

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: P643000

Luminaire Tested: GWS-SA6E-722-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643000
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-SAGE-722-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24699 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

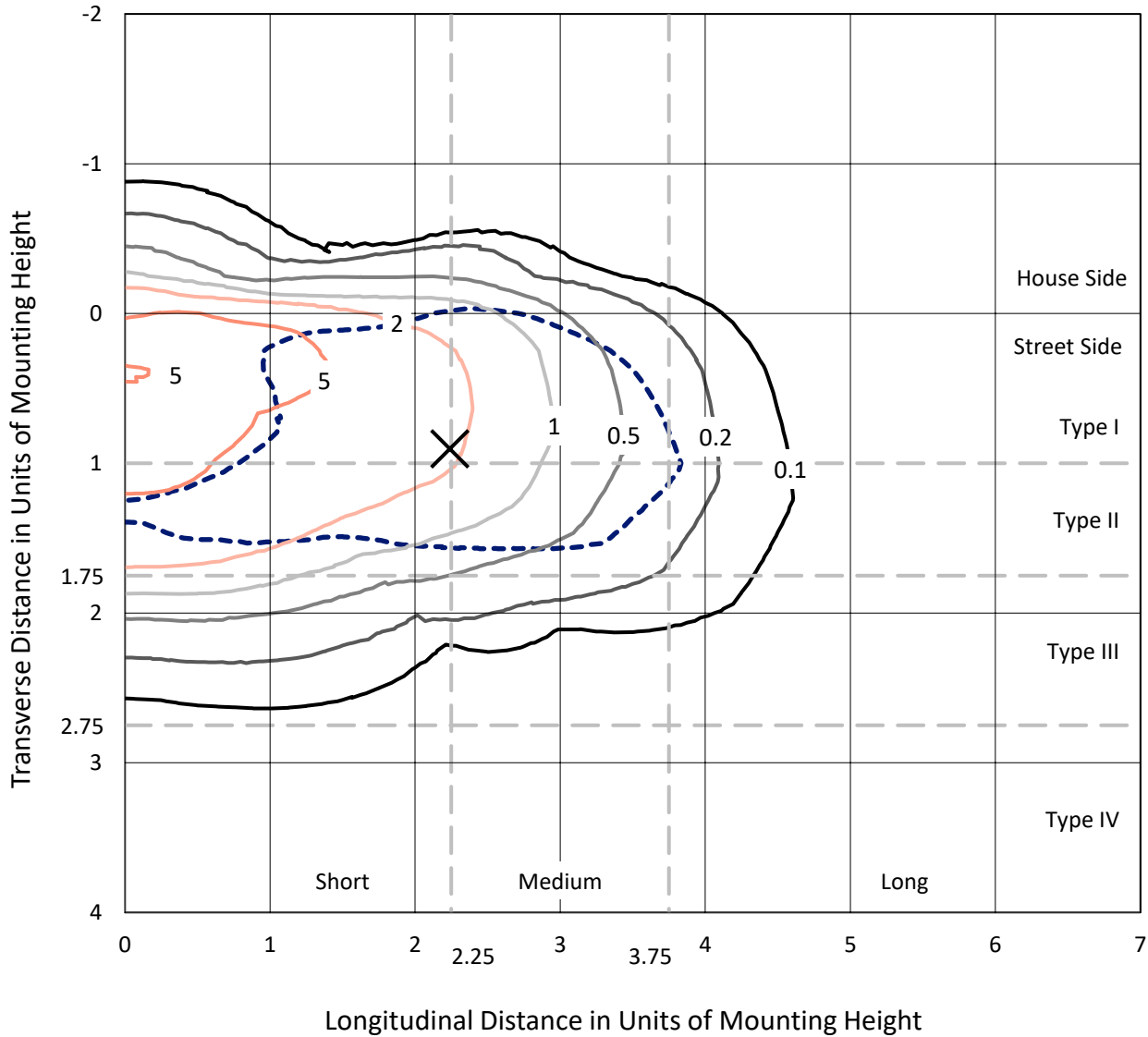
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

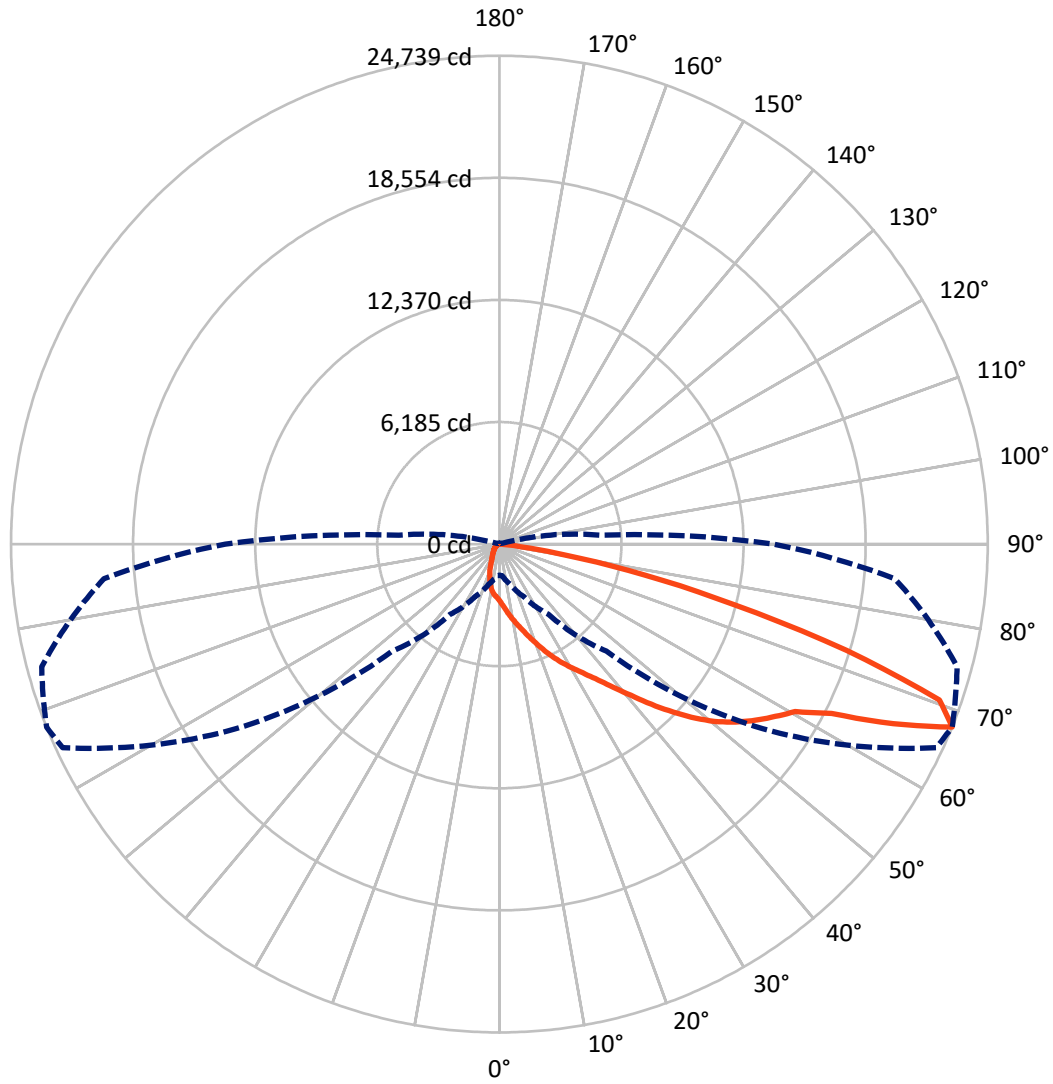
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	1783.6	0.0	1783.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	22915.4	0.0	22915.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	24699.0	0.0	24699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.3	1.1
10°-20°	805.0	3.3
20°-30°	1383.4	5.6
30°-40°	2405.3	9.7
40°-50°	4197.0	17.0
50°-60°	6330.2	25.6
60°-70°	6347.5	25.7
70°-80°	2800.5	11.3
80°-90°	149.6	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°	24699.0	100.0
0°-180°	24699.0	100.0

Coefficient of Utilization



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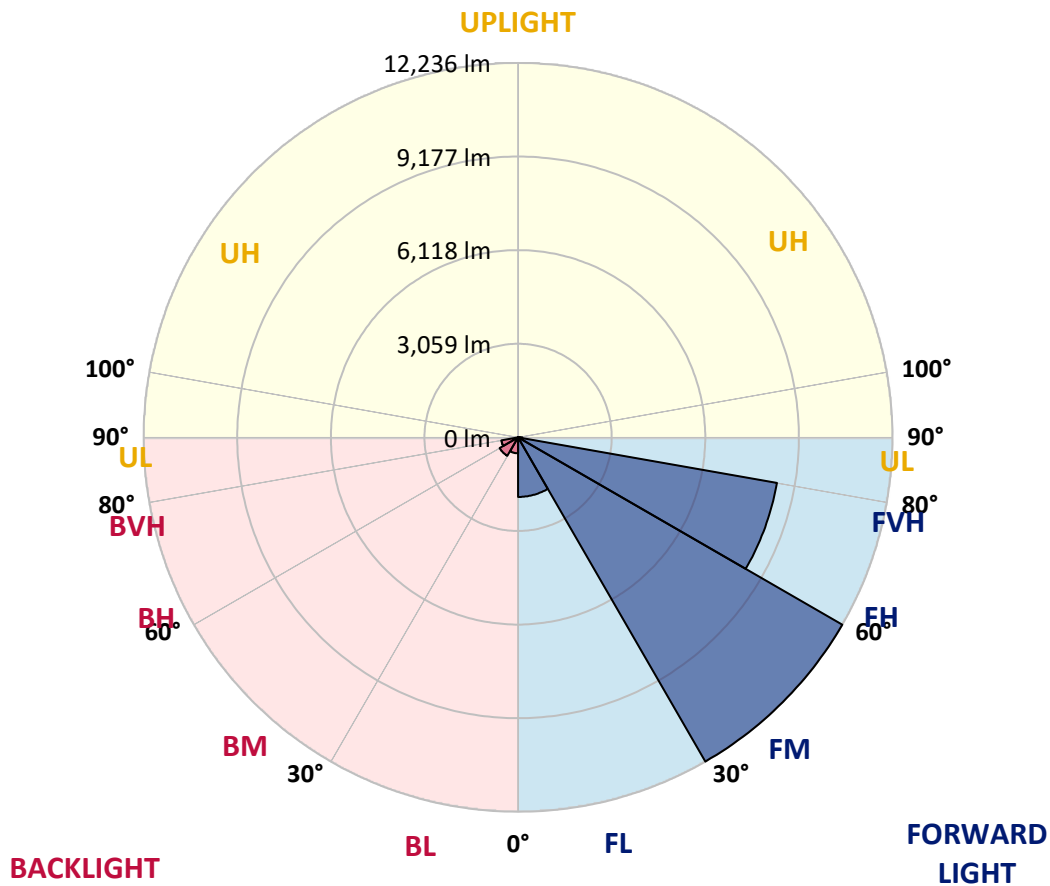
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1947.0	7.9			
FM (30°-60°)	12235.8	49.5			
FH (60°-80°)	8591.4	34.8			G4/12000
FVH (80°-90°)	141.1	0.6			G2/225
BL (0°-30°)	521.8	2.1	B2/1000		
BM (30°-60°)	696.7	2.8	B1/1000		
