

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: P640347

Luminaire Tested: GWS-SA5D-760-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-760-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23880.2 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

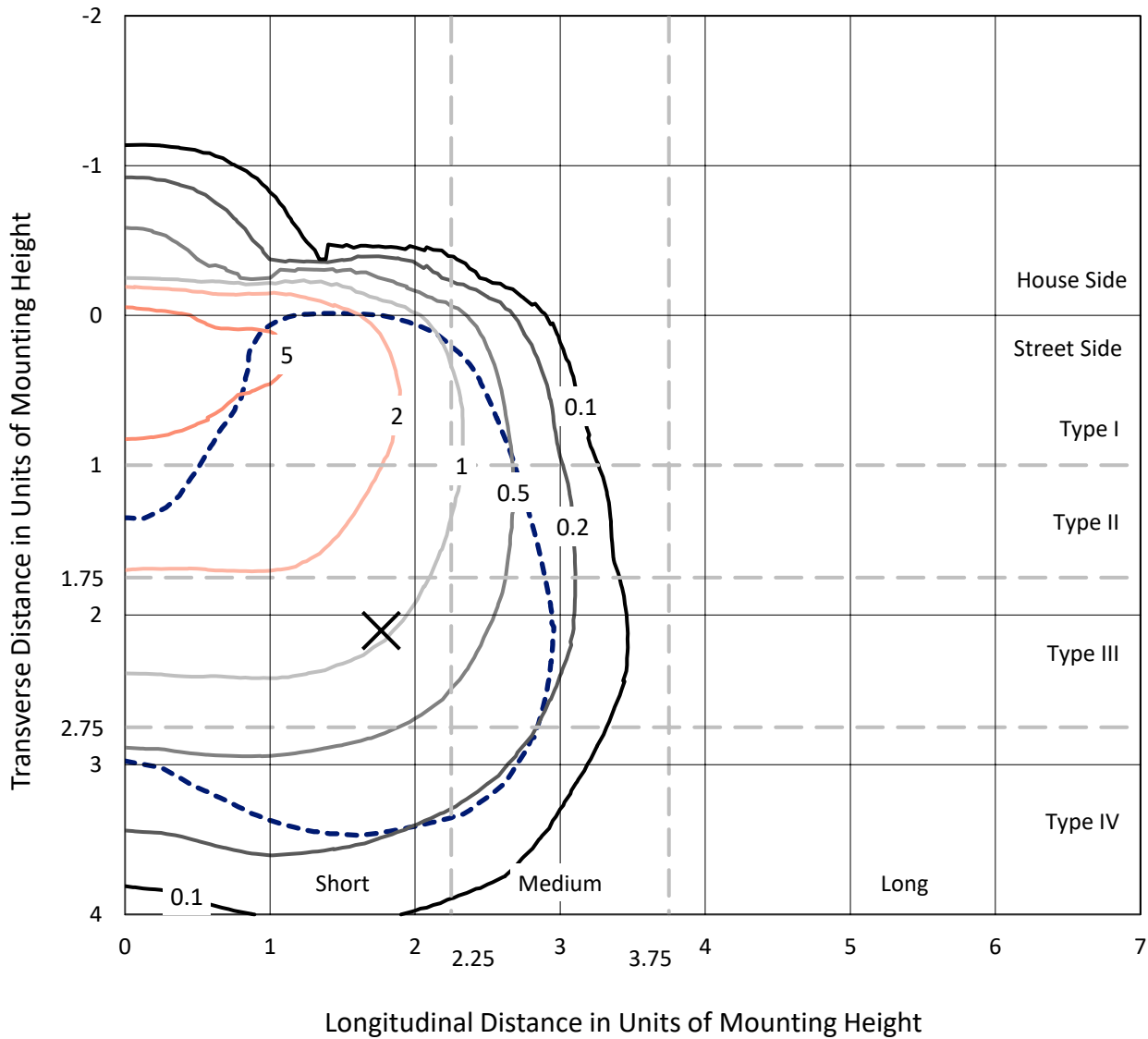
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

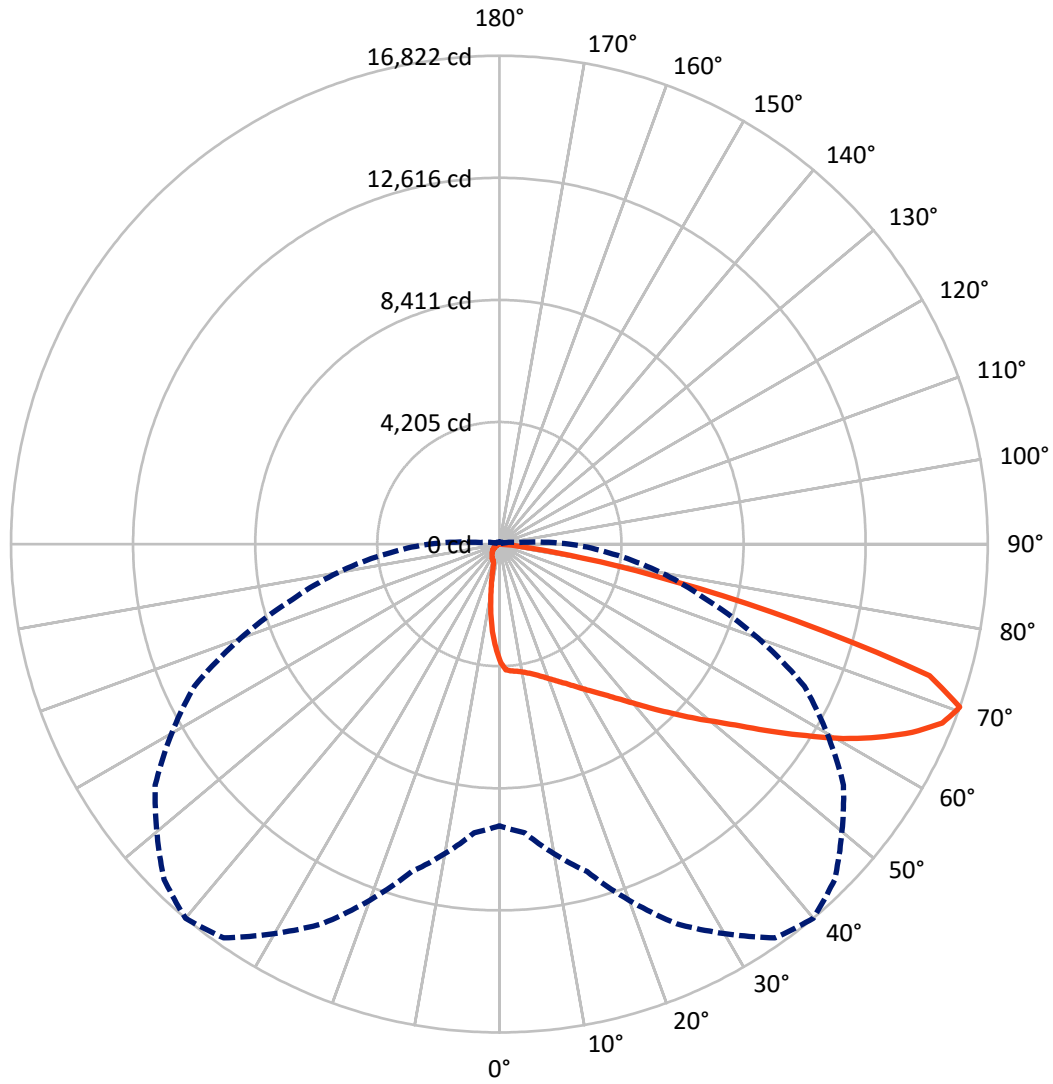
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1952.8	0.0	1952.8
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	21927.4	0.0	21927.4
	% Fixture	91.8	0.0	91.8
Total	Lumens	23880.2	0.0	23880.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.5	1.4
10°-20°	868.6	3.6
20°-30°	1453.8	6.1
30°-40°	2283.4	9.6
40°-50°	3611.8	15.1
50°-60°	5268.7	22.1
60°-70°	6531.3	27.4
70°-80°	3304.4	13.8
80°-90°	215.7	0.9
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°	23880.2	100.0
0°-180°	23880.2	100.0

Coefficient of Utilization



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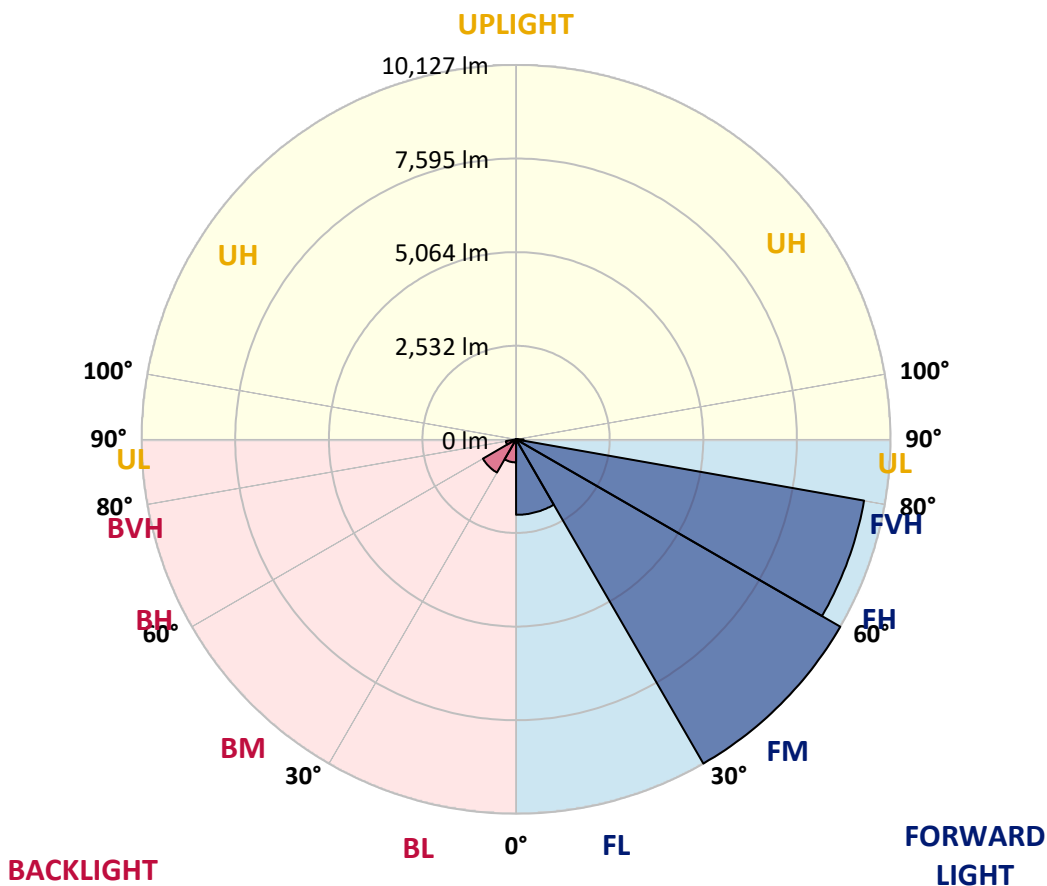
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2041.3	8.5			
FM (30°-60°)	10127.3	42.4			
FH (60°-80°)	9557.3	40.0			G4/12000
FVH (80°-90°)	201.5	0.8			G2/225
BL (0°-30°)	623.6	2.6	B2/1000		
BM (30°-60°)	1036.5	4.3	B2/2500		
BH (60°-80°)	278.4	1.2	B1/500		G1/500
BVH (80°-90°)	14.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4052.2	4052.2	4052.2	4052.2	4052.2	4052.2	4052.2	4052.2	4052.2	4052.2	4052.2
