

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: P640535

Luminaire Tested: GWS-SA5E-722-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-722-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17343.2 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

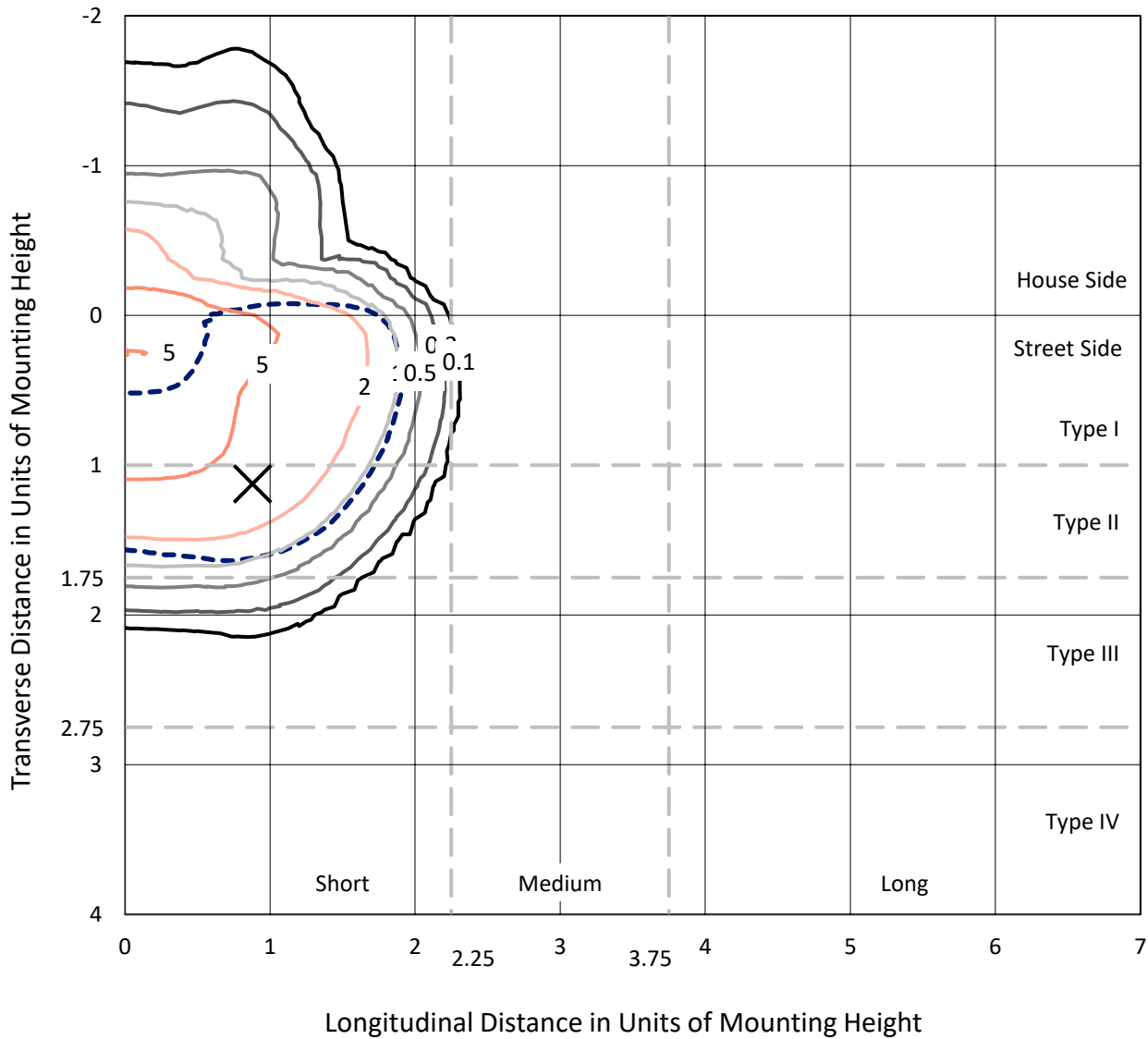
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

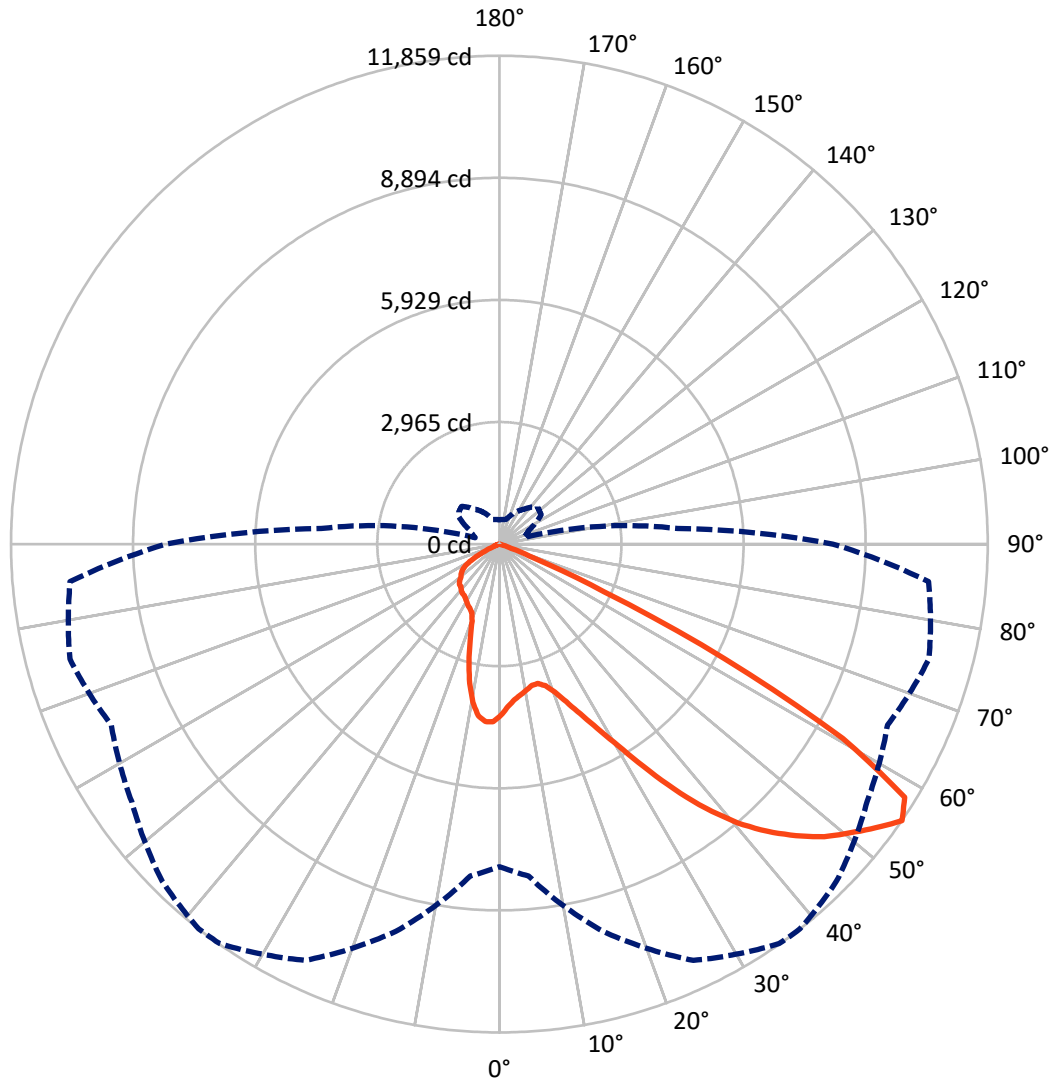
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3379.0	0.0	3379.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	13964.2	0.0	13964.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	17343.2	0.0	17343.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.6	2.2
10°-20°	1035.3	6.0
20°-30°	1776.6	10.2
30°-40°	2946.6	17.0
40°-50°	4331.6	25.0
50°-60°	5061.6	29.2
60°-70°	1715.7	9.9
70°-80°	87.7	0.5
80°-90°	3.5	0.0
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°	17343.2	100.0
0°-180°	17343.2	100.0

Coefficient of Utilization



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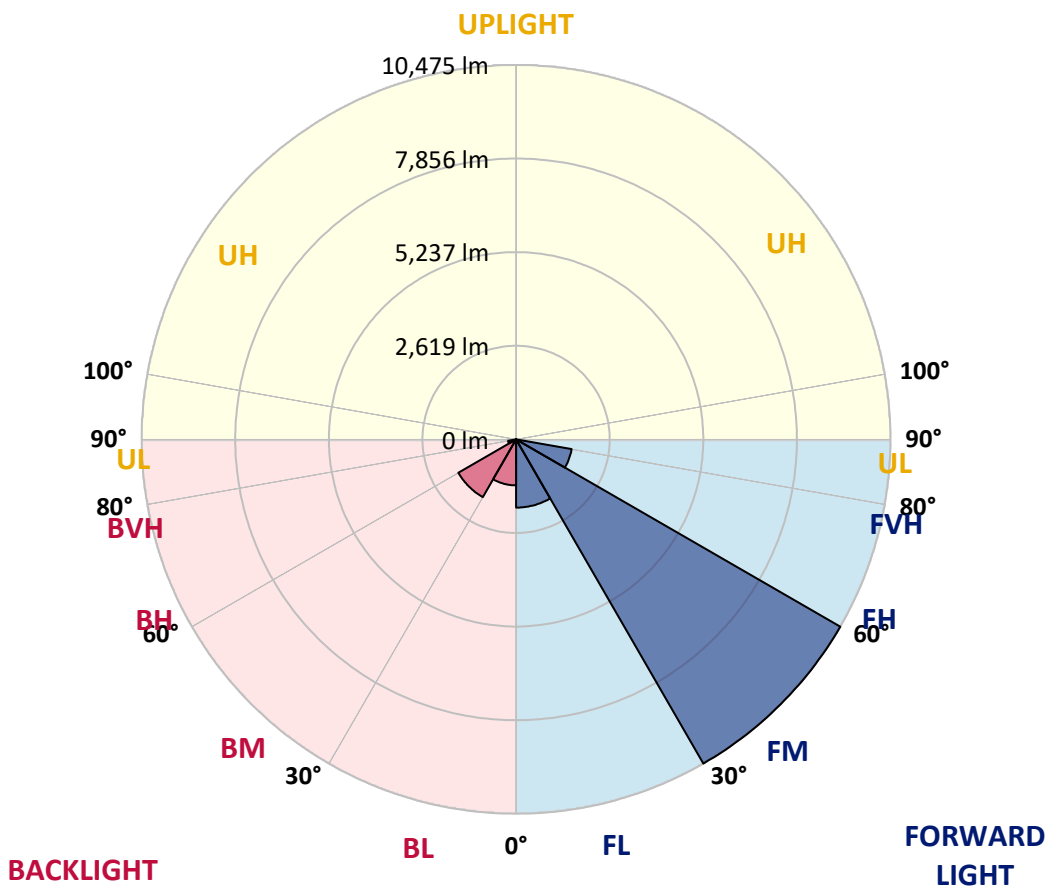
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1909.1	11.0			
FM (30°-60°)	10474.8	60.4			
FH (60°-80°)	1578.5	9.1			G1/1800
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	1287.4	7.4	B3/2500		
BM (30°-60°)	1865.1	10.8	B2/2500		
BH (60°-80°)	224.9	1.3	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4159.0	4159.0	4159.0	4159.0	4159.0	4159.0	4159.0	4159.0	4159.0	4159.0	4159.0
