

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: P637756

Luminaire Tested: GWS-SA4D-740-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-740-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19412.8 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

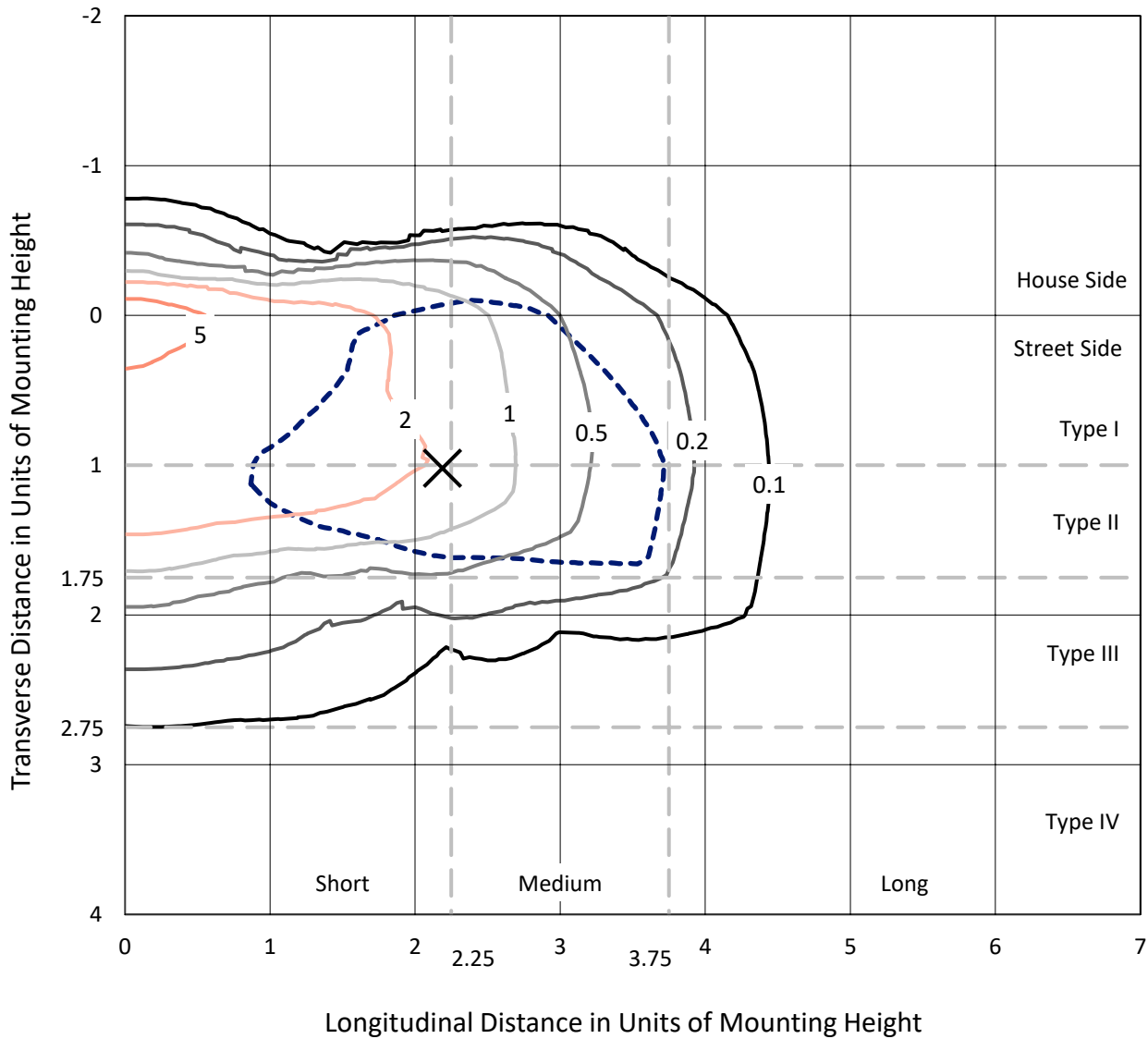
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

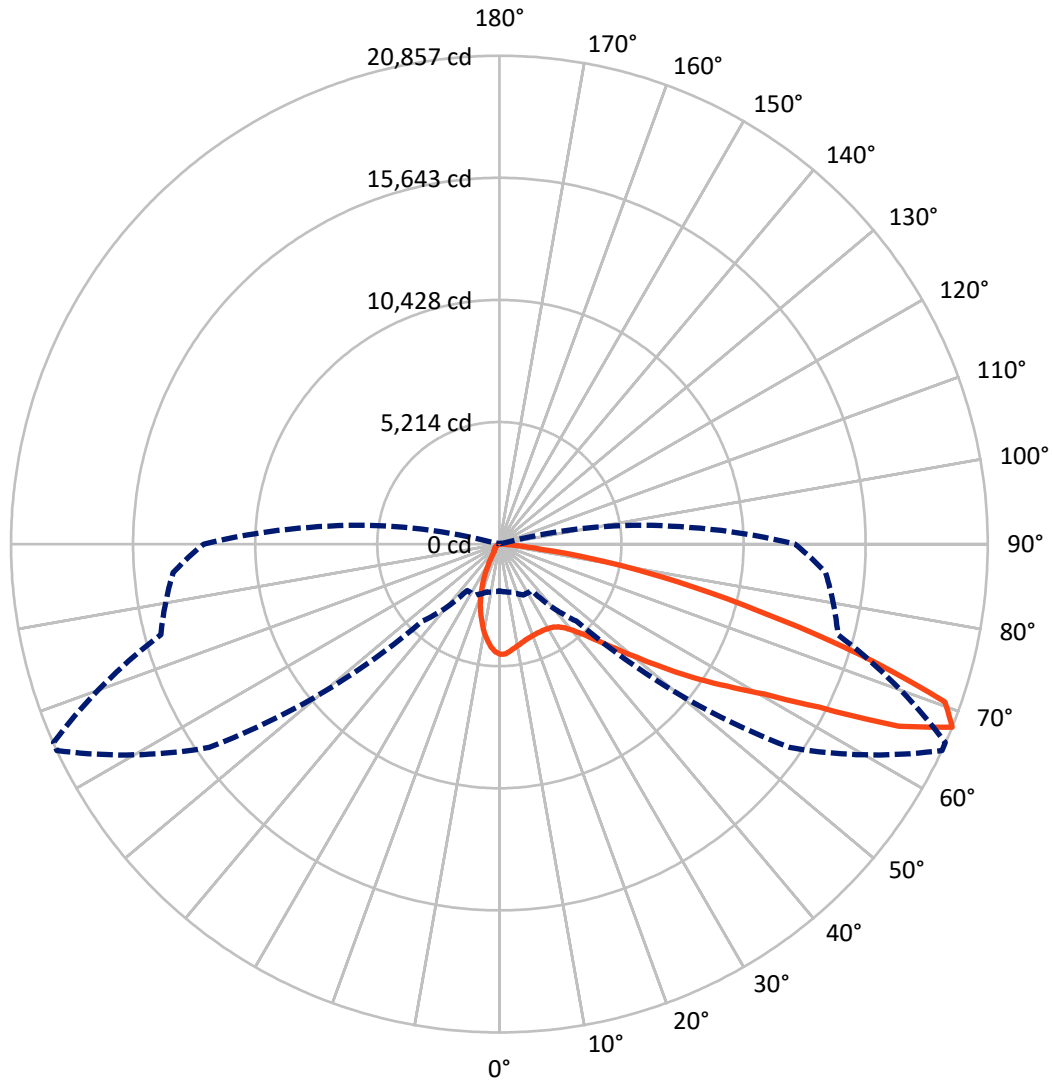
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2424.1	0.0	2424.1
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	16988.7	0.0	16988.7
	% Fixture	87.5	0.0	87.5
Total	Lumens	19412.8	0.0	19412.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.0	2.0
10°-20°	879.0	4.5
20°-30°	1256.1	6.5
30°-40°	1827.5	9.4
40°-50°	2862.1	14.7
50°-60°	4465.0	23.0
60°-70°	4904.6	25.3
70°-80°	2610.2	13.4
80°-90°	217.3	1.1
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°	19412.8	100.0
0°-180°	19412.8	100.0

Coefficient of Utilization



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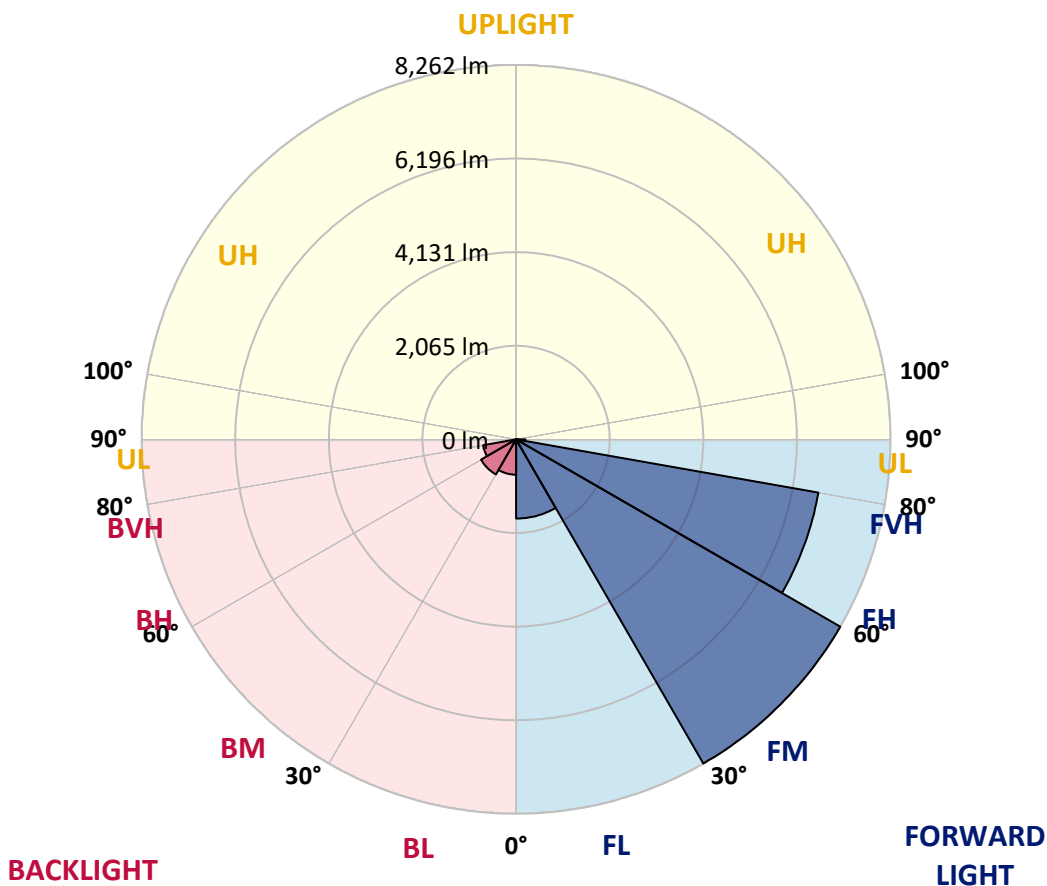
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1747.0	9.0			
FM (30°-60°)	8261.7	42.6			
FH (60°-80°)	6774.3	34.9			G3/7500
FVH (80°-90°)	205.7	1.1			G2/225
BL (0°-30°)	779.1	4.0	B2/1000		
BM (30°-60°)	892.9	4.6	B1/1000		
BH (60°-80°)	740.4	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.6	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4708.2	4708.2	4708.2	4708.2	4708.2	4708.2	4708.2	4708.2	4708.2	4708.2	4708.2