2.5°	4356.4	4371.6	4369.4	4375.9	4360.7	4336.8	4332.5	4299.9	4241.2	4167.3	4084.8
5°	4445.5	4462.8	4449.8	4443.3	4415.0	4389.0	4382.4	4347.7	4280.3	4180.4	4037.0
7.5°	4521.5	4525.8	4517.2	4501.9	4460.7	4425.9	4402.0	4354.2	4273.8	4173.9	4008.7
10°	4534.5	4532.4	4536.7	4538.9	4512.8	4482.4	4462.8	4397.7	4295.5	4189.1	4010.9
12.5°	4519.3	4519.3	4547.6	4580.2	4580.2	4565.0	4545.4	4486.7	4367.2	4241.2	4054.4
15°	4538.9	4545.4	4599.7	4660.6	4680.1	4664.9	4656.2	4595.4	4471.5	4332.5	4132.6
17.5°	4608.4	4614.9	4701.8	4793.1	4817.0	4799.6	4782.2	4721.4	4588.9	4436.8	4221.7
20°	4710.5	4727.9	4838.7	4956.0	4977.8	4956.0	4921.3	4836.5	4704.0	4549.7	4306.4
22.5°	4897.4	4908.2	5027.7	5151.6	5162.5	5127.7	5075.6	4958.2	4819.2	4669.2	4402.0
25°	5145.1	5160.3	5279.8	5399.3	5371.0	5318.9	5247.2	5114.7	4956.0	4810.5	4523.7
27.5°	5440.6	5458.0	5575.3	5679.6	5605.7	5544.9	5464.5	5299.3	5138.6	5006.0	4680.1
30°	5760.0	5775.2	5879.5	5972.9	5875.1	5803.4	5707.8	5538.3	5375.4	5275.4	4901.7
32.5°	6068.5	6066.3	6166.3	6242.3	6142.4	6085.9	5999.0	5827.3	5697.0	5653.5	5232.0
35°	6355.3	6355.3	6437.9	6513.9	6442.2	6411.8	6331.4	6194.5	6120.6	6172.8	5673.1
37.5°	6644.3	6629.1	6707.3	6792.0	6785.5	6787.7	6742.1	6676.9	6681.2	6865.9	6279.3
40°	6883.3	6876.8	6968.0	7078.8	7165.7	7235.3	7207.0	7230.9	7367.8	7713.3	7054.9
42.5°	7074.5	7089.7	7207.0	7383.0	7602.5	7743.7	7763.2	7861.0	8213.0	8747.5	7930.5