BH (60°-80°)	556.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.5	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°	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3
2.5°	3347.1	3368.4	3347.1	3351.8	3290.4	3262.0	3200.5	3115.4	3094.2	3039.8	2957.1
5°	3756.0	3774.9	3753.7	3748.9	3678.0	3626.0	3524.4	3377.8	3335.3	3228.9	3065.8
7.5°	3978.2	3990.0	3997.1	4008.9	3982.9	3940.4	3848.2	3666.2	3621.3	3448.7	3219.4
10°	4001.9	4011.3	4046.8	4117.7	4169.7	4195.7	4143.7	3975.8	3904.9	3737.1	3408.5
12.5°	3935.7	3949.8	4006.6	4124.8	4269.0	4401.3	4434.4	4287.9	4224.0	4008.9	3630.7
15°	3848.2	3860.0	3938.0	4098.8	4316.2	4559.7	4696.8	4633.0	4562.1	4337.5	3876.6
17.5°	3713.5	3730.0	3838.8	4056.2	4337.5	4685.0	4980.4	5001.7	4952.1	4708.6	4148.4
20°	3637.8	3649.6	3746.6	3971.1	4323.3	4777.2	5245.2	5446.1	5391.7	5136.5	4460.4
22.5°	3701.7	3711.1	3774.9	3949.8	4276.0	4829.2	5491.0	5890.5	5859.8	5595.0	4789.0
25°	4037.3	4068.0	4030.2	4060.9	4297.3	4857.5	5689.6	6334.9	6342.0	6074.9	5129.4
27.5°	4718.1	4677.9	4588.1	4434.4	4462.8	4933.2	5859.8	6753.3	6814.7	6542.9	5431.9
30°	5410.7	5387.0	5332.6	5093.9	4895.4	5101.0	6004.0	7181.1	7278.0	7003.8	5701.4
32.5°	6188.3	6212.0	6115.1	5829.0	5491.0	5441.4	6152.9	7587.7	7769.7	7526.2	6018.1
35°	7117.3	7124.4	6932.9	6616.2	6233.2	6004.0	6420.0	8036.8	8372.4	8192.8	6441.3
37.5°	8022.6	8065.2	7961.2	7462.4	7122.0	6703.6	6862.0	8613.6	9086.3	9015.4	6973.1
40°	8823.9	8890.1	8857.0	8374.8	7928.1	7575.9	7547.5	9289.6	9949.1	10029.4	7675.1
