

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: P640745

Luminaire Tested: GWS-SA5E-740-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-740-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28120.1 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

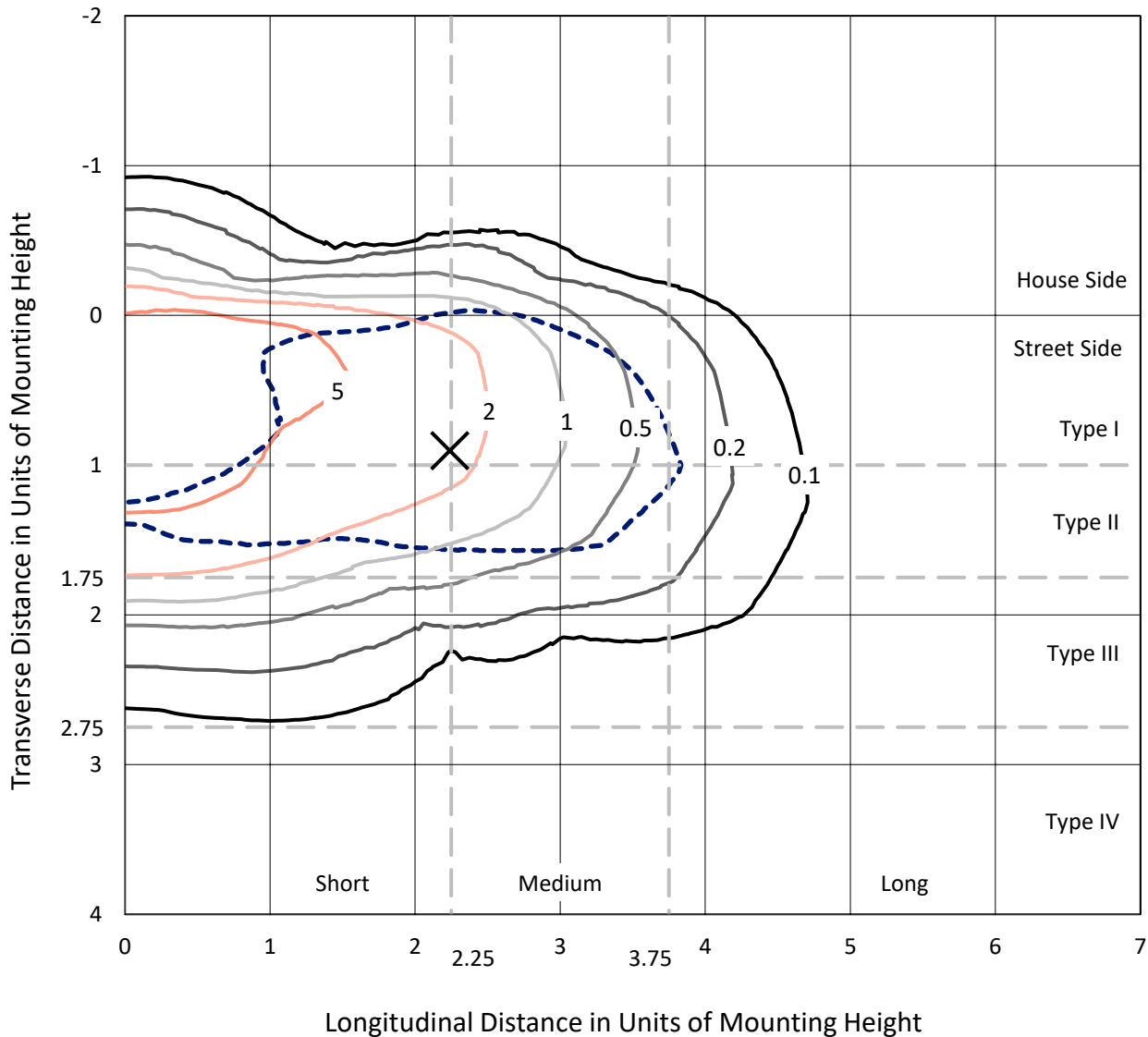
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

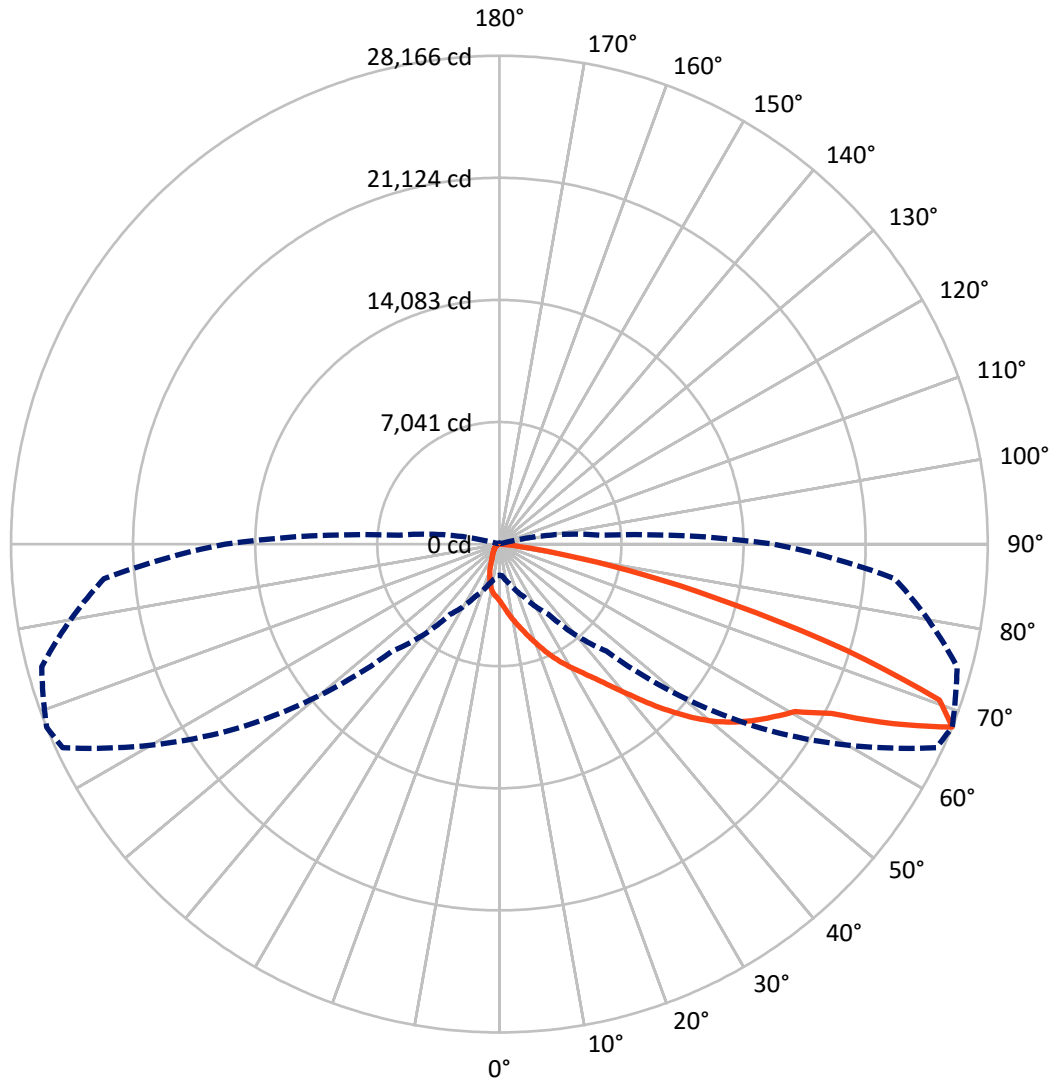
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2030.6	0.0	2030.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	26089.5	0.0	26089.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	28120.1	0.0	28120.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.2	1.1
10°-20°	916.5	3.3
20°-30°	1575.1	5.6
30°-40°	2738.5	9.7
40°-50°	4778.4	17.0
50°-60°	7207.0	25.6
60°-70°	7226.7	25.7
70°-80°	3188.4	11.3
80°-90°	170.3	0.6
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°	28120.1	100.0
0°-180°	28120.1	100.0

Coefficient of Utilization



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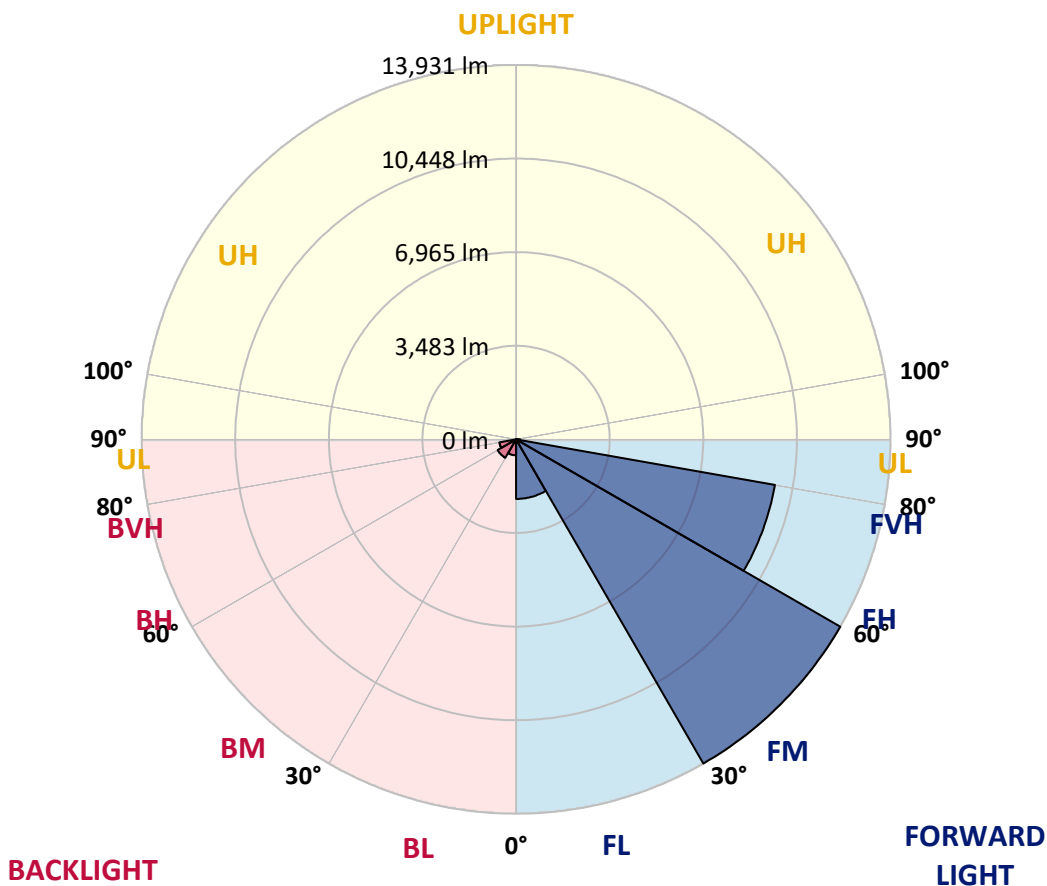
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2216.7	7.9			
FM (30°-60°)	13930.6	49.5			
FH (60°-80°)	9781.5	34.8			G4/12000
FVH (80°-90°)	160.7	0.6			G2/225
BL (0°-30°)	594.1	2.1	B2/1000		
BM (30°-60°)	793.2	2.8	B1/1000		
BH (60°-80°)	633.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	9.6	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5
