

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: P637284

Luminaire Tested: GWS-SA4C-740-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-740-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15655.1 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

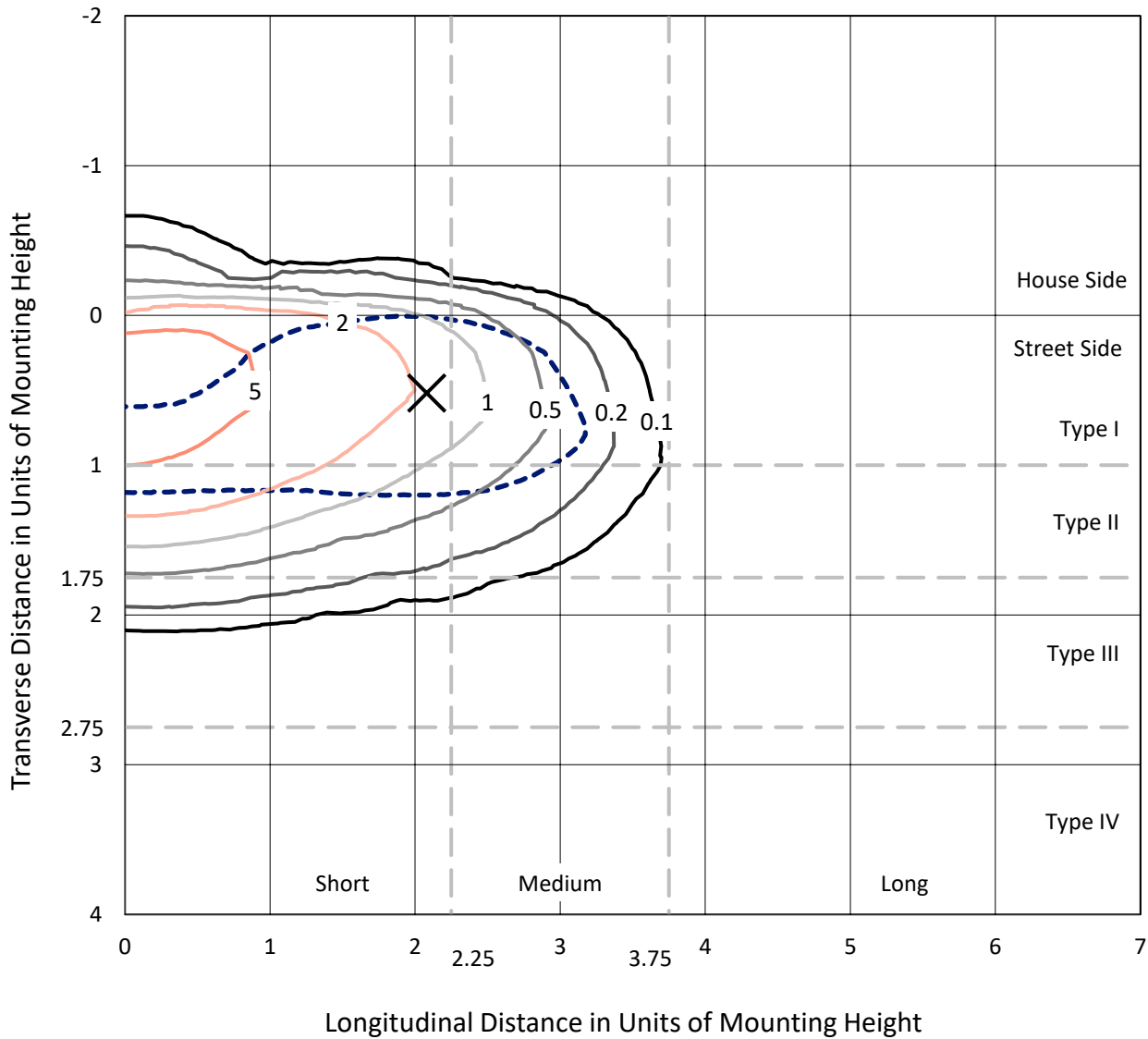
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637284
 CATALOG NUMBER: GWS-SA4C-740-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