2.5°	4545.0	4559.0	4539.7	4587.1	4595.9	4648.5	4678.4	4699.4	4697.7	4724.0	4724.0
5°	4278.1	4292.2	4281.6	4332.5	4372.9	4455.4	4523.9	4602.9	4606.4	4687.1	4717.0
7.5°	4051.7	4053.4	4053.4	4116.6	4169.3	4271.1	4372.9	4494.0	4508.1	4632.7	4711.7
10°	3865.6	3870.8	3872.6	3944.6	4002.5	4125.4	4255.3	4401.0	4416.8	4585.3	4708.2
12.5°	3737.4	3739.2	3746.2	3821.7	3884.9	4013.0	4144.7	4311.5	4332.5	4530.9	4692.4
15°	3676.0	3672.5	3676.0	3739.2	3802.4	3925.3	4060.4	4239.5	4262.3	4485.3	4694.2
17.5°	3672.5	3667.2	3663.7	3711.1	3751.5	3860.3	3997.2	4192.1	4216.7	4464.2	4713.5
20°	3723.4	3719.9	3702.3	3723.4	3732.2	3821.7	3956.9	4155.2	4179.8	4460.7	4755.6
22.5°	3856.8	3848.0	3821.7	3802.4	3755.0	3807.7	3928.8	4128.9	4157.0	4469.5	4810.0
25°	4055.2	4051.7	4018.3	3970.9	3849.8	3828.7	3930.5	4128.9	4155.2	4480.0	4868.0
27.5°	4353.6	4332.5	4290.4	4207.9	4034.1	3911.2	3965.6	4139.4	4165.8	4494.0	4915.4
30°	4657.3	4655.6	4641.5	4557.2	4299.2	4069.2	4039.4	4167.5	4192.1	4506.3	4959.3
32.5°	4971.5	4976.8	5011.9	4947.0	4664.3	4304.5	4172.8	4225.5	4243.0	4530.9	4997.9
35°	5270.0	5280.5	5373.5	5396.4	5108.5	4660.8	4390.5	4341.3	4343.1	4585.3	5048.8
37.5°	5556.1	5591.2	5740.4	5851.0	5661.4	5092.7	4704.7	4537.9	4523.9	4694.2	5126.0
40°	5880.9	5947.6	6135.4	6323.3	6263.6	5663.2	5133.0	4839.9	4810.0	4894.3	5264.7