45°	7293.9	7296.1	7459.1	7728.5	8078.3	8302.1	8380.3	8632.3	9132.1	9820.8	8890.9
47.5°	7563.4	7537.3	7719.8	8097.8	8604.1	8934.4	9073.4	9388.5	10162.0	10868.1	9673.1
50°	7861.0	7813.2	8019.6	8534.6	9192.9	9605.7	9888.2	10348.8	11183.2	11728.5	10255.4
52.5°	8206.5	8160.9	8395.5	9036.5	9899.1	10401.0	10763.8	11228.8	12058.8	12384.7	10603.0
55°	8645.4	8599.8	8847.4	9638.3	10733.4	11385.2	11765.5	12156.6	12873.6	12869.2	10855.1
57.5°	9132.1	9069.1	9412.4	10398.8	11774.1	12452.0	12838.8	13030.0	13492.8	13245.1	11024.5
60°	9690.5	9634.0	10109.8	11304.8	12975.7	13603.6	13847.0	13768.7	14001.2	13466.7	10965.9
62.5°	10194.6	10168.5	10759.5	12265.2	14120.7	14650.9	14718.2	14377.1	14374.9	13471.1	10570.4
65°	10718.2	10768.2	11646.0	13371.1	15272.3	15628.6	15513.5	14981.1	14524.9	12938.7	9401.5
67.5°	10913.7	11059.3	12230.4	14370.6	16180.5	16458.6	16256.5	15283.1	13901.3	11148.4	7159.2
70°	9705.7	9979.5	11678.5	14427.1	16556.4	16821.5	16336.9	14470.5	11589.5	7385.2	3921.8
72.5°	7380.8	7700.2	9731.8	11813.3	14889.9	15493.9	14666.1	11789.4	7469.9	3235.2	1316.7
75°	4130.4	4475.9	7248.3	8895.2	9996.8	10548.7	10244.5	7563.4	3309.1	845.2	393.3
77.5°	1397.1	1512.2	3372.1	5503.6	6598.6	6103.3	5166.8	3756.7	1216.7	321.6	208.6
80°	827.8	871.3	1255.9	2739.8	3472.1	2878.9	2272.7	1388.4	619.2	171.6	145.6
82.5°	247.7	293.3	693.1	1016.8	1360.1	847.4	717.0	793.1	321.6	93.4	121.7
