

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: P640853

Luminaire Tested: GWS-SA5E-760-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-760-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22497.5 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

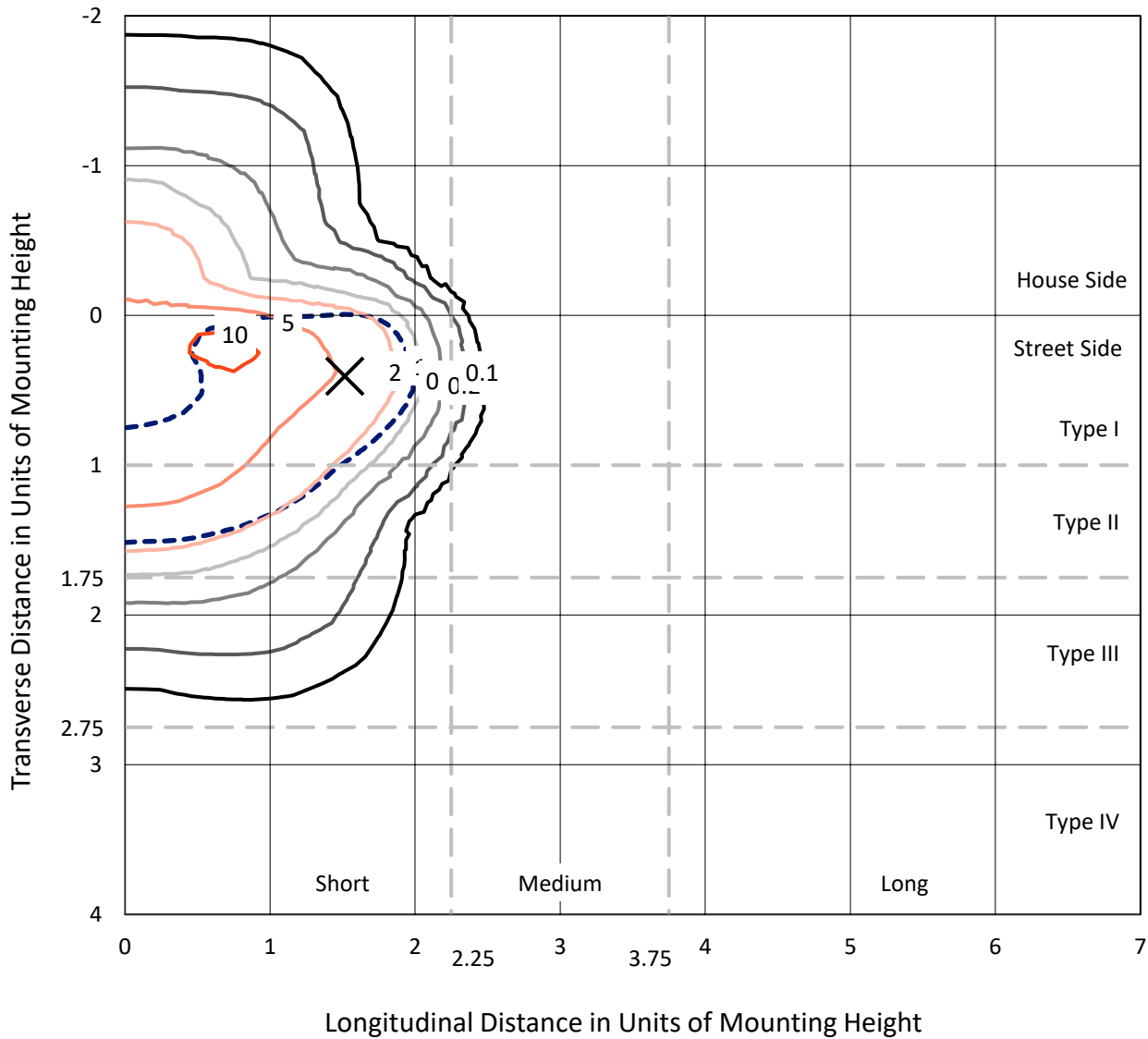
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

