

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: P640254

Luminaire Tested: GWS-SA5D-740-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640254  
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-SA5D-740-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

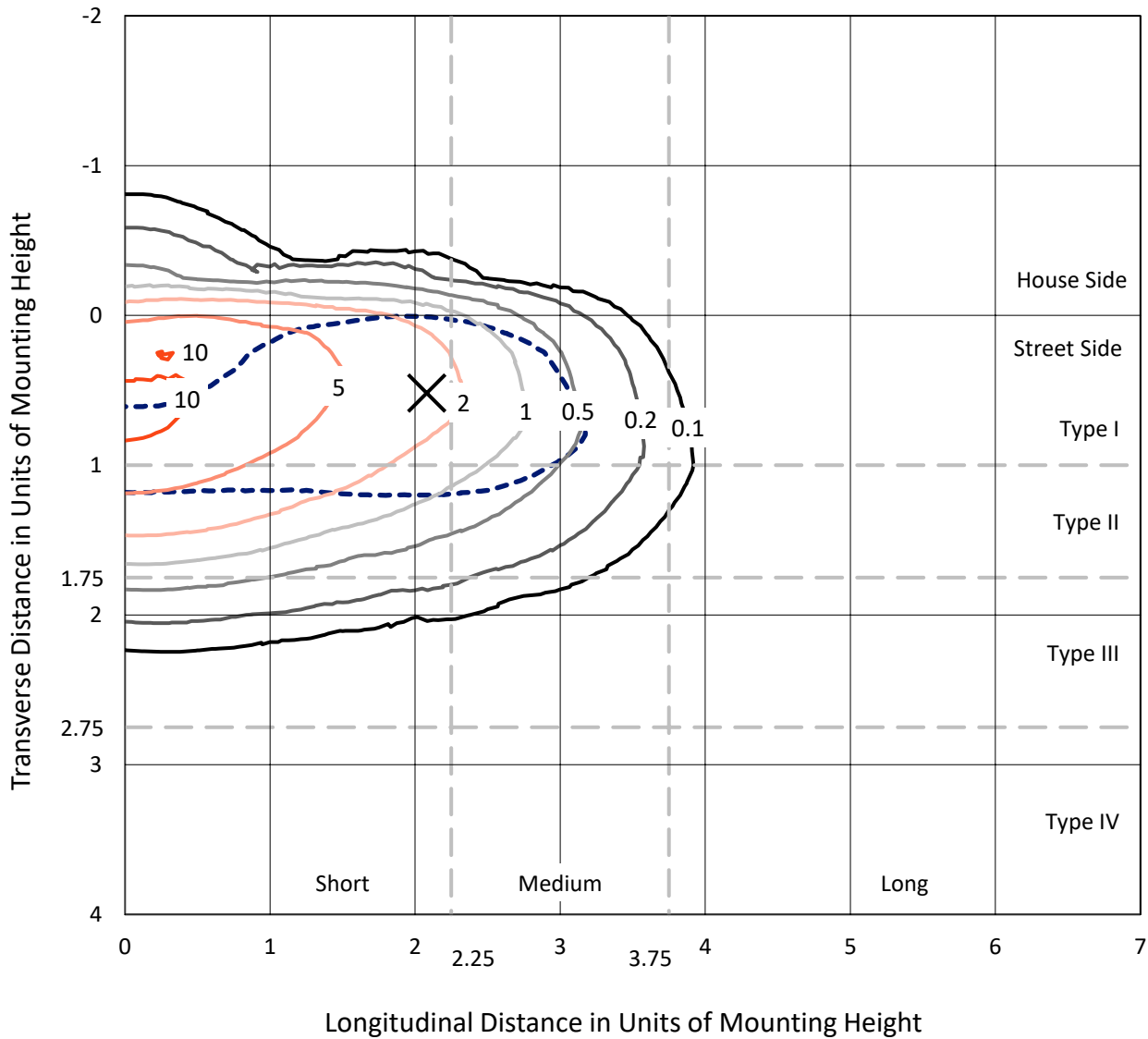
Lumens per Lamp: N/A  
Luminaire Lumens: 24227.4 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

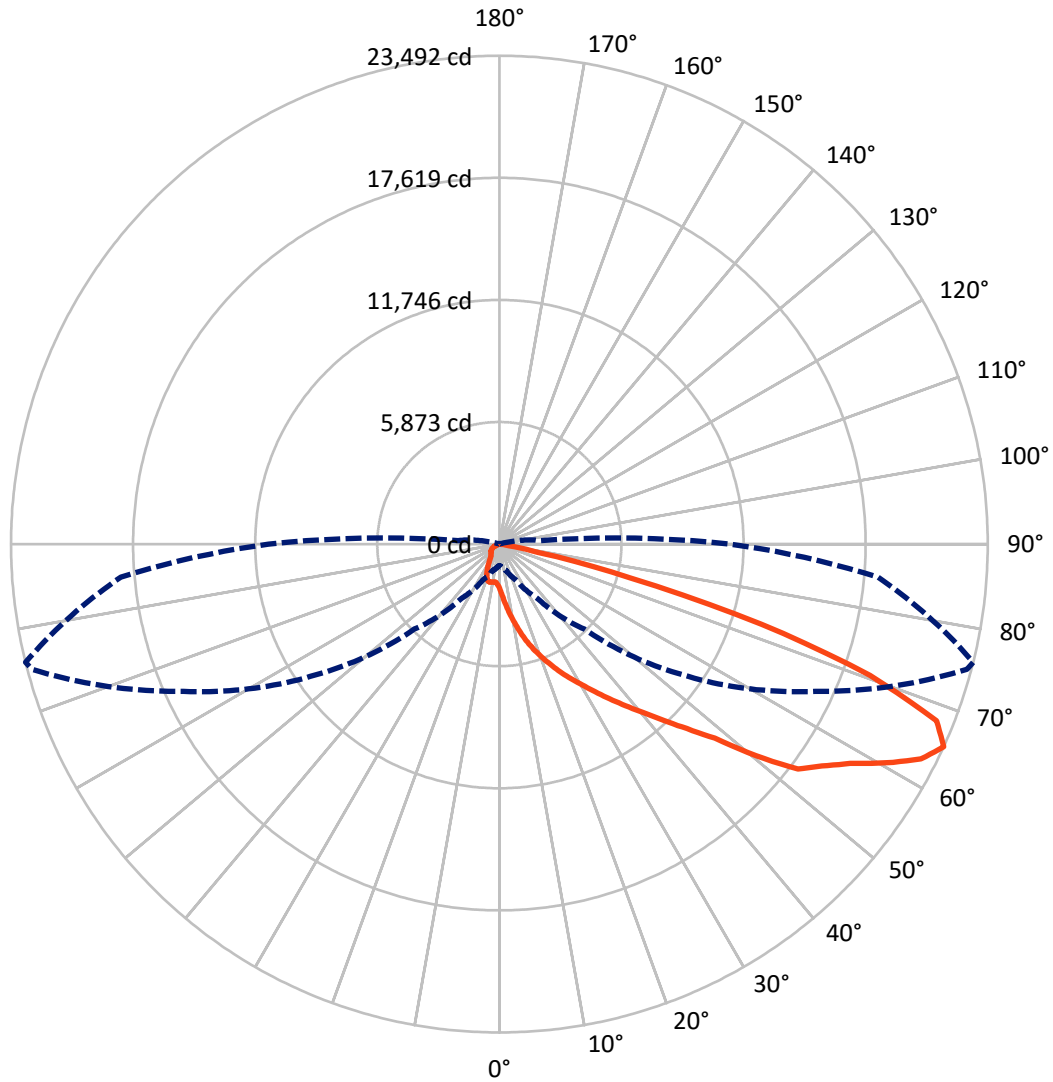
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1339.6	0.0	1339.6
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	22887.8	0.0	22887.8
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	24227.4	0.0	24227.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.9	1.1
10°-20°	990.2	4.1
20°-30°	2020.1	8.3
30°-40°	3592.8	14.8
40°-50°	5311.0	21.9
50°-60°	6080.7	25.1
60°-70°	4639.3	19.1
70°-80°	1299.6	5.4
80°-90°	32.7	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°	24227.4	100.0
0°-180°	24227.4	100.0

**Coefficient of Utilization**



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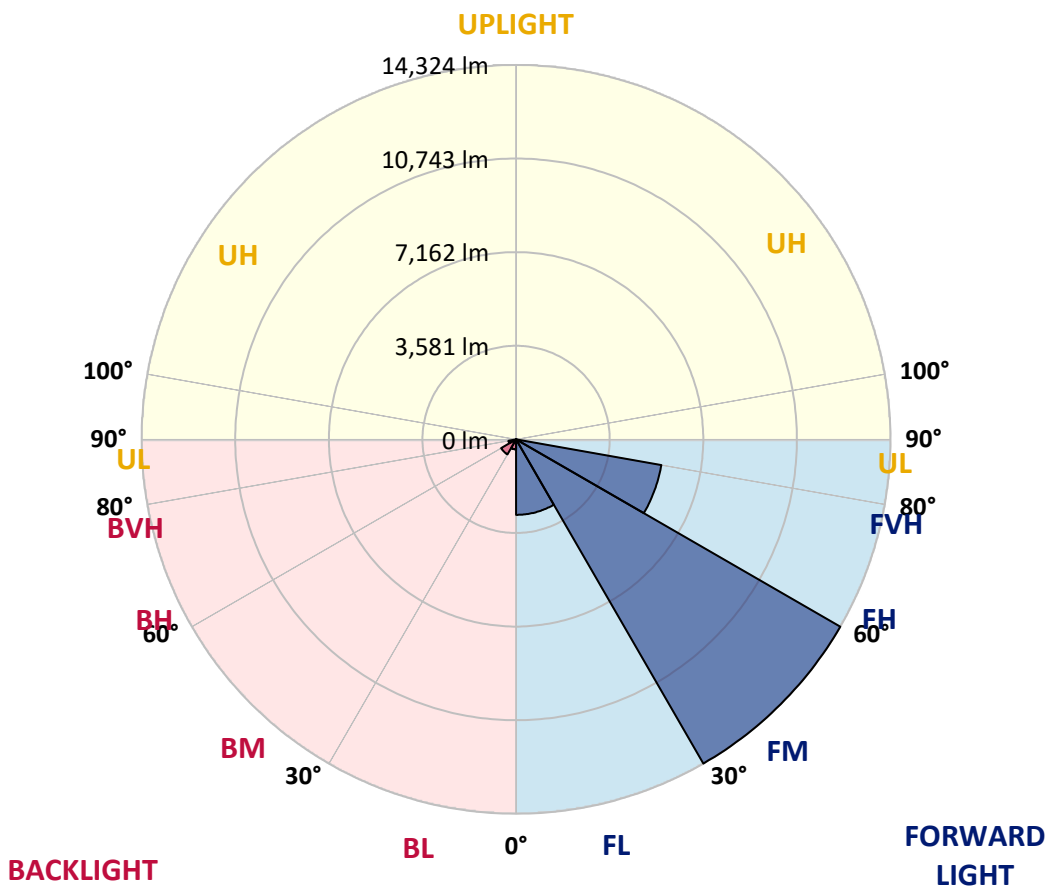
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2888.9	11.9			
FM (30°-60°)	14323.6	59.1			
FH (60°-80°)	5644.4	23.3			G3/7500
FVH (80°-90°)	30.8	0.1			G1/100
BL (0°-30°)	382.3	1.6	B1/500		
BM (30°-60°)	661.0	2.7	B1/1000		
BH (60°-80°)	294.5	1.2	B1/500		G1/500
