

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: P640749

Luminaire Tested: GWS-SA5E-740-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640749  
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-SA5E-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**

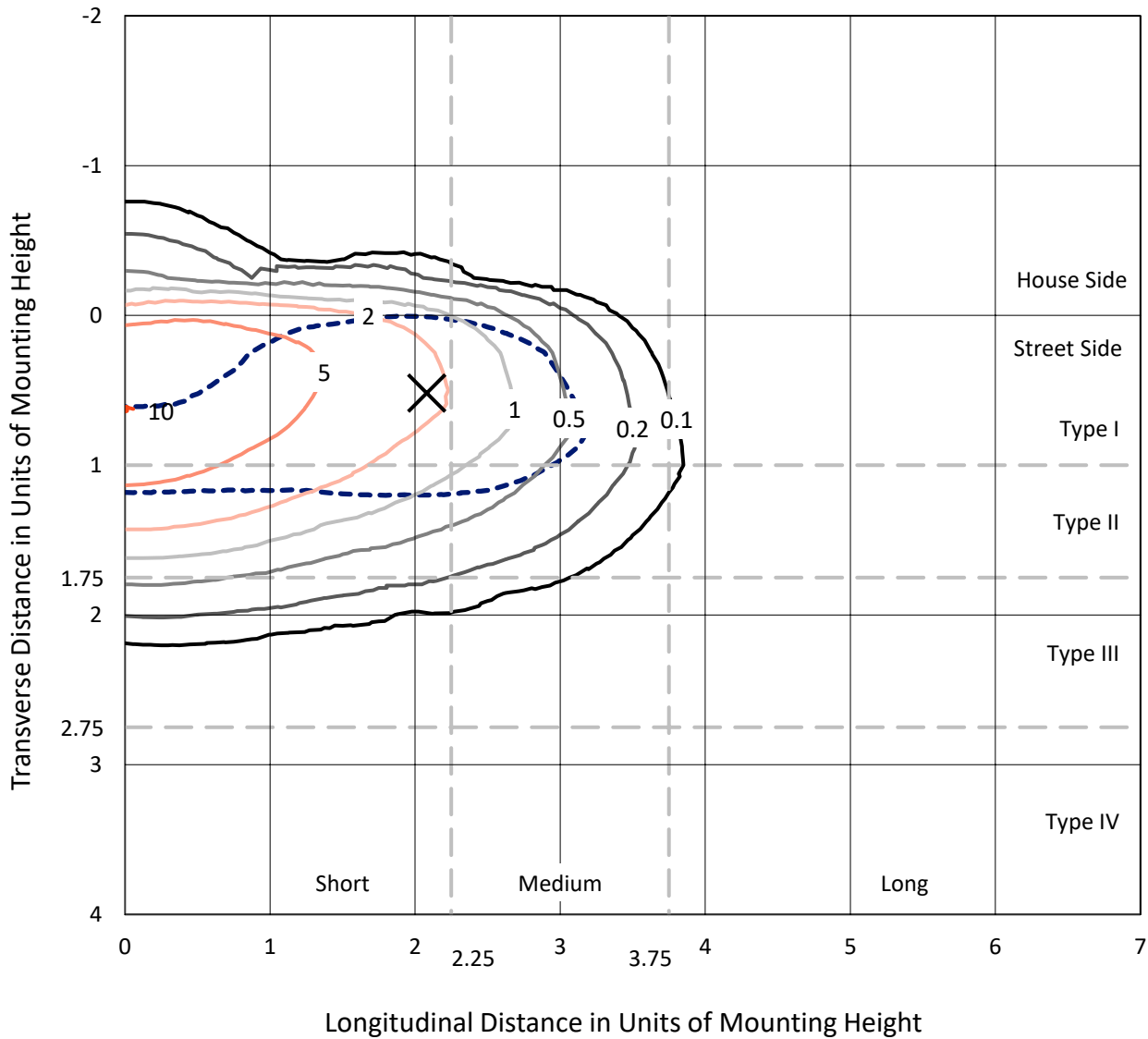
Lumens per Lamp: N/A  
Luminaire Lumens: 30275.8 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P640749  
 CATALOG NUMBER: GWS-SA5E-740-U-T2R-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

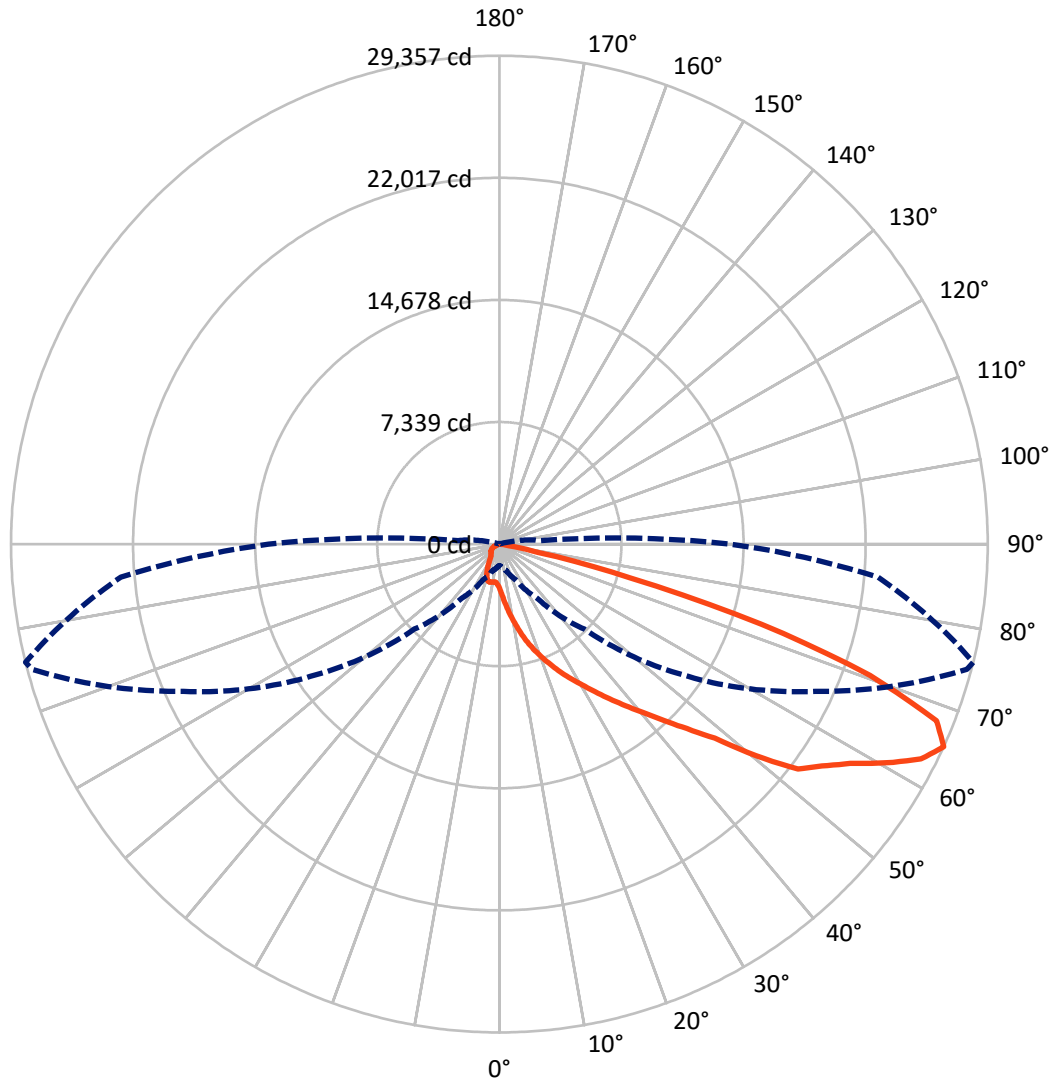
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P640749  
CATALOG NUMBER: GWS-SA5E-740-U-T2R-W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P640749  
 CATALOG NUMBER: GWS-SA5E-740-U-T2R-W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1674.1	0.0	1674.1
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	28601.7	0.0	28601.7
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	30275.8	0.0	30275.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.1	1.1
10°-20°	1237.4	4.1
20°-30°	2524.4	8.3
30°-40°	4489.8	14.8
40°-50°	6636.9	21.9
50°-60°	7598.8	25.1
60°-70°	5797.5	19.1
70°-80°	1624.0	5.4
80°-90°	40.9	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°	30275.8	100.0
0°-180°	30275.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P640749

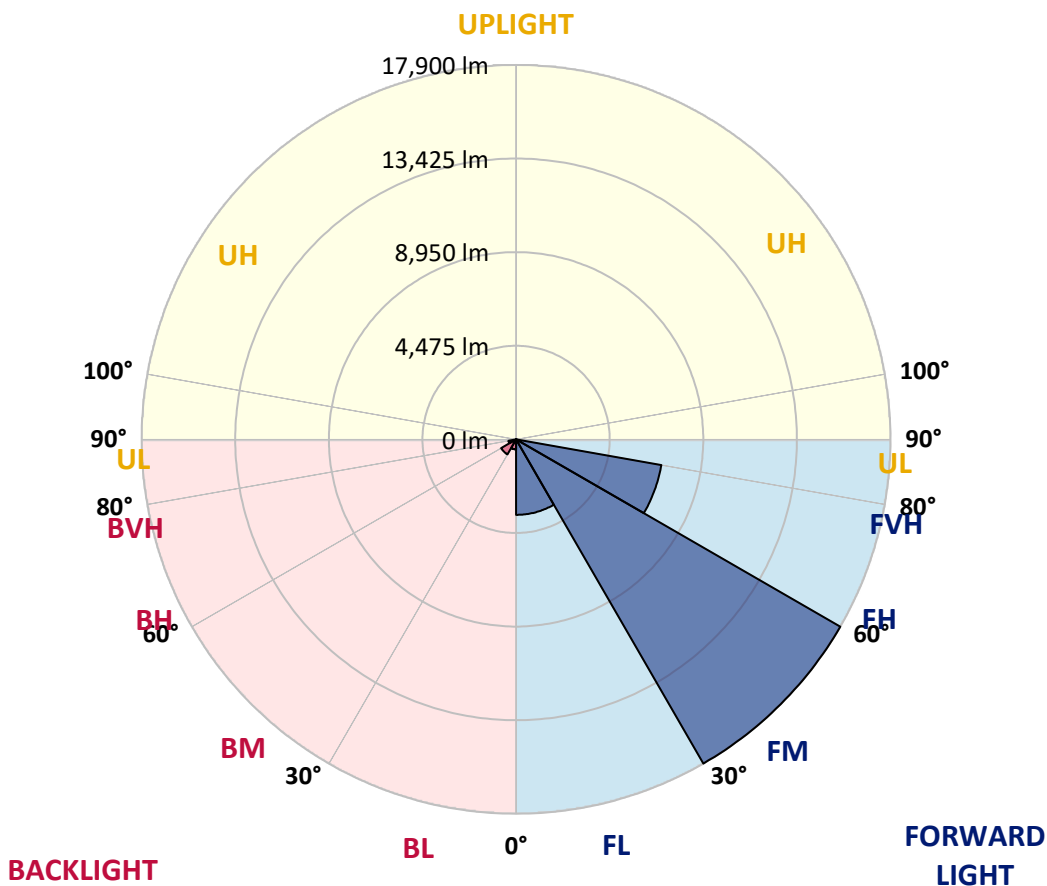
CATALOG NUMBER: GWS-SA5E-740-U-T2R-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3610.2	11.9			