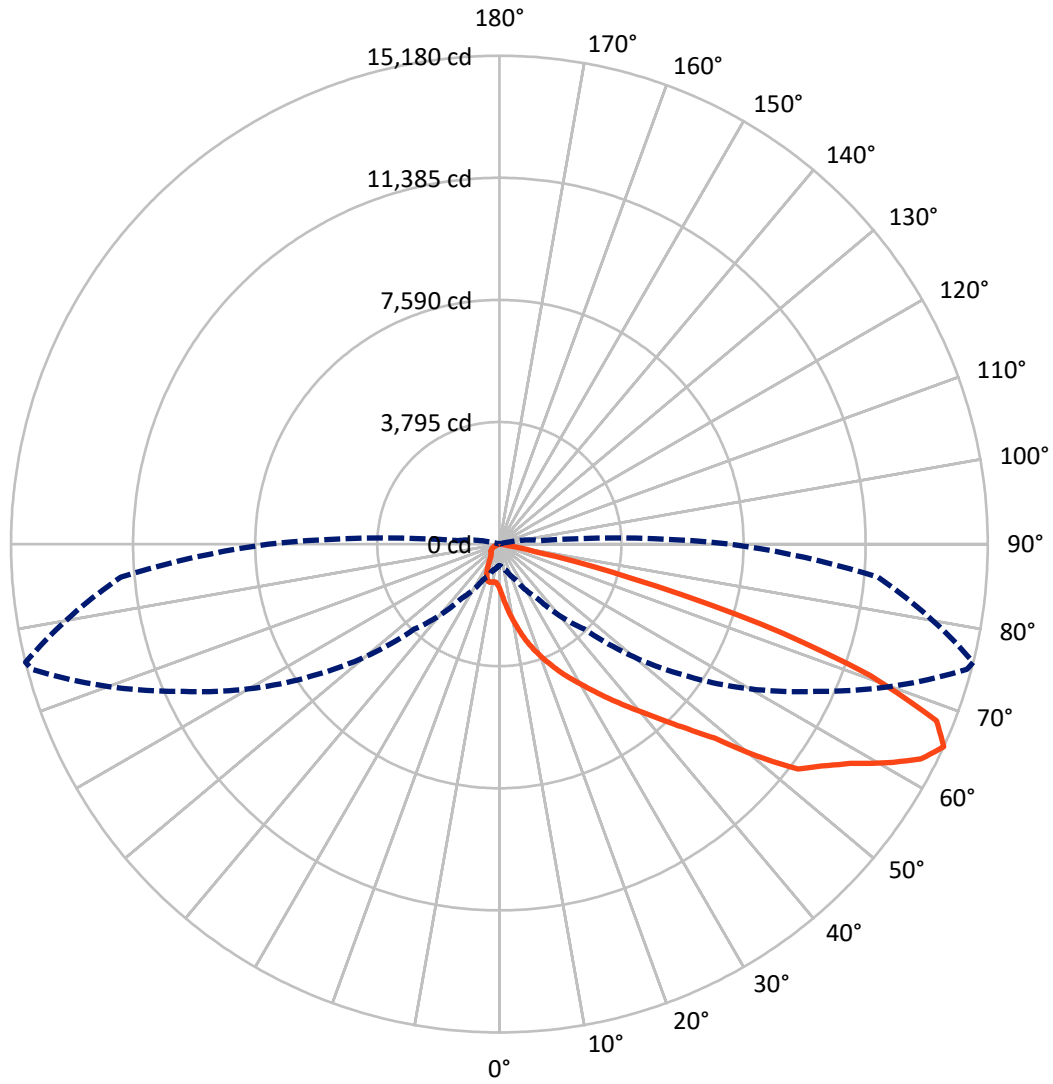
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

REPORT NUMBER: P637284
CATALOG NUMBER: GWS-SA4C-740-U-T2R-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P637284
 CATALOG NUMBER: GWS-SA4C-740-U-T2R-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	865.6	0.0	865.6
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	14789.5	0.0	14789.5
	% Fixture	94.5	0.0	94.5
Total	Lumens	15655.1	0.0	15655.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	1.1
10°-20°	639.8	4.1
20°-30°	1305.3	8.3
30°-40°	2321.6	14.8
40°-50°	3431.8	21.9
50°-60°	3929.2	25.1
60°-70°	2997.8	19.1
70°-80°	839.7	5.4
80°-90°	21.1	0.1
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°	15655.1	100.0
0°-180°	15655.1	100.0