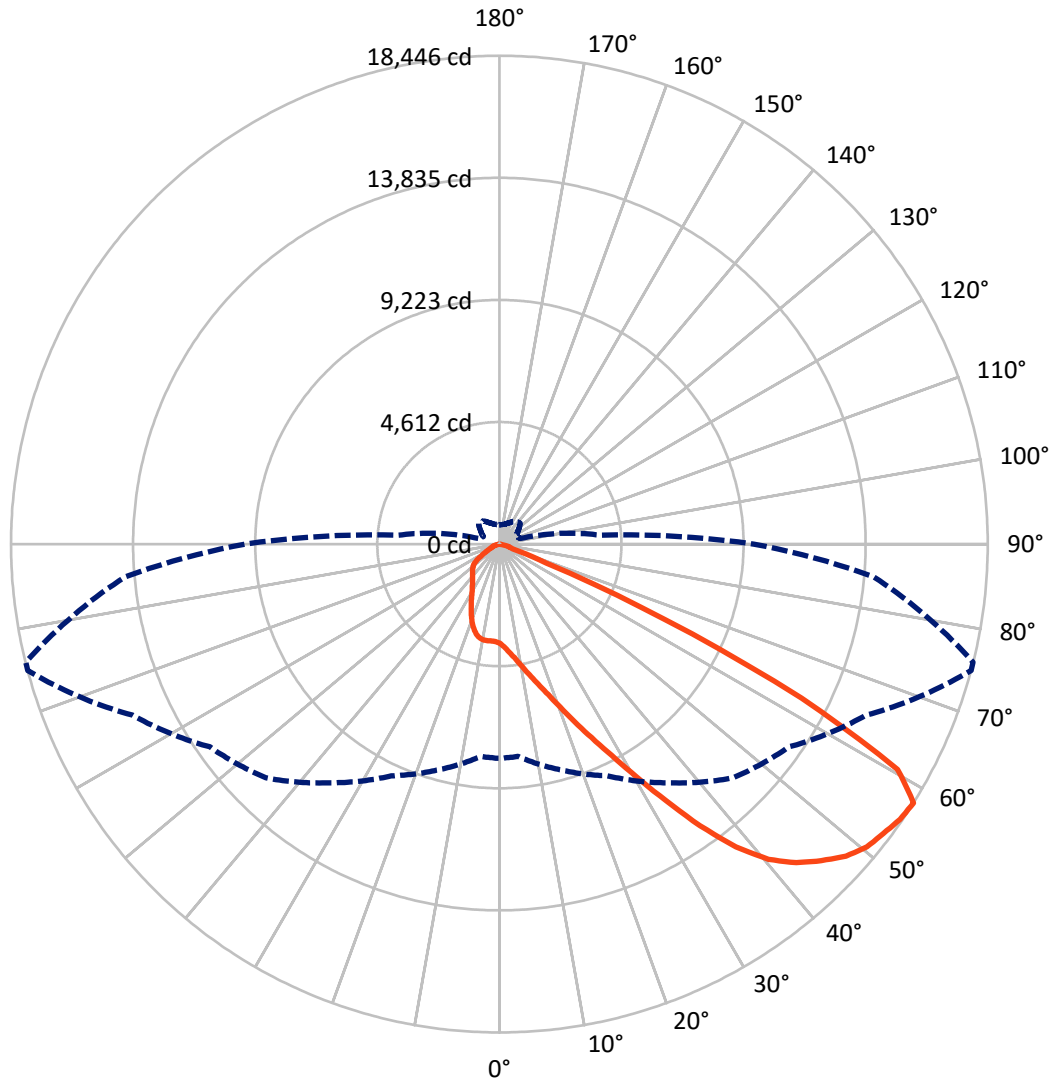
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3674.9	0.0	3674.9
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	18822.6	0.0	18822.6
	% Fixture	83.7	0.0	83.7
Total	Lumens	22497.5	0.0	22497.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.8	1.7
10°-20°	1240.3	5.5
20°-30°	2271.3	10.1
30°-40°	3768.4	16.8
40°-50°	5755.2	25.6
50°-60°	6467.0	28.7
60°-70°	2385.3	10.6
70°-80°	228.0	1.0
80°-90°	0.2	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°	22497.5	100.0
0°-180°	22497.5	100.0