FM (30°-60°)	17899.5	59.1			
FH (60°-80°)	7053.5	23.3			G3/7500
FVH (80°-90°)	38.5	0.1			G1/100
BL (0°-30°)	477.7	1.6	B1/500		
BM (30°-60°)	826.0	2.7	B1/1000		
BH (60°-80°)	368.0	1.2	B1/500		G1/500
BVH (80°-90°)	2.4	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





REPORT NUMBER: P640749

CATALOG NUMBER: GWS-SA5E-740-U-T2R-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5
2.5°	4131.1	4193.0	4144.6	4063.8	3907.7	3757.0	3563.3	3296.8	3084.2	3057.3	2858.1
5°	5579.0	5573.6	5468.7	5363.7	5199.5	4941.2	4551.0	4055.8	3579.4	3539.0	3092.3
7.5°	6440.2	6448.3	6389.1	6308.4	6146.9	5880.4	5474.1	4876.6	4179.6	4098.8	3412.5
10°	7164.2	7161.5	7118.4	7080.8	6935.4	6757.8	6321.8	5665.1	4825.5	4699.0	3770.5
12.5°	7707.8	7726.7	7748.2	7785.9	7724.0	7549.0	7137.3	6421.4	5479.4	5339.5	4179.6
15°	8138.4	8143.8	8224.5	8369.9	8421.0	8329.5	7955.4	7153.4	6125.3	6004.2	4650.5
17.5°	8267.6	8278.4	8415.6	8682.1	8951.2	9002.3	8719.7	7890.8	6760.5	6631.3	5108.0
20°	8539.4	8563.6	8665.9	8900.1	9239.2	9513.7	9403.3	8636.3	7395.6	7226.1	5576.3
22.5°	9395.3	9408.7	9373.7	9403.3	9578.3	9895.8	9963.1	9357.6	8046.9	7866.6	6082.3
25°	10867.4	10872.8	10627.9	10396.4	10264.5	10323.7	10471.8	10022.3	8692.8	8515.2	6553.3
27.5°	12396.0	12414.9	12121.5	11728.6	11257.6	10988.5	10945.4	10630.5	9344.1	9147.7	7018.9
30°	13835.9	13835.9	13526.4	13047.3	12417.6	11892.8	11583.3	11244.2	10041.2	9825.9	7495.2
32.5°	15130.4	15119.6	14724.0	14204.6	13582.9	13006.9	12355.7	11884.7	10816.2	10576.7	8044.2