85°	0.0	0.0	147.7	315.0	356.3	139.1	139.1	449.8	58.7	39.1	89.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	10.9	6.5	8.7	19.6
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°	4052.2	4052.2	4052.2	4052.2	4052.2	4052.2	4052.2	4052.2	4052.2	4052.2	4052.2
2.5°	4026.1	3950.1	3861.0	3776.2	3695.9	3591.6	3541.6	3480.7	3428.6	3400.4	3415.6
5°	3945.7	3826.2	3643.7	3459.0	3272.2	3096.2	2937.6	2831.1	2735.5	2685.5	2696.4
7.5°	3876.2	3715.4	3430.8	3128.8	2828.9	2526.9	2281.4	2090.2	1942.4	1881.6	1870.7
10°	3845.8	3643.7	3241.7	2807.2	2346.6	1940.3	1592.6	1381.9	1232.0	1158.1	1171.1
12.5°	3861.0	3606.8	3081.0	2492.1	1894.6	1421.0	1088.5	890.8	784.4	740.9	730.0
15°	3904.4	3598.1	2937.6	2170.6	1462.3	992.9	751.8	671.4	649.7	645.3	645.3
17.5°	3954.4	3600.3	2789.8	1844.7	1110.3	736.6	643.1	627.9	621.4	617.1	619.2
20°	4004.4	3600.3	2620.3	1514.4	834.3	636.6	612.7	601.9	595.3	593.2	593.2
22.5°	4065.2	3600.3	2431.3	1208.1	669.2	604.0	584.5	578.0	571.4	569.3	567.1
25°	4139.1	3602.4	2222.7	945.1	608.4	575.8	560.6	554.1	547.5	543.2	543.2
27.5°	4245.6	3619.8	1992.4	736.6	573.6	549.7	536.7	530.2	523.6	517.1	517.1
30°	4399.8	3663.3	1733.9	608.4	541.0	521.5	508.4	504.1	497.6	491.0	488.9
32.5°	4630.1	3739.3	1466.6	545.4	510.6	491.0	475.8	471.5	465.0	458.5	456.3
35°	4951.7	3878.4	1205.9	506.3	471.5	451.9	443.2	441.1	432.4	425.9	425.9
37.5°	5423.2	4104.3	956.0	467.1	438.9	423.7	412.8	408.5	399.8	393.3	391.1