2.5°	3873.6	3865.6	3881.5	3913.2	3943.0	3952.9	3982.6	4024.2	4050.0	4111.5	4161.0
5°	3699.1	3695.2	3711.0	3738.8	3778.4	3792.3	3837.9	3907.3	3976.7	4083.7	4188.8
7.5°	3540.5	3538.5	3562.3	3623.8	3681.3	3699.1	3754.6	3839.9	3933.0	4097.6	4252.2
10°	3332.4	3334.4	3380.0	3467.2	3572.2	3607.9	3697.1	3820.0	3941.0	4153.1	4367.2
12.5°	3265.0	3268.9	3292.7	3360.1	3475.1	3520.7	3645.6	3831.9	3986.6	4232.4	4515.9
15°	3429.5	3429.5	3409.7	3417.6	3469.2	3510.8	3641.6	3871.6	4063.9	4327.5	4662.6
17.5°	3748.7	3736.8	3687.2	3619.8	3602.0	3615.9	3720.9	3956.8	4172.9	4438.5	4829.1
20°	4180.8	4184.8	4087.7	3946.9	3833.9	3831.9	3895.4	4107.5	4329.5	4571.4	5009.5
22.5°	4704.2	4688.3	4559.5	4367.2	4170.9	4155.1	4180.8	4337.4	4555.5	4781.5	5231.5
25°	5310.8	5302.9	5120.5	4862.8	4603.1	4565.4	4565.4	4720.0	4878.6	5080.8	5497.1
27.5°	5945.2	5945.2	5768.7	5471.4	5126.4	5059.0	5049.1	5231.5	5336.6	5376.2	5721.1
30°	6597.4	6589.4	6415.0	6109.7	5741.0	5671.6	5643.8	5778.6	5854.0	5735.0	6000.7
32.5°	7259.5	7273.4	7096.9	6813.4	6484.4	6438.8	6353.5	6353.5	6415.0	6248.5	6440.8
35°	7971.1	7967.2	7828.4	7636.1	7354.6	7303.1	7162.3	6942.3	7035.5	6962.1	7049.3
37.5°	8599.6	8629.3	8561.9	8419.2	8191.2	8139.7	7907.7	7509.3	7580.6	7695.6	7772.9
40°	9237.9	9261.7	9329.1	9283.5	8996.0	8900.9	8488.5	7834.4	7913.7	8308.2	8530.2