BVH (80°-90°)	1.9	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0
2.5°	3305.8	3355.3	3316.6	3252.0	3127.1	3006.5	2851.4	2638.2	2468.1	2446.5	2287.1
5°	4464.5	4460.2	4376.2	4292.2	4160.8	3954.1	3641.8	3245.5	2864.3	2832.0	2474.5
7.5°	5153.6	5160.1	5112.7	5048.1	4918.9	4705.7	4380.5	3902.4	3344.6	3280.0	2730.8
10°	5732.9	5730.8	5696.3	5666.2	5549.9	5407.7	5058.9	4533.4	3861.4	3760.2	3017.2
12.5°	6168.0	6183.1	6200.3	6230.4	6180.9	6040.9	5711.4	5138.5	4384.8	4272.8	3344.6
15°	6512.6	6516.9	6581.5	6697.8	6738.7	6665.5	6366.1	5724.3	4901.6	4804.7	3721.5
17.5°	6615.9	6624.5	6734.4	6947.6	7163.0	7203.9	6977.7	6314.4	5409.9	5306.5	4087.6
20°	6833.4	6852.8	6934.7	7122.0	7393.4	7613.1	7524.8	6911.0	5918.2	5782.5	4462.3
22.5°	7518.3	7529.1	7501.1	7524.8	7664.7	7918.9	7972.7	7488.1	6439.3	6295.0	4867.2
25°	8696.3	8700.6	8504.7	8319.4	8213.9	8261.3	8379.7	8020.1	6956.2	6814.1	5244.1
27.5°	9919.6	9934.7	9699.9	9385.5	9008.6	8793.2	8758.8	8506.8	7477.4	7320.2	5616.6
30°	11071.8	11071.8	10824.1	10440.8	9936.8	9516.9	9269.2	8997.8	8035.2	7862.9	5997.8
32.5°	12107.7	12099.1	11782.5	11366.8	10869.3	10408.5	9887.3	9510.4	8655.4	8463.7	6437.2
35°	12962.7	12941.1	12581.5	12183.0	11651.1	11308.7	10727.2	10061.7	9327.3	9135.7	6889.4
37.5°	13608.7	13585.1	13255.6	12833.4	12340.3	12118.4	11631.7	10722.9	10035.9	9861.4	7391.2
40°	13959.8	13912.4	13684.1	13369.7	12956.2	12762.4	12559.9	11543.4	10869.3	10651.8	7983.5