42.5°	6240.8	6312.7	6562.0	6825.3	6853.4	6353.1	5668.5	5280.5	5229.6	5231.4	5524.5
45°	6627.0	6723.5	7013.2	7392.4	7562.6	7122.0	6328.5	5875.6	5824.7	5749.2	5942.3
47.5°	7134.3	7218.6	7497.7	7934.8	8261.3	7947.1	7194.0	6641.0	6548.0	6437.4	6591.9
50°	7571.4	7645.1	7885.6	8433.4	9112.7	9010.9	8175.3	7597.7	7508.2	7320.4	7448.5
52.5°	7668.0	7725.9	7947.1	8563.3	9764.0	10353.9	9377.8	8754.6	8691.4	8343.8	8393.0
55°	7234.4	7322.1	7520.5	8205.1	9934.3	11667.0	10938.4	10058.9	9927.3	9372.5	9460.3
57.5°	6138.9	6295.2	6481.3	7371.3	9472.6	12365.6	13118.8	11440.5	11321.1	10362.6	10364.4
60°	4499.3	4625.7	4750.3	5564.9	8377.2	12318.3	15097.2	12992.4	12774.7	11171.9	11142.1
62.5°	3272.2	3337.2	3335.4	3625.1	5752.7	11507.2	16136.4	15330.7	14823.3	12037.4	11867.1
65°	2573.5	2571.8	2647.3	2742.1	3212.5	8882.8	16264.6	18745.1	18197.4	13197.7	12843.1
67.5°	2003.0	2041.6	2117.1	2396.2	2413.8	4648.5	15137.6	20856.9	20846.4	14969.0	13986.0
70°	1544.8	1597.5	1704.6	2111.9	2229.5	2601.6	11326.4	20188.1	20358.4	15760.8	13176.7
72.5°	991.9	988.3	1146.3	1706.3	2141.7	2168.0	6263.6	16036.4	16229.5	14275.6	10654.0
75°	554.7	558.2	647.8	1044.5	1996.0	2039.9	3101.9	11435.2	11588.0	11129.8	8185.8
77.5°	217.7	224.7	303.7	549.5	1316.6	1822.2	1843.3	7797.9	7820.7	6897.3	5020.7
80°	87.8	93.0	154.5	340.6	802.3	1227.1	1316.6	4594.1	4501.1	2670.1	1460.6
82.5°	26.3	28.1	61.4	193.1	419.6	872.5	888.3	1762.5	1664.2	574.0	372.2