2.5°	3810.7	3834.9	3810.7	3816.1	3746.1	3713.8	3643.8	3547.0	3522.7	3460.8	3366.7
5°	4276.3	4297.8	4273.6	4268.2	4187.5	4128.3	4012.5	3845.7	3797.2	3676.1	3490.4
7.5°	4529.2	4542.7	4550.8	4564.2	4534.6	4486.2	4381.2	4174.0	4122.9	3926.4	3665.4
10°	4556.2	4566.9	4607.3	4688.0	4747.2	4776.8	4717.6	4526.6	4445.8	4254.7	3880.7
12.5°	4480.8	4496.9	4561.5	4696.1	4860.3	5011.0	5048.6	4881.8	4809.1	4564.2	4133.6
15°	4381.2	4394.7	4483.5	4666.5	4914.1	5191.3	5347.4	5274.7	5194.0	4938.3	4413.5
17.5°	4227.8	4246.7	4370.5	4618.1	4938.3	5333.9	5670.3	5694.5	5638.0	5360.8	4723.0
20°	4141.7	4155.2	4265.5	4521.2	4922.2	5438.9	5971.7	6200.5	6138.6	5847.9	5078.2
22.5°	4214.4	4225.1	4297.8	4496.9	4868.3	5498.1	6251.6	6706.4	6671.4	6370.0	5452.3
25°	4596.5	4631.5	4588.4	4623.4	4892.5	5530.4	6477.6	7212.3	7220.4	6916.3	5839.8
27.5°	5371.6	5325.8	5223.6	5048.6	5080.9	5616.5	6671.4	7688.7	7758.6	7449.2	6184.3
30°	6160.1	6133.2	6071.3	5799.5	5573.4	5807.5	6835.6	8175.8	8286.1	7973.9	6491.1
32.5°	7045.5	7072.4	6962.1	6636.4	6251.6	6195.1	7005.1	8638.7	8845.9	8568.7	6851.7
35°	8103.1	8111.2	7893.2	7532.6	7096.6	6835.6	7309.2	9150.0	9532.1	9327.6	7333.4
37.5°	9133.8	9182.3	9063.9	8496.0	8108.5	7632.2	7812.5	9806.6	10344.9	10264.1	7939.0
40°	10046.1	10121.5	10083.8	9534.8	9026.2	8625.2	8592.9	10576.3	11327.1	11418.6	8738.2
42.5°	10772.8	10821.2	10850.8	10460.6	10011.2	9785.1	9556.4	11469.8	12487.0	12861.1	9717.8