42.5°	9864.3	9876.2	10013.0	10088.3	9703.7	9537.2	8928.6	8032.6	8115.9	8787.9	9176.4
45°	10262.8	10288.5	10514.5	10744.5	10328.2	10100.2	9311.2	8286.3	8322.0	9120.9	9654.2
47.5°	10246.9	10306.4	10730.6	11148.9	10865.4	10619.6	9771.1	8692.7	8633.3	9434.1	9969.4
50°	9927.8	9999.1	10607.7	11271.8	11252.0	11024.0	10282.6	9281.5	9095.2	9711.7	10009.0
52.5°	9265.6	9471.8	10391.6	11287.7	11563.2	11448.2	10915.0	10074.5	9719.6	10110.1	10072.5
55°	7834.4	8088.1	9735.5	11152.9	11844.7	11858.6	11579.1	10901.1	10397.6	10796.0	10463.0
57.5°	5947.1	6149.3	7493.4	9927.8	11378.9	11606.8	11836.8	11337.2	10815.9	11263.9	10554.2
60°	3584.1	3818.1	4692.3	7285.2	9190.3	9578.9	10480.8	10383.7	9755.3	9947.6	8655.1
62.5°	1453.1	1576.0	2166.7	4014.3	5784.6	6147.4	7011.7	7158.4	7003.7	6807.5	5249.3
65°	531.3	580.8	868.3	1659.3	2660.4	2793.2	3249.1	3508.8	3722.9	3169.8	1952.6
67.5°	329.1	360.8	565.0	852.4	967.4	900.0	915.9	1092.3	1042.7	644.3	348.9
70°	243.8	269.6	442.1	590.7	390.5	301.3	204.2	218.1	196.3	172.5	170.5
72.5°	168.5	192.3	331.1	348.9	150.7	107.0	75.3	105.1	118.9	117.0	120.9
75°	111.0	128.9	208.1	136.8	37.7	29.7	25.8	55.5	71.4	71.4	73.3
77.5°	65.4	75.3	73.3	27.8	7.9	7.9	5.9	9.9	15.9	17.8	21.8
80°	7.9	5.9	4.0	4.0	4.0	4.0	4.0	4.0	5.9	5.9	5.9
82.5°	2.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	4.0	5.9	5.9
85°	0.0	0.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	5.9	5.9
87.5°	0.0	0.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	5.9	5.9