85°	1.8	1.8	14.0	59.7	149.2	219.4	591.6	574.0	509.1	143.9	165.0
87.5°	0.0	0.0	1.8	1.8	3.5	7.0	63.2	105.3	107.1	26.3	73.7
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°	4708.2	4708.2	4708.2	4708.2	4708.2	4708.2	4708.2	4708.2	4708.2	4708.2	4708.2
2.5°	4724.0	4660.8	4655.6	4606.4	4557.2	4495.8	4423.8	4371.2	4334.3	4269.3	4257.1
5°	4717.0	4632.7	4553.7	4413.3	4257.1	4088.5	3941.1	3804.1	3718.1	3660.2	3635.6
7.5°	4702.9	4595.9	4413.3	4148.2	3886.6	3591.7	3361.8	3151.1	3007.1	2922.9	2886.0
10°	4692.4	4548.5	4251.8	3849.8	3444.3	3037.0	2687.7	2375.2	2201.4	2064.5	2041.6
12.5°	4671.4	4480.0	4044.6	3500.4	2977.3	2436.6	1990.7	1608.0	1342.9	1223.6	1181.4
15°	4650.3	4408.0	3837.5	3131.8	2468.2	1801.1	1260.4	891.8	709.2	653.0	649.5
17.5°	4646.8	4343.1	3612.8	2782.4	1934.5	1179.7	718.0	577.6	538.9	524.9	524.9
20°	4657.3	4288.7	3391.6	2380.4	1409.7	718.0	535.4	500.3	477.5	465.2	465.2
22.5°	4667.8	4232.5	3179.2	1974.9	935.7	524.9	472.2	442.4	416.1	402.0	395.0
25°	4674.9	4171.0	2944.0	1567.6	610.9	456.4	414.3	375.7	344.1	326.5	326.5
27.5°	4673.1	4097.3	2707.0	1169.2	474.0	405.5	354.6	314.2	282.6	263.3	265.1
30°	4659.1	4016.6	2461.2	816.3	414.3	354.6	303.7	261.6	230.0	214.2	212.4
32.5°	4648.5	3930.5	2176.8	574.0	372.2	310.7	258.1	217.7	191.3	179.1	177.3
35°	4636.2	3846.3	1906.5	437.1	335.3	268.6	217.7	184.3	163.3	152.7	152.7
37.5°	4639.8	3758.5	1613.3	375.7	298.4	233.5	186.1	158.0	140.4	129.9	128.2