45°	11539.7	11555.9	11617.8	11354.1	10961.1	10980.0	10694.7	12554.3	13708.8	14459.7	10842.7
47.5°	12516.6	12570.5	12540.9	12263.7	11908.4	12121.0	11870.8	13671.2	14914.5	16165.9	11994.6
50°	13706.1	13762.7	13735.7	13412.8	13017.2	13106.0	12949.9	14755.7	16077.1	17775.2	12952.6
52.5°	14319.7	14365.5	14699.2	14844.5	14637.3	14072.1	13870.3	15947.9	17059.3	19099.2	13832.6
55°	14023.7	14056.0	14782.6	15396.2	16155.1	15590.0	14796.1	16868.3	17925.9	20132.7	14486.6
57.5°	12796.5	12971.4	13959.1	14997.9	16593.8	17088.9	16297.7	17869.4	18760.2	20851.2	15129.8
60°	10280.3	10272.2	11687.8	13552.7	15738.0	17500.7	18418.4	19223.0	19597.1	21402.9	15990.9
62.5°	5681.1	5732.2	7616.0	10073.1	13359.0	16435.0	20008.9	21561.7	21505.2	22366.3	17339.2
65°	2828.4	2930.7	3953.3	5769.9	8888.9	13582.3	20283.4	25130.2	24968.7	24635.0	20124.6
67.5°	1795.0	1835.4	2400.5	3353.2	4941.0	8730.2	18574.5	27791.7	28165.8	27326.2	22888.4
70°	1162.6	1229.9	1668.5	2292.9	2981.8	4499.6	13606.6	26066.7	26925.2	27030.1	21166.1
72.5°	632.4	680.9	1065.7	1636.2	2152.9	2249.8	7642.9	19562.1	20942.7	22928.8	16558.8
75°	360.6	395.6	584.0	1111.5	1579.7	1369.8	3388.2	13095.2	13975.3	16386.5	11865.4
77.5°	218.0	247.6	328.3	540.9	990.4	915.0	1281.0	7971.3	8531.0	9777.0	6227.4
80°	99.6	118.4	207.2	298.7	540.9	433.3	489.8	3716.5	3837.6	4012.5	2061.4