35°	16198.8	16171.9	15722.4	15224.6	14559.8	14131.9	13405.3	12573.6	11655.9	11416.4	8609.4
37.5°	17006.2	16976.6	16564.8	16037.3	15421.0	15143.8	14535.6	13399.9	12541.4	12323.4	9236.5
40°	17444.9	17385.7	17100.4	16707.5	16190.7	15948.5	15695.5	14425.2	13582.9	13311.1	9976.6
42.5°	17574.0	17504.1	17315.7	17132.7	16820.5	16629.4	16901.2	15582.5	14726.7	14492.5	10821.6
45°	17191.9	17151.5	17135.4	17267.2	17323.8	17377.6	18047.7	16863.5	15988.9	15811.3	11884.7
47.5°	16271.5	16260.7	16403.3	16952.4	17549.8	18117.7	19293.8	18443.3	17625.2	17434.1	13370.3
50°	14570.6	14680.9	15079.2	16042.7	17237.6	18537.5	20459.1	20634.0	20273.4	19993.5	15308.0
52.5°	11911.6	12124.2	13017.7	14481.8	16198.8	18419.1	20997.3	22388.7	22757.4	22466.8	16696.7
55°	9346.8	9546.0	10342.6	12199.6	14489.8	17517.5	21021.6	22994.3	23799.0	23529.8	17635.9
57.5°	6962.3	7145.3	7869.3	9645.5	12164.6	15744.0	20445.6	23330.7	25034.3	24862.0	19118.8
60°	4551.0	4731.3	5385.2	6938.1	9435.6	13160.3	19027.3	23260.7	26716.3	26700.2	20940.8
62.5°	2524.4	2667.1	3140.7	4351.8	6585.6	10191.9	16799.0	22558.3	28344.5	28446.8	22442.6
65°	1291.8	1383.3	1671.3	2392.5	3985.8	7226.1	13868.2	20948.9	29098.1	29356.5	22838.2
67.5°	845.1	874.7	944.6	1243.4	2134.2	4545.6	10436.8	18368.0	28037.7	28339.2	21511.4
70°	686.3	710.5	750.9	828.9	1100.7	2414.1	6854.7	14670.2	23427.6	23632.1	17130.0
72.5°	503.3	535.6	613.6	664.7	793.9	1324.1	3565.9	9629.4	16088.5	16449.1	10765.1
75°	371.4	390.2	454.8	524.8	648.6	837.0	1364.5	5062.3	8308.0	8098.1	4521.3