42.5°	14063.2	14007.2	13856.4	13710.0	13460.1	13307.2	13524.8	12469.5	11784.6	11597.3	8659.7
45°	13757.3	13725.0	13712.1	13817.6	13862.9	13905.9	14442.2	13494.6	12794.7	12652.5	9510.4
47.5°	13020.8	13012.2	13126.3	13565.7	14043.8	14498.2	15439.3	14758.8	14104.1	13951.2	10699.2
50°	11659.7	11748.0	12066.8	12837.7	13794.0	14834.2	16371.8	16511.8	16223.2	15999.3	12249.8
52.5°	9531.9	9702.1	10417.1	11588.6	12962.7	14739.4	16802.6	17916.0	18211.0	17978.4	13361.1
55°	7479.5	7638.9	8276.4	9762.4	11595.1	14017.9	16821.9	18400.6	19044.5	18829.1	14112.7
57.5°	5571.4	5717.9	6297.2	7718.6	9734.4	12598.7	16361.1	18669.8	20033.0	19895.2	15299.3
60°	3641.8	3786.1	4309.4	5552.0	7550.6	10531.2	15226.1	18613.8	21379.0	21366.1	16757.3
62.5°	2020.1	2134.2	2513.3	3482.4	5269.9	8155.8	13442.9	18051.7	22682.0	22763.8	17959.1
65°	1033.7	1107.0	1337.4	1914.6	3189.5	5782.5	11097.6	16763.8	23285.0	23491.7	18275.6
67.5°	676.2	699.9	755.9	995.0	1707.8	3637.5	8351.8	14698.5	22436.4	22677.7	17213.9
70°	549.2	568.6	600.9	663.3	880.8	1931.8	5485.3	11739.4	18747.3	18911.0	13707.8
72.5°	402.7	428.6	491.0	531.9	635.3	1059.6	2853.6	7705.7	12874.4	13162.9	8614.5
75°	297.2	312.3	364.0	420.0	519.0	669.8	1091.9	4051.0	6648.2	6480.3	3618.1
77.5°	178.8	189.5	232.6	269.2	370.4	417.8	381.2	1496.8	2022.3	1901.6	874.4
80°	88.3	99.1	152.9	202.4	236.9	168.0	159.4	417.8	450.1	450.1	219.7