42.5°	9462.1	9504.7	9530.7	9187.9	8793.2	8594.6	8393.7	10074.4	10967.9	11296.4	8535.5
45°	10135.8	10150.0	10204.4	9972.7	9627.6	9644.2	9393.6	11027.0	12041.0	12700.5	9523.6
47.5°	10993.9	11041.1	11015.1	10771.7	10459.7	10646.4	10426.6	12007.9	13100.0	14199.1	10535.3
50°	12038.6	12088.3	12064.6	11781.0	11433.5	11511.5	11374.4	12960.5	14121.1	15612.7	11376.8
52.5°	12577.6	12617.8	12910.9	13038.5	12856.5	12360.1	12182.8	14007.7	14983.9	16775.6	12149.7
55°	12317.6	12345.9	12984.1	13523.1	14189.7	13693.3	12996.0	14816.1	15745.0	17683.3	12724.1
57.5°	11239.7	11393.3	12260.8	13173.3	14575.0	15009.9	14314.9	15695.4	16477.8	18314.4	13289.1
60°	9029.6	9022.5	10265.8	11903.9	13823.3	15371.5	16177.6	16884.4	17212.9	18799.0	14045.5
62.5°	4989.9	5034.8	6689.4	8847.6	11733.7	14435.5	17574.6	18938.5	18888.8	19645.2	15229.7
65°	2484.3	2574.1	3472.4	5067.9	7807.5	11929.9	17815.7	22072.8	21931.0	21637.9	17676.2
67.5°	1576.6	1612.1	2108.5	2945.2	4339.9	7668.0	16314.7	24410.6	24739.1	24001.6	20103.8
70°	1021.1	1080.2	1465.5	2013.9	2619.0	3952.2	11951.2	22895.4	23649.4	23741.6	18591.0
72.5°	555.5	598.0	936.1	1437.2	1891.0	1976.1	6713.1	17182.2	18394.8	20139.3	14544.2
75°	316.7	347.5	512.9	976.2	1387.5	1203.2	2976.0	11502.1	12275.0	14393.0	10421.8
77.5°	191.5	217.5	288.4	475.1	869.9	803.7	1125.2	7001.5	7493.1	8587.6	5469.7
80°	87.5	104.0	182.0	262.4	475.1	380.6	430.2	3264.4	3370.7	3524.4	1810.6
