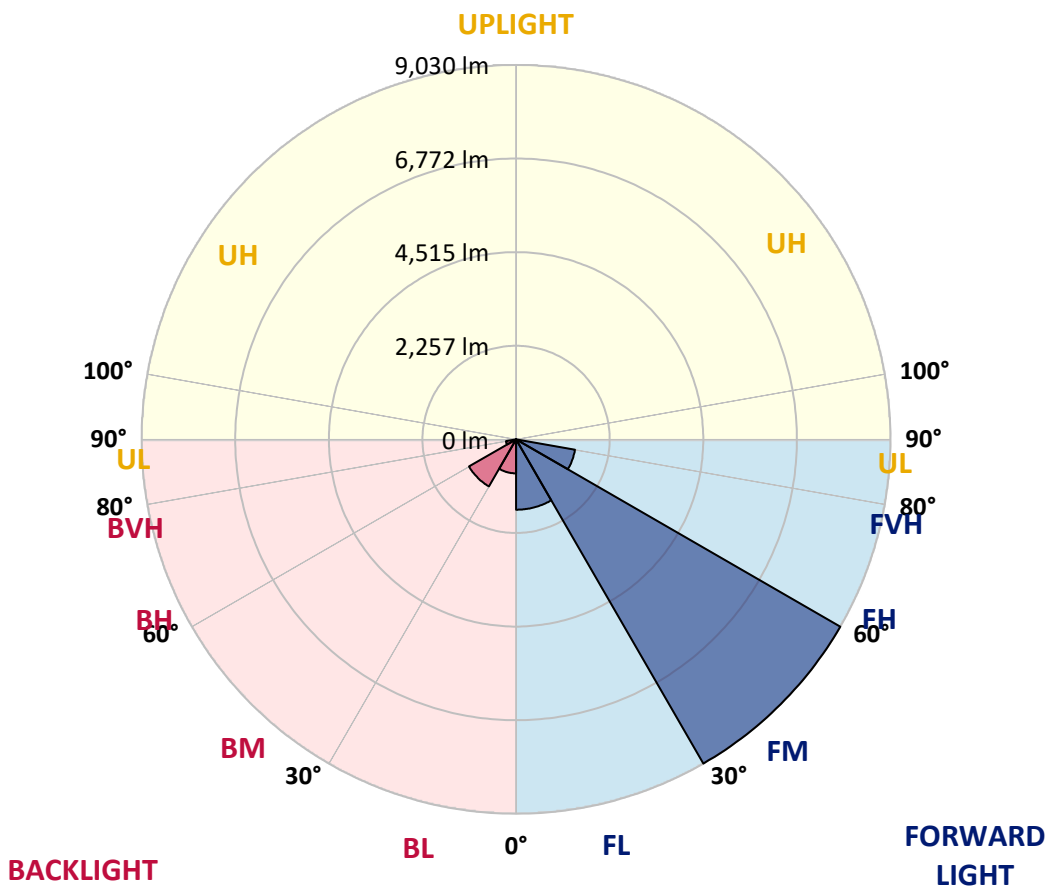
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1697.5	11.7			
FM (30°-60°)	9029.7	62.1			
FH (60°-80°)	1443.0	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	819.9	5.6	B2/1000		
BM (30°-60°)	1309.4	9.0	B2/2500		
BH (60°-80°)	246.8	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





REPORT NUMBER: P637773

CATALOG NUMBER: GWS-SA4D-740-U-T2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1
2.5°	2710.5	2738.6	2729.8	2712.3	2701.8	2664.9	2642.1	2575.4	2528.0	2522.7	2478.8
5°	3052.9	3047.6	3040.6	3019.5	3001.9	2944.0	2875.6	2763.2	2663.1	2650.8	2557.8
7.5°	3240.7	3244.2	3247.7	3244.2	3231.9	3188.0	3112.5	2980.9	2828.2	2817.6	2670.2
10°	3317.9	3325.0	3342.5	3375.9	3405.7	3402.2	3358.3	3223.1	3035.3	3017.7	2819.4
12.5°	3354.8	3363.6	3391.7	3454.9	3535.6	3598.8	3605.9	3484.7	3277.6	3249.5	2996.7
15°	3405.7	3414.5	3449.6	3532.1	3649.7	3774.4	3855.1	3777.9	3546.2	3516.3	3191.5
17.5°	3428.5	3440.8	3491.7	3600.6	3753.3	3944.7	4127.2	4120.2	3863.9	3841.1	3418.0
20°	3472.4	3481.2	3526.9	3644.5	3828.8	4104.4	4411.6	4522.2	4251.9	4218.5	3691.9
22.5°	3611.1	3614.6	3635.7	3709.4	3881.5	4220.3	4701.3	4991.0	4710.1	4666.2	3999.1
25°	3837.6	3835.8	3844.6	3856.9	3983.3	4337.9	4980.4	5519.4	5235.0	5187.6	4346.7
27.5°	4125.5	4125.5	4146.6	4111.4	4162.4	4483.6	5256.0	6126.8	5845.9	5779.2	4727.6
30°	4464.3	4462.5	4511.7	4455.5	4471.3	4713.6	5552.7	6788.6	6583.2	6500.7	5166.5
32.5°	4924.3	4913.7	4969.9	4892.7	4840.0	5061.2	5914.4	7480.3	7466.3	7339.9	5717.7
35°	5505.3	5487.8	5505.3	5429.8	5335.0	5547.5	6388.4	8170.2	8445.8	8312.4	6374.3
37.5°	6082.9	6139.1	6158.4	6028.5	5951.2	6163.7	6958.9	8788.2	9381.5	9242.8	7057.2
40°	6764.0	6746.5	6813.2	6667.5	6618.3	6853.6	7517.2	9248.1	10122.4	9990.7	7664.6
42.5°	7266.1	7297.7	7380.2	7299.5	7260.9	7482.1	7985.9	9516.7	10636.7	10506.8	8098.2