82.5°	30.2	38.8	81.8	133.5	116.3	64.6	75.4	107.7	120.6	127.1	64.6
85°	0.0	0.0	19.4	38.8	17.2	8.6	19.4	23.7	30.2	32.3	21.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.5	8.6	8.6
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°	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0	2145.0
2.5°	2201.0	2099.8	1946.9	1809.0	1703.5	1604.4	1529.1	1468.8	1458.0	1423.5	1427.9
5°	2300.1	2117.0	1834.9	1617.4	1464.5	1361.1	1274.9	1210.3	1182.3	1154.3	1132.8
7.5°	2453.0	2188.1	1791.8	1526.9	1348.2	1188.8	1055.3	947.6	895.9	863.6	842.1
10°	2640.3	2287.1	1794.0	1473.1	1208.2	964.8	781.8	663.3	607.3	590.1	587.9
12.5°	2864.3	2412.1	1811.2	1384.8	1005.7	717.2	579.3	525.5	508.3	493.2	493.2
15°	3101.2	2552.0	1811.2	1223.3	766.7	559.9	501.8	467.3	445.8	437.2	432.9
17.5°	3351.0	2683.4	1768.1	1001.4	587.9	493.2	445.8	413.5	396.3	383.3	379.0
20°	3618.1	2808.3	1660.4	766.7	503.9	441.5	396.3	364.0	346.7	333.8	333.8
22.5°	3889.4	2924.6	1486.0	590.1	445.8	392.0	348.9	318.7	301.5	288.6	288.6
25°	4141.4	3002.2	1262.0	486.7	402.7	348.9	310.1	280.0	260.6	252.0	247.7
27.5°	4376.2	3051.7	1014.4	428.6	361.8	312.3	271.4	243.4	228.3	221.8	217.5
30°	4619.5	3064.6	775.3	389.8	327.4	275.7	236.9	215.4	202.4	193.8	193.8
32.5°	4856.4	3049.5	592.2	357.5	297.2	243.4	211.1	191.7	180.9	174.4	172.3
35°	5097.6	2980.6	480.3	329.5	267.0	213.2	187.4	172.3	165.8	157.2	157.2