Coefficient of Utilization



REPORT NUMBER: P637284

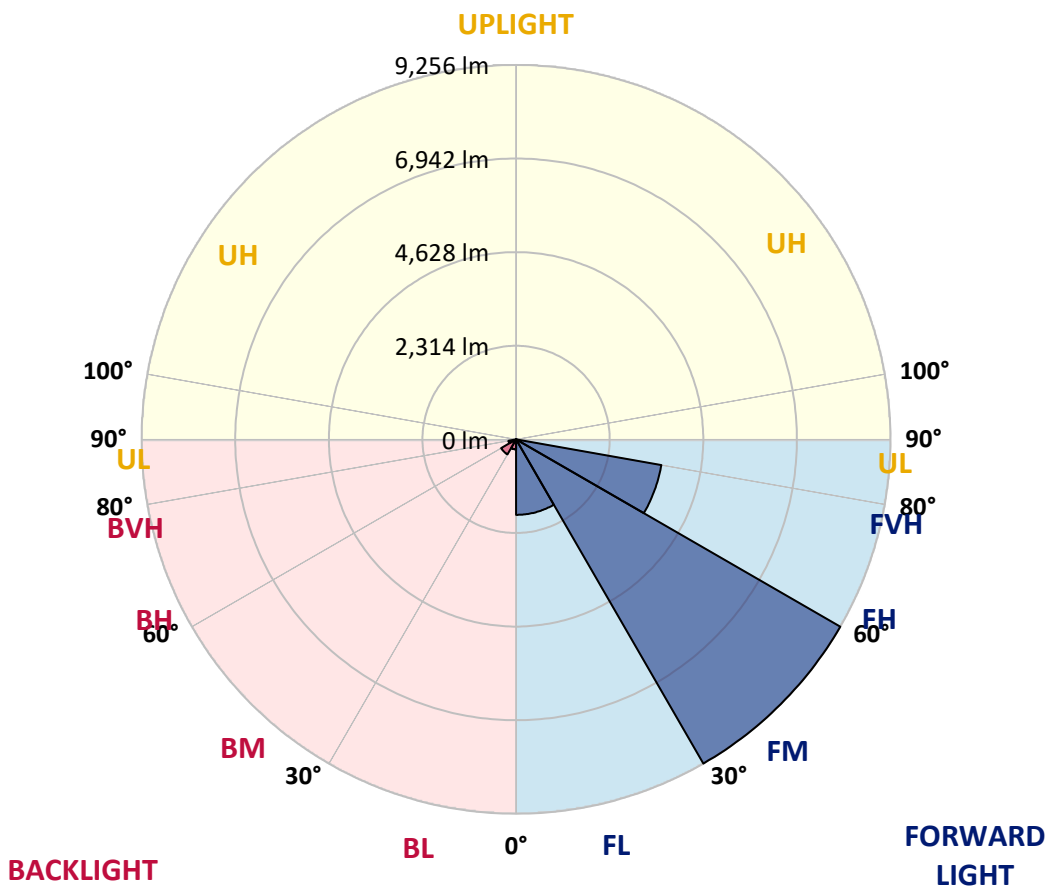
CATALOG NUMBER: GWS-SA4C-740-U-T2R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1866.8	11.9			
FM (30°-60°)	9255.5	59.1			
FH (60°-80°)	3647.3	23.3			G2/5000
FVH (80°-90°)	19.9	0.1			G1/100
BL (0°-30°)	247.0	1.6	B1/500		
BM (30°-60°)	427.1	2.7	B1/1000		
BH (60°-80°)	190.3	1.2	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			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 II Short