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°	4159.0	4159.0	4159.0	4159.0	4159.0	4159.0	4159.0	4159.0	4159.0	4159.0	4159.0
2.5°	4198.7	4184.8	4242.3	4283.9	4317.6	4333.5	4311.7	4309.7	4309.7	4266.1	4254.2
5°	4248.2	4254.2	4335.5	4371.1	4377.1	4357.3	4307.7	4274.0	4254.2	4208.6	4182.8
7.5°	4343.4	4363.2	4440.5	4434.6	4381.1	4289.9	4159.0	4057.9	3992.5	3921.1	3877.5
10°	4480.2	4517.8	4565.4	4482.2	4311.7	4079.7	3810.1	3617.8	3502.9	3421.6	3372.0
12.5°	4646.7	4684.4	4668.5	4472.2	4117.4	3703.1	3356.2	3078.6	2945.8	2872.5	2820.9
15°	4815.2	4839.0	4735.9	4353.3	3774.5	3217.4	2830.8	2555.3	2392.7	2333.3	2289.6
17.5°	4987.7	4981.7	4747.8	4119.4	3316.5	2670.3	2289.6	2101.3	2055.7	2045.8	2041.9
20°	5168.1	5114.5	4700.2	3784.4	2765.4	2129.1	1913.0	1924.9	2008.2	2047.8	2055.7
22.5°	5374.2	5239.4	4581.3	3330.4	2202.4	1774.2	1796.0	1913.0	2026.0	2079.5	2087.4
25°	5594.3	5354.4	4383.0	2747.6	1736.6	1631.5	1760.4	1895.2	2016.1	2081.5	2089.4
27.5°	5739.0	5382.2	4057.9	2160.8	1490.7	1576.0	1712.8	1841.6	1966.5	2037.9	2047.8
30°	5895.6	5370.3	3615.9	1665.2	1407.5	1528.4	1647.4	1764.3	1879.3	1958.6	1966.5
32.5°	6125.6	5362.3	3076.7	1352.0	1373.8	1490.7	1578.0	1675.1	1754.4	1800.0	1794.1
35°	6426.9	5352.4	2448.2	1219.2	1354.0	1461.0	1530.4	1576.0	1488.8	1461.0	1467.0
37.5°	6813.4	5376.2	1918.9	1163.7	1348.0	1453.1	1512.6	1381.7	1246.9	1195.4	1187.4