77.5°	223.4	236.8	290.7	336.4	462.9	522.1	476.4	1870.4	2527.1	2376.4	1092.7
80°	110.3	123.8	191.1	253.0	296.0	209.9	199.2	522.1	562.5	562.5	274.5
82.5°	37.7	48.4	102.3	166.9	145.3	80.7	94.2	134.6	150.7	158.8	80.7
85°	0.0	0.0	24.2	48.4	21.5	10.8	24.2	29.6	37.7	40.4	26.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	8.1	10.8	10.8
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: P640749

CATALOG NUMBER: GWS-SA5E-740-U-T2R-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5	2680.5
2.5°	2750.5	2624.0	2432.9	2260.7	2128.8	2005.0	1910.8	1835.5	1822.0	1778.9	1784.3
5°	2874.3	2645.5	2293.0	2021.1	1830.1	1700.9	1593.2	1512.5	1477.5	1442.5	1415.6
7.5°	3065.4	2734.3	2239.1	1908.1	1684.7	1485.6	1318.7	1184.2	1119.6	1079.2	1052.3
10°	3299.5	2858.1	2241.8	1840.8	1509.8	1205.7	976.9	828.9	758.9	737.4	734.7
12.5°	3579.4	3014.2	2263.4	1730.5	1256.8	896.2	724.0	656.7	635.1	616.3	616.3
15°	3875.4	3189.2	2263.4	1528.6	958.1	699.7	627.1	584.0	557.1	546.3	540.9
17.5°	4187.6	3353.3	2209.5	1251.4	734.7	616.3	557.1	516.7	495.2	479.0	473.7
20°	4521.3	3509.4	2075.0	958.1	629.8	551.7	495.2	454.8	433.3	417.1	417.1
22.5°	4860.4	3654.8	1857.0	737.4	557.1	489.8	436.0	398.3	376.8	360.6	360.6
25°	5175.3	3751.6	1577.1	608.2	503.3	436.0	387.5	349.9	325.6	314.9	309.5
27.5°	5468.7	3813.5	1267.6	535.6	452.1	390.2	339.1	304.1	285.3	277.2	271.8
30°	5772.8	3829.7	968.9	487.1	409.1	344.5	296.0	269.1	253.0	242.2	242.2
32.5°	6068.8	3810.8	740.1	446.8	371.4	304.1	263.7	239.5	226.1	218.0	215.3