82.5°	40.2	47.3	82.7	156.0	269.5	219.8	165.5	754.0	1061.3	1004.6	460.9
85°	4.7	4.7	30.7	63.8	75.6	56.7	68.5	170.2	215.1	302.6	132.4
87.5°	0.0	0.0	2.4	2.4	4.7	7.1	14.2	21.3	30.7	49.6	33.1
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°	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3
2.5°	2919.2	2853.1	2794.0	2706.5	2647.4	2581.2	2536.3	2482.0	2460.7	2444.1	2420.5
5°	2985.4	2879.1	2734.9	2574.1	2441.8	2316.5	2200.7	2125.0	2058.8	2049.4	2016.3
7.5°	3094.2	2935.8	2692.3	2429.9	2205.4	1997.4	1834.3	1701.9	1635.7	1614.4	1576.6
10°	3238.4	3020.9	2628.5	2226.7	1902.8	1654.6	1470.3	1321.3	1217.3	1179.5	1151.2
12.5°	3399.1	3098.9	2526.9	1976.1	1607.4	1323.7	1089.7	931.3	865.1	841.5	820.2
15°	3583.5	3172.2	2366.1	1725.5	1319.0	973.9	808.4	739.9	711.5	704.4	697.3
17.5°	3760.7	3219.4	2174.7	1465.5	1014.1	756.4	678.4	652.4	645.3	638.2	633.5
20°	3961.7	3252.5	1950.1	1219.7	787.1	640.6	602.8	583.8	569.7	555.5	553.1
22.5°	4167.3	3252.5	1706.6	978.6	659.5	574.4	531.8	496.4	470.4	456.2	451.5
25°	4363.5	3207.6	1465.5	782.4	581.5	510.6	456.2	416.0	380.6	364.0	359.3
27.5°	4503.0	3091.8	1255.2	661.9	527.1	453.8	387.7	342.7	314.4	297.8	295.5
30°	4590.4	2919.2	1061.3	590.9	479.8	394.7	328.6	290.7	269.5	257.7	252.9
32.5°	4656.6	2706.5	888.8	541.3	434.9	342.7	286.0	255.3	236.4	226.9	224.6
35°	4789.0	2505.6	761.1	496.4	387.7	300.2	250.6	226.9	212.7	200.9	198.6