45°	7868.3	7891.1	7922.7	7856.0	7815.6	8033.3	8324.7	9634.3	11028.2	10887.8	8389.7
47.5°	8519.6	8537.1	8537.1	8400.2	8270.3	8359.8	8551.2	9701.0	11388.1	11252.9	8605.6
50°	8986.5	8995.3	9072.6	8976.0	8693.4	8554.7	8654.7	9766.0	11626.8	11500.5	8675.8
52.5°	8572.2	8561.7	8816.3	9016.4	9091.9	8816.3	8833.8	9860.8	11742.7	11633.9	8732.0
55°	7218.7	7201.2	7559.3	8045.6	8710.9	9063.8	9049.7	9917.0	11870.9	11804.2	8935.6
57.5°	5233.2	5203.4	5701.9	6242.7	7115.1	8071.9	8633.7	9885.4	11927.0	11921.8	9172.6
60°	3145.9	3121.3	3591.8	4160.6	4834.7	5796.7	6728.9	8854.9	11175.7	11186.2	8556.4
62.5°	1936.3	1959.2	2384.0	2673.7	2924.7	3214.4	3753.3	5956.5	8279.1	8347.5	6012.7
65°	1302.6	1320.2	1713.4	2078.5	2078.5	1699.3	1458.8	2847.5	4416.9	4301.0	2844.0
67.5°	874.3	893.6	1204.3	1630.9	1692.3	1185.0	591.6	849.7	1230.6	1193.8	704.0
70°	514.4	535.4	802.3	1118.3	1232.4	825.1	395.0	359.9	349.3	338.8	273.9
72.5°	230.0	238.8	409.0	568.8	519.6	347.6	279.1	287.9	272.1	266.8	223.0
75°	70.2	73.7	105.3	122.9	124.6	124.6	168.5	226.5	214.2	215.9	172.0
77.5°	17.6	17.6	28.1	26.3	14.0	12.3	31.6	50.9	52.7	47.4	35.1
80°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
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°	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1
2.5°	2459.5	2413.8	2384.0	2341.9	2312.0	2280.4	2252.3	2229.5	2217.2	2213.7	2215.5
5°	2515.7	2443.7	2373.5	2292.7	2236.5	2183.9	2141.7	2108.4	2092.6	2087.3	2087.3
7.5°	2601.7	2501.6	2377.0	2250.6	2155.8	2073.3	2024.1	1987.3	1973.2	1969.7	1959.2
10°	2714.0	2577.1	2371.7	2175.1	2041.7	1955.7	1920.5	1910.0	1915.3	1917.0	1915.3
12.5°	2849.2	2656.1	2338.4	2064.5	1920.5	1867.9	1871.4	1899.5	1931.1	1946.9	1950.4
15°	2993.2	2728.1	2262.9	1932.8	1817.0	1815.2	1866.1	1931.1	1992.5	2018.9	2025.9
17.5°	3154.7	2786.0	2147.0	1792.4	1727.4	1778.3	1869.6	1969.7	2052.2	2096.1	2104.9