37.5°	5360.4	2888.0	417.8	301.5	236.9	191.7	168.0	157.2	148.6	142.1	140.0
40°	5687.7	2780.3	383.3	277.8	208.9	172.3	150.8	140.0	133.5	127.1	124.9
42.5°	6075.4	2674.8	366.1	252.0	187.4	152.9	135.7	122.8	116.3	107.7	105.5
45°	6624.5	2651.1	346.7	224.0	168.0	137.8	118.4	105.5	96.9	90.5	88.3
47.5°	7507.5	2717.9	314.4	193.8	148.6	120.6	101.2	90.5	79.7	73.2	68.9
50°	8384.1	2700.6	282.1	168.0	131.4	103.4	86.1	75.4	64.6	58.1	56.0
52.5°	8862.2	2618.8	252.0	148.6	114.1	88.3	73.2	60.3	53.8	47.4	45.2
55°	9295.0	2586.5	221.8	129.2	96.9	77.5	60.3	49.5	45.2	38.8	36.6
57.5°	10143.6	2661.9	196.0	112.0	84.0	66.8	51.7	40.9	36.6	30.2	28.0
60°	11030.9	2670.5	168.0	96.9	73.2	56.0	40.9	32.3	28.0	21.5	19.4
62.5°	11493.9	2453.0	137.8	81.8	60.3	47.4	34.5	25.8	21.5	12.9	12.9
65°	11106.2	1983.5	116.3	66.8	47.4	36.6	25.8	19.4	12.9	6.5	2.2
67.5°	9829.1	1410.6	96.9	53.8	34.5	25.8	19.4	12.9	2.2	0.0	0.0
70°	7197.4	805.5	75.4	38.8	25.8	17.2	12.9	6.5	0.0	0.0	0.0
72.5°	4423.5	430.7	56.0	25.8	19.4	12.9	10.8	4.3	0.0	0.0	0.0
75°	1677.7	206.7	34.5	17.2	15.1	10.8	6.5	2.2	0.0	0.0	0.0
77.5°	454.4	101.2	19.4	12.9	10.8	6.5	4.3	0.0	0.0	0.0	0.0
80°	118.4	47.4	12.9	8.6	6.5	4.3	0.0	0.0	0.0	0.0	0.0
82.5°	40.9	21.5	6.5	6.5	4.3	2.2	0.0	0.0	0.0	0.0	0.0
85°	17.2	8.6	4.3	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	2.2	2.2	2.2	2.2	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)