40°	4694.2	3705.8	1325.4	340.6	265.1	201.9	161.5	136.9	119.4	108.8	107.1
42.5°	4829.3	3707.6	1049.8	314.2	235.2	172.0	140.4	117.6	101.8	89.5	87.8
45°	5099.7	3781.3	805.8	286.1	203.6	149.2	121.1	100.1	84.3	73.7	72.0
47.5°	5542.1	4000.8	610.9	261.6	177.3	129.9	103.6	84.3	70.2	61.4	59.7
50°	6246.0	4397.5	481.0	231.7	149.2	112.4	87.8	70.2	57.9	49.2	47.4
52.5°	7092.2	4992.6	412.5	205.4	128.2	98.3	75.5	57.9	47.4	40.4	38.6
55°	8064.7	5703.6	380.9	179.1	108.8	84.3	61.4	47.4	38.6	33.4	29.8
57.5°	8956.5	6344.3	379.2	152.7	93.0	72.0	50.9	40.4	33.4	26.3	24.6
60°	9825.5	6879.8	356.4	126.4	80.8	59.7	43.9	33.4	28.1	22.8	21.1
62.5°	10613.7	7315.1	298.4	101.8	68.5	49.2	36.9	29.8	24.6	19.3	19.3
65°	11603.8	7869.8	228.2	82.5	56.2	40.4	31.6	26.3	22.8	17.6	17.6
67.5°	12627.2	8163.0	163.3	68.5	45.6	35.1	28.1	24.6	19.3	15.8	15.8
70°	11437.0	6897.3	117.6	56.2	38.6	29.8	24.6	22.8	19.3	15.8	14.0
72.5°	8931.9	4973.3	87.8	43.9	33.4	28.1	22.8	21.1	17.6	14.0	14.0
75°	6623.5	2900.1	66.7	35.1	26.3	22.8	22.8	21.1	17.6	14.0	12.3
77.5°	3600.5	1011.2	50.9	28.1	21.1	17.6	19.3	19.3	15.8	12.3	10.5
80°	953.2	277.4	35.1	21.1	17.6	14.0	14.0	17.6	14.0	10.5	10.5
82.5°	277.4	80.8	24.6	17.6	14.0	12.3	12.3	12.3	10.5	8.8	7.0
85°	135.2	29.8	17.6	14.0	12.3	10.5	8.8	8.8	7.0	5.3	5.3
87.5°	59.7	12.3	14.0	12.3	12.3	8.8	7.0	5.3	5.3	3.5	1.8
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)