35°	6370.3	3724.7	600.2	411.8	333.7	266.4	234.1	215.3	207.2	196.5	196.5
37.5°	6698.6	3609.0	522.1	376.8	296.0	239.5	209.9	196.5	185.7	177.6	174.9
40°	7107.7	3474.4	479.0	347.2	261.1	215.3	188.4	174.9	166.9	158.8	156.1
42.5°	7592.1	3342.6	457.5	314.9	234.1	191.1	169.6	153.4	145.3	134.6	131.9
45°	8278.4	3313.0	433.3	279.9	209.9	172.2	148.0	131.9	121.1	113.0	110.3
47.5°	9381.8	3396.4	392.9	242.2	185.7	150.7	126.5	113.0	99.6	91.5	86.1
50°	10477.1	3374.9	352.6	209.9	164.2	129.2	107.7	94.2	80.7	72.7	70.0
52.5°	11074.6	3272.6	314.9	185.7	142.6	110.3	91.5	75.4	67.3	59.2	56.5
55°	11615.6	3232.2	277.2	161.5	121.1	96.9	75.4	61.9	56.5	48.4	45.8
57.5°	12675.9	3326.4	244.9	139.9	105.0	83.4	64.6	51.1	45.8	37.7	35.0
60°	13784.7	3337.2	209.9	121.1	91.5	70.0	51.1	40.4	35.0	26.9	24.2
62.5°	14363.3	3065.4	172.2	102.3	75.4	59.2	43.1	32.3	26.9	16.1	16.1
65°	13878.9	2478.7	145.3	83.4	59.2	45.8	32.3	24.2	16.1	8.1	2.7
67.5°	12283.0	1762.8	121.1	67.3	43.1	32.3	24.2	16.1	2.7	0.0	0.0
70°	8994.3	1006.5	94.2	48.4	32.3	21.5	16.1	8.1	0.0	0.0	0.0
72.5°	5527.9	538.3	70.0	32.3	24.2	16.1	13.5	5.4	0.0	0.0	0.0
75°	2096.5	258.4	43.1	21.5	18.8	13.5	8.1	2.7	0.0	0.0	0.0
77.5°	567.9	126.5	24.2	16.1	13.5	8.1	5.4	0.0	0.0	0.0	0.0
80°	148.0	59.2	16.1	10.8	8.1	5.4	0.0	0.0	0.0	0.0	0.0
82.5°	51.1	26.9	8.1	8.1	5.4	2.7	0.0	0.0	0.0	0.0	0.0
85°	21.5	10.8	5.4	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	2.7	2.7	2.7	2.7	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)