20°	3332.0	2833.4	1999.5	1660.7	1648.4	1739.7	1866.1	1989.0	2090.8	2140.0	2148.8
22.5°	3516.3	2866.8	1829.3	1539.6	1576.5	1695.8	1832.8	1952.1	2048.7	2104.9	2111.9
25°	3727.0	2870.3	1655.5	1437.8	1509.8	1636.2	1752.0	1850.3	1931.1	1980.2	1985.5
27.5°	3911.3	2828.2	1501.0	1355.3	1448.3	1562.4	1639.7	1694.1	1750.3	1778.3	1780.1
30°	4123.7	2754.4	1355.3	1288.6	1385.1	1471.1	1509.8	1522.0	1527.3	1532.6	1525.6
32.5°	4376.5	2664.9	1246.4	1223.6	1313.1	1371.1	1381.6	1357.0	1327.2	1285.0	1274.5
35°	4687.3	2584.1	1156.9	1160.4	1234.1	1269.2	1260.5	1207.8	1149.9	1099.0	1090.2
37.5°	5024.3	2515.7	1088.4	1099.0	1148.1	1172.7	1146.4	1088.4	1062.1	1018.2	1020.0
40°	5322.8	2459.5	1027.0	1037.5	1060.3	1083.2	1041.0	1002.4	1051.6	1048.0	1051.6
42.5°	5535.2	2412.1	974.3	969.1	984.9	1000.6	969.1	949.7	1032.2	1009.4	1021.7
45°	5659.8	2368.2	930.4	898.8	923.4	951.5	930.4	905.9	933.9	828.6	819.8
47.5°	5744.1	2343.6	891.8	830.4	874.3	923.4	879.5	819.8	779.5	688.2	681.1
50°	5752.9	2331.3	846.2	760.1	816.3	869.0	818.1	735.6	677.6	637.3	632.0
52.5°	5798.5	2355.9	783.0	670.6	732.1	816.3	781.2	698.7	619.7	584.6	577.6
55°	6002.1	2459.5	677.6	547.7	637.3	775.9	751.4	623.2	547.7	526.7	521.4
57.5°	6212.8	2480.6	533.7	433.6	554.7	718.0	686.4	574.1	500.3	475.7	470.5
60°	5680.9	2043.4	400.3	358.1	489.8	663.6	635.5	544.2	458.2	428.3	423.1
62.5°	3732.2	1104.2	317.8	303.7	412.5	561.8	579.3	491.5	409.0	377.4	375.7
65°	1720.4	512.6	244.0	240.5	323.0	447.7	498.6	430.1	345.8	317.8	317.8
67.5°	468.7	254.6	191.4	177.3	219.4	300.2	363.4	321.3	245.8	212.4	210.7
70°	233.5	205.4	172.0	152.7	158.0	186.1	214.2	179.1	124.6	101.8	100.1
72.5°	191.4	168.5	145.7	129.9	119.4	114.1	110.6	89.5	57.9	43.9	42.1
75°	142.2	121.1	103.6	84.3	72.0	66.7	59.7	43.9	24.6	14.0	12.3
77.5°	31.6	29.8	28.1	21.1	19.3	15.8	12.3	8.8	3.5	0.0	0.0
80°	1.8	1.8	1.8	1.8	1.8	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)