40°	7241.6	5437.7	1463.0	1141.9	1367.8	1472.9	1445.2	1229.1	1062.6	961.5	939.6
42.5°	7671.8	5505.1	1157.7	1133.9	1401.5	1528.4	1334.1	1118.1	868.3	810.8	802.9
45°	7991.0	5493.2	1001.1	1120.0	1431.3	1560.1	1304.4	959.5	775.1	749.3	751.3
47.5°	8151.5	5362.3	915.9	1088.3	1443.2	1528.4	1231.1	894.1	711.7	739.4	763.2
50°	8066.3	5023.3	836.6	1026.9	1417.4	1486.8	1114.1	844.5	680.0	794.9	848.5
52.5°	7963.2	4607.0	749.3	931.7	1355.9	1429.3	1068.5	830.6	660.1	767.2	806.8
55°	8100.0	4343.4	606.6	785.0	1235.0	1294.5	1032.8	828.6	614.5	596.7	590.7
57.5°	7907.7	3818.1	434.1	565.0	947.6	1024.9	1007.0	814.8	545.2	543.2	551.1
60°	6111.7	2329.3	297.4	358.8	580.8	654.2	913.9	779.1	469.8	432.2	434.1
62.5°	3473.1	991.2	204.2	222.0	297.4	352.9	697.8	707.7	434.1	412.3	434.1
65°	1209.3	354.8	158.6	148.7	164.5	188.3	400.4	547.1	394.5	356.8	360.8
67.5°	249.8	176.4	140.7	122.9	122.9	122.9	204.2	341.0	325.1	283.5	287.4
70°	158.6	150.7	122.9	105.1	101.1	93.2	117.0	188.3	224.0	206.2	208.1
72.5°	117.0	115.0	97.1	85.2	75.3	67.4	73.3	93.2	115.0	118.9	120.9
75°	71.4	73.3	63.4	53.5	47.6	41.6	43.6	43.6	43.6	39.6	43.6
77.5°	21.8	23.8	19.8	15.9	13.9	13.9	13.9	11.9	9.9	5.9	5.9
80°	5.9	5.9	5.9	5.9	5.9	4.0	4.0	2.0	2.0	0.0	0.0
82.5°	5.9	5.9	5.9	5.9	4.0	4.0	2.0	2.0	0.0	0.0	0.0
85°	5.9	5.9	5.9	5.9	4.0	4.0	2.0	2.0	0.0	0.0	0.0
87.5°	5.9	5.9	5.9	5.9	4.0	4.0	2.0	2.0	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)