82.5°	45.7	53.8	94.2	177.6	306.8	250.3	188.4	858.5	1208.3	1143.7	524.8
85°	5.4	5.4	35.0	72.7	86.1	64.6	78.0	193.8	244.9	344.5	150.7
87.5°	0.0	0.0	2.7	2.7	5.4	8.1	16.1	24.2	35.0	56.5	37.7
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°	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5	3272.5
2.5°	3323.6	3248.2	3181.0	3081.4	3014.1	2938.8	2887.6	2825.7	2801.5	2782.7	2755.8
5°	3398.9	3277.8	3113.7	2930.7	2780.0	2637.3	2505.5	2419.4	2344.0	2333.2	2295.6
7.5°	3522.7	3342.4	3065.2	2766.5	2510.9	2274.0	2088.3	1937.6	1862.3	1838.1	1795.0
10°	3686.9	3439.3	2992.6	2535.1	2166.4	1883.8	1673.9	1504.4	1386.0	1342.9	1310.6
12.5°	3869.9	3528.1	2876.9	2249.8	1830.0	1507.1	1240.6	1060.3	985.0	958.1	933.8
15°	4079.8	3611.6	2693.9	1964.6	1501.7	1108.8	920.4	842.3	810.0	802.0	793.9
17.5°	4281.7	3665.4	2475.9	1668.5	1154.5	861.2	772.4	742.8	734.7	726.6	721.2
20°	4510.4	3703.1	2220.2	1388.6	896.2	729.3	686.2	664.7	648.6	632.4	629.7
22.5°	4744.5	3703.1	1943.0	1114.1	750.8	654.0	605.5	565.1	535.5	519.4	514.0
25°	4967.9	3651.9	1668.5	890.8	662.0	581.3	519.4	473.6	433.3	414.4	409.1
27.5°	5126.7	3520.1	1429.0	753.5	600.1	516.7	441.4	390.2	357.9	339.1	336.4
30°	5226.3	3323.6	1208.3	672.8	546.3	449.4	374.1	331.0	306.8	293.3	288.0
32.5°	5301.6	3081.4	1011.9	616.3	495.2	390.2	325.6	290.6	269.1	258.4	255.7
35°	5452.3	2852.6	866.6	565.1	441.4	341.8	285.3	258.4	242.2	228.7	226.1
37.5°	5662.2	2661.6	750.8	519.4	390.2	304.1	258.4	234.1	220.7	207.2	204.5