37.5°	4973.4	2337.8	659.5	456.2	342.7	267.1	226.9	205.6	193.8	182.0	179.6
40°	5245.2	2231.4	583.8	416.0	302.6	241.1	208.0	189.1	172.6	160.7	158.4
42.5°	5663.6	2181.8	534.2	375.8	267.1	217.5	191.5	167.8	151.3	139.5	137.1
45°	6162.3	2207.8	491.7	335.7	243.5	200.9	170.2	146.6	130.0	118.2	115.8
47.5°	6696.5	2299.9	456.2	297.8	219.8	184.4	151.3	125.3	111.1	99.3	96.9
50°	7254.4	2451.2	425.5	262.4	200.9	165.5	130.0	108.7	94.6	85.1	82.7
52.5°	7739.0	2656.9	394.7	236.4	184.4	146.6	113.5	94.6	80.4	70.9	68.5
55°	8202.3	2850.7	371.1	212.7	165.5	127.6	99.3	80.4	68.5	59.1	56.7
57.5°	8705.7	3056.3	342.7	191.5	148.9	113.5	87.5	68.5	59.1	49.6	47.3
60°	9438.5	3361.3	300.2	174.9	130.0	99.3	75.6	61.5	52.0	40.2	37.8
62.5°	10495.1	3916.8	252.9	151.3	111.1	85.1	63.8	52.0	42.5	33.1	28.4
65°	12471.2	4862.3	208.0	125.3	89.8	70.9	54.4	42.5	33.1	23.6	21.3
67.5°	13894.2	5108.1	167.8	101.6	73.3	54.4	44.9	33.1	23.6	16.5	14.2
70°	12147.4	3668.6	130.0	82.7	61.5	42.5	35.5	26.0	16.5	11.8	9.5
72.5°	9152.5	2396.9	96.9	63.8	47.3	35.5	26.0	21.3	14.2	9.5	7.1
75°	6450.7	1385.2	70.9	47.3	33.1	26.0	21.3	16.5	11.8	7.1	7.1
77.5°	3306.9	572.0	49.6	33.1	23.6	16.5	14.2	9.5	9.5	7.1	4.7
80°	1004.6	189.1	28.4	21.3	16.5	11.8	7.1	7.1	7.1	4.7	2.4
82.5°	229.3	61.5	16.5	16.5	11.8	9.5	7.1	2.4	2.4	0.0	0.0
85°	59.1	18.9	14.2	11.8	11.8	9.5	4.7	2.4	0.0	0.0	0.0
87.5°	21.3	11.8	11.8	11.8	9.5	7.1	4.7	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)