40°	5999.0	4397.7	743.1	436.7	408.5	393.3	382.4	375.9	365.0	356.3	352.0
42.5°	6733.4	4756.2	586.6	404.1	380.2	365.0	356.3	343.3	328.1	315.0	312.9
45°	7498.2	5125.5	484.5	373.7	354.2	341.1	330.3	312.9	291.1	275.9	271.6
47.5°	8084.8	5355.8	423.7	341.1	325.9	315.0	302.0	280.3	254.2	236.8	232.5
50°	8504.2	5390.6	378.1	310.7	302.0	291.1	271.6	245.5	217.3	199.9	195.5
52.5°	8710.6	5234.2	341.1	282.5	275.9	265.1	241.2	212.9	182.5	165.1	160.8
55°	8804.0	4938.7	306.4	258.6	249.9	236.8	210.8	180.3	149.9	134.7	130.4
57.5°	8767.1	4501.9	275.9	234.7	223.8	208.6	180.3	147.7	123.8	108.6	106.5
60°	8493.3	3889.2	245.5	210.8	197.7	180.3	152.1	121.7	99.9	89.1	86.9
62.5°	7902.3	3128.8	215.1	182.5	173.8	156.4	130.4	99.9	82.6	76.0	73.9
65°	6692.1	2211.9	184.7	154.3	149.9	132.5	108.6	82.6	71.7	67.4	65.2
67.5°	4810.5	1344.9	156.4	132.5	128.2	113.0	91.3	71.7	65.2	63.0	63.0
70°	2418.3	636.6	123.8	108.6	108.6	93.4	78.2	65.2	63.0	60.8	60.8
72.5°	821.3	271.6	93.4	84.7	89.1	80.4	67.4	60.8	60.8	60.8	60.8
75°	280.3	143.4	65.2	60.8	65.2	65.2	58.7	58.7	60.8	60.8	60.8
77.5°	182.5	95.6	45.6	41.3	50.0	50.0	50.0	54.3	58.7	58.7	58.7
80°	149.9	52.1	30.4	28.2	36.9	36.9	41.3	50.0	54.3	54.3	54.3
82.5°	128.2	32.6	17.4	19.6	26.1	28.2	34.8	41.3	47.8	50.0	50.0
85°	86.9	17.4	13.0	15.2	17.4	21.7	28.2	34.8	39.1	43.5	43.5
87.5°	23.9	6.5	8.7	10.9	10.9	15.2	21.7	26.1	30.4	32.6	32.6
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)