REPORT NUMBER: P637284

CATALOG NUMBER: GWS-SA4C-740-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0
2.5°	2136.1	2168.1	2143.1	2101.3	2020.6	1942.7	1842.5	1704.7	1594.8	1580.9	1477.9
5°	2884.8	2882.0	2827.8	2773.5	2688.6	2555.0	2353.2	2097.2	1850.8	1830.0	1599.0
7.5°	3330.1	3334.3	3303.7	3261.9	3178.4	3040.7	2830.5	2521.6	2161.2	2119.4	1764.6
10°	3704.5	3703.1	3680.8	3661.3	3586.2	3494.3	3268.9	2929.3	2495.2	2429.8	1949.7
12.5°	3985.6	3995.3	4006.5	4025.9	3993.9	3903.5	3690.6	3320.4	2833.3	2761.0	2161.2
15°	4208.2	4211.0	4252.8	4327.9	4354.4	4307.0	4113.6	3698.9	3167.3	3104.7	2404.7
17.5°	4275.0	4280.6	4351.6	4489.3	4628.5	4654.9	4508.8	4080.2	3495.7	3428.9	2641.3
20°	4415.6	4428.1	4481.0	4602.1	4777.4	4919.4	4862.3	4465.7	3824.2	3736.5	2883.4
22.5°	4858.1	4865.1	4847.0	4862.3	4952.8	5117.0	5151.8	4838.6	4160.9	4067.7	3145.0
25°	5619.3	5622.1	5495.5	5375.8	5307.6	5338.2	5414.8	5182.4	4494.9	4403.1	3388.6
27.5°	6409.8	6419.5	6267.8	6064.7	5821.1	5682.0	5659.7	5496.9	4831.7	4730.1	3629.3
30°	7154.3	7154.3	6994.3	6746.5	6420.9	6149.5	5989.5	5814.2	5192.1	5080.8	3875.6
32.5°	7823.7	7818.1	7613.5	7344.9	7023.5	6725.7	6388.9	6145.4	5592.9	5469.0	4159.5
35°	8376.1	8362.2	8129.8	7872.4	7528.6	7307.4	6931.6	6501.6	6027.1	5903.2	4451.8
37.5°	8793.6	8778.3	8565.4	8292.6	7973.9	7830.6	7516.1	6928.8	6484.9	6372.2	4776.0
40°	9020.4	8989.8	8842.3	8639.1	8371.9	8246.7	8115.9	7459.1	7023.5	6882.9	5158.7
42.5°	9087.2	9051.1	8953.6	8859.0	8697.6	8598.8	8739.3	8057.4	7614.9	7493.8	5595.7
45°	8889.6	8868.8	8860.4	8928.6	8957.8	8985.7	9332.2	8719.9	8267.6	8175.7	6145.4
47.5°	8413.7	8408.1	8481.9	8765.8	9074.7	9368.3	9976.5	9536.7	9113.7	9014.9	6913.5
50°	7534.2	7591.3	7797.2	8295.4	8913.3	9585.4	10579.0	10669.5	10483.0	10338.3	7915.5
52.5°	6159.3	6269.2	6731.2	7488.3	8376.1	9524.2	10857.4	11576.8	11767.5	11617.2	8633.6
55°	4833.1	4936.1	5348.0	6308.2	7492.4	9058.0	10869.9	11889.9	12306.0	12166.9	9119.2
57.5°	3600.1	3694.7	4069.1	4987.5	6290.1	8140.9	10572.1	12063.9	12944.8	12855.7	9886.0
60°	2353.2	2446.5	2784.6	3587.6	4879.0	6805.0	9838.7	12027.7	13814.6	13806.2	10828.1
62.5°	1305.3	1379.1	1624.0	2250.2	3405.3	5270.0	8686.5	11664.5	14656.5	14709.4	11604.7
65°	668.0	715.3	864.2	1237.1	2061.0	3736.5	7171.0	10832.3	15046.1	15179.7	11809.2
67.5°	437.0	452.3	488.5	642.9	1103.5	2350.4	5396.7	9497.8	14497.8	14653.7	11123.2
70°	354.9	367.4	388.3	428.6	569.2	1248.3	3544.4	7585.7	12114.0	12219.8	8857.6
72.5°	260.2	276.9	317.3	343.7	410.5	684.7	1843.9	4979.2	8319.1	8505.5	5566.5
75°	192.0	201.8	235.2	271.4	335.4	432.8	705.5	2617.6	4295.9	4187.4	2337.9
77.5°	115.5	122.5	150.3	174.0	239.4	270.0	246.3	967.2	1306.7	1228.8	565.0
80°	57.1	64.0	98.8	130.8	153.1	108.5	103.0	270.0	290.8	290.8	141.9
82.5°	19.5	25.0	52.9	86.3	75.1	41.7	48.7	69.6	77.9	82.1	41.7
85°	0.0	0.0	12.5	25.0	11.1	5.6	12.5	15.3	19.5	20.9	13.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637284