40°	5971.7	2540.5	664.7	473.6	344.5	274.5	236.8	215.3	196.5	183.0	180.3
42.5°	6448.0	2484.0	608.2	427.9	304.1	247.6	218.0	191.1	172.2	158.8	156.1
45°	7015.9	2513.6	559.8	382.1	277.2	228.7	193.8	166.9	148.0	134.6	131.9
47.5°	7624.1	2618.5	519.4	339.1	250.3	209.9	172.2	142.6	126.5	113.0	110.3
50°	8259.2	2790.7	484.4	298.7	228.7	188.4	148.0	123.8	107.6	96.9	94.2
52.5°	8810.9	3024.9	449.4	269.1	209.9	166.9	129.2	107.6	91.5	80.7	78.0
55°	9338.4	3245.6	422.5	242.2	188.4	145.3	113.0	91.5	78.0	67.3	64.6
57.5°	9911.6	3479.7	390.2	218.0	169.5	129.2	99.6	78.0	67.3	56.5	53.8
60°	10745.8	3826.8	341.8	199.1	148.0	113.0	86.1	70.0	59.2	45.7	43.1
62.5°	11948.8	4459.3	288.0	172.2	126.5	96.9	72.7	59.2	48.4	37.7	32.3
65°	14198.6	5535.7	236.8	142.6	102.3	80.7	61.9	48.4	37.7	26.9	24.2
67.5°	15818.7	5815.6	191.1	115.7	83.4	61.9	51.1	37.7	26.9	18.8	16.1
70°	13829.9	4176.7	148.0	94.2	70.0	48.4	40.4	29.6	18.8	13.5	10.8
72.5°	10420.2	2728.8	110.3	72.7	53.8	40.4	29.6	24.2	16.1	10.8	8.1
75°	7344.2	1577.0	80.7	53.8	37.7	29.6	24.2	18.8	13.5	8.1	8.1
77.5°	3764.9	651.3	56.5	37.7	26.9	18.8	16.1	10.8	10.8	8.1	5.4
80°	1143.7	215.3	32.3	24.2	18.8	13.5	8.1	8.1	8.1	5.4	2.7
82.5°	261.0	70.0	18.8	18.8	13.5	10.8	8.1	2.7	2.7	0.0	0.0
85°	67.3	21.5	16.1	13.5	13.5	10.8	5.4	2.7	0.0	0.0	0.0
87.5°	24.2	13.5	13.5	13.5	10.8	8.1	5.4	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)