CATALOG NUMBER: GWS-SA4C-740-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0
2.5°	1422.2	1356.8	1258.0	1169.0	1100.8	1036.8	988.0	949.1	942.1	919.9	922.6
5°	1486.2	1368.0	1185.7	1045.1	946.3	879.5	823.8	782.1	764.0	745.9	732.0
7.5°	1585.0	1413.9	1157.8	986.7	871.2	768.2	681.9	612.3	578.9	558.0	544.1
10°	1706.1	1477.9	1159.2	951.9	780.7	623.4	505.2	428.6	392.4	381.3	379.9
12.5°	1850.8	1558.6	1170.3	894.8	649.9	463.4	374.3	339.6	328.4	318.7	318.7
15°	2003.9	1649.1	1170.3	790.4	495.4	361.8	324.2	302.0	288.1	282.5	279.7
17.5°	2165.4	1734.0	1142.5	647.1	379.9	318.7	288.1	267.2	256.1	247.7	244.9
20°	2337.9	1814.7	1072.9	495.4	325.6	285.3	256.1	235.2	224.0	215.7	215.7
22.5°	2513.3	1889.8	960.2	381.3	288.1	253.3	225.4	206.0	194.8	186.5	186.5
25°	2676.1	1939.9	815.5	314.5	260.2	225.4	200.4	180.9	168.4	162.8	160.0
27.5°	2827.8	1971.9	655.5	276.9	233.8	201.8	175.3	157.3	147.5	143.3	140.6
30°	2985.0	1980.3	501.0	251.9	211.5	178.1	153.1	139.2	130.8	125.2	125.2
32.5°	3138.1	1970.5	382.7	231.0	192.0	157.3	136.4	123.9	116.9	112.7	111.3
35°	3293.9	1926.0	310.3	212.9	172.6	137.8	121.1	111.3	107.2	101.6	101.6
37.5°	3463.7	1866.2	270.0	194.8	153.1	123.9	108.5	101.6	96.0	91.8	90.5
40°	3675.3	1796.6	247.7	179.5	135.0	111.3	97.4	90.5	86.3	82.1	80.7
42.5°	3925.7	1728.4	236.6	162.8	121.1	98.8	87.7	79.3	75.1	69.6	68.2
45°	4280.6	1713.1	224.0	144.7	108.5	89.1	76.5	68.2	62.6	58.4	57.1
47.5°	4851.2	1756.2	203.2	125.2	96.0	77.9	65.4	58.4	51.5	47.3	44.5
50°	5417.6	1745.1	182.3	108.5	84.9	66.8	55.7	48.7	41.7	37.6	36.2
52.5°	5726.5	1692.2	162.8	96.0	73.8	57.1	47.3	39.0	34.8	30.6	29.2
55°	6006.2	1671.3	143.3	83.5	62.6	50.1	39.0	32.0	29.2	25.0	23.7
57.5°	6554.5	1720.0	126.6	72.4	54.3	43.1	33.4	26.4	23.7	19.5	18.1
60°	7127.8	1725.6	108.5	62.6	47.3	36.2	26.4	20.9	18.1	13.9	12.5
62.5°	7427.0	1585.0	89.1	52.9	39.0	30.6	22.3	16.7	13.9	8.3	8.3
65°	7176.6	1281.7	75.1	43.1	30.6	23.7	16.7	12.5	8.3	4.2	1.4
67.5°	6351.3	911.5	62.6	34.8	22.3	16.7	12.5	8.3	1.4	0.0	0.0
70°	4650.8	520.5	48.7	25.0	16.7	11.1	8.3	4.2	0.0	0.0	0.0
72.5°	2858.4	278.3	36.2	16.7	12.5	8.3	7.0	2.8	0.0	0.0	0.0
75°	1084.1	133.6	22.3	11.1	9.7	7.0	4.2	1.4	0.0	0.0	0.0
77.5°	293.6	65.4	12.5	8.3	7.0	4.2	2.8	0.0	0.0	0.0	0.0
80°	76.5	30.6	8.3	5.6	4.2	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	26.4	13.9	4.2	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0
85°	11.1	5.6	2.8	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	1.4	1.4	1.4	1.4	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)