Coefficient of Utilization



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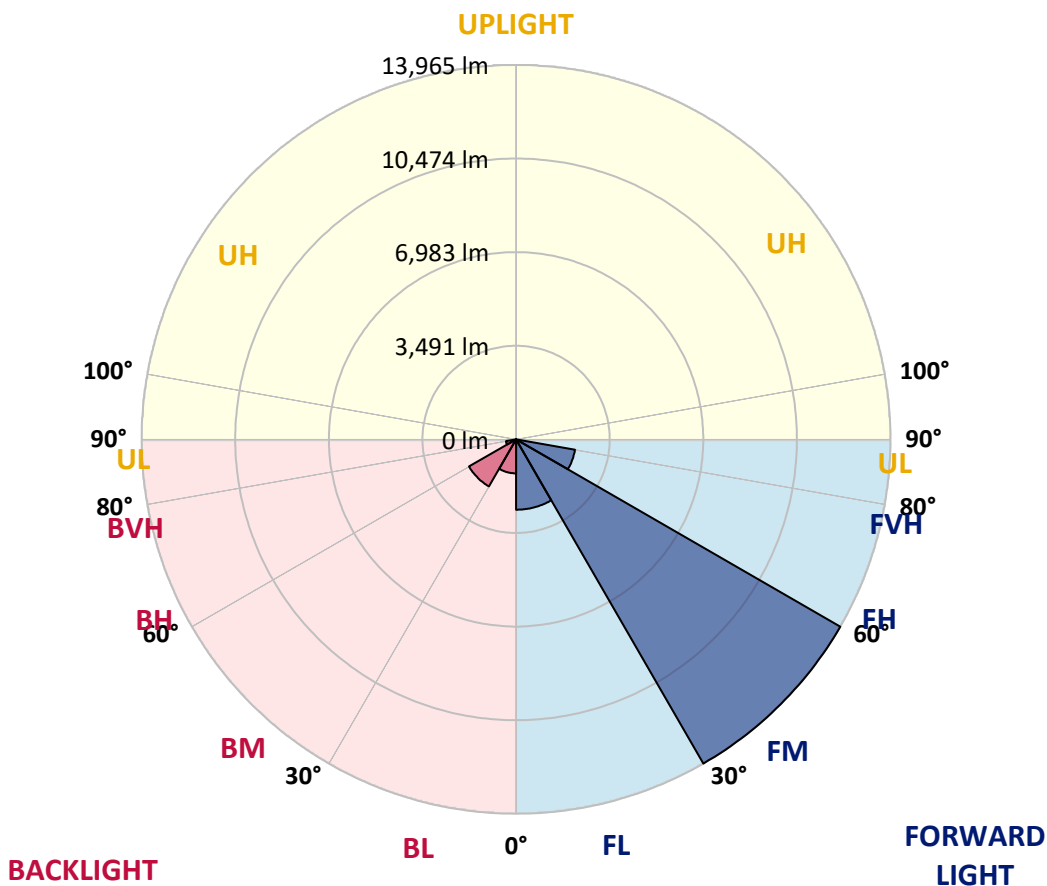
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2625.4	11.7			
FM (30°-60°)	13965.4	62.1			
FH (60°-80°)	2231.7	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1268.1	5.6	B3/2500		
BM (30°-60°)	2025.1	9.0	B2/2500		
BH (60°-80°)	381.6	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3752.3	3752.3	3752.3	3752.3	3752.3	3752.3	3752.3	3752.3	3752.3	3752.3	3752.3
2.5°	4192.1	4235.6	4222.0	4194.8	4178.5	4121.5	4086.2	3983.1	3909.7	3901.6	3833.7
5°	4721.6	4713.4	4702.6	4670.0	4642.8	4553.2	4447.3	4273.6	4118.8	4099.8	3955.9
7.5°	5012.1	5017.5	5022.9	5017.5	4998.5	4930.6	4813.9	4610.2	4374.0	4357.7	4129.7
10°	5131.5	5142.4	5169.6	5221.1	5267.3	5261.9	5194.0	4984.9	4694.4	4667.3	4360.5
12.5°	5188.6	5202.1	5245.6	5343.3	5468.2	5566.0	5576.8	5389.5	5069.1	5025.7	4634.7
15°	5267.3	5280.9	5335.2	5462.8	5644.7	5837.5	5962.4	5842.9	5484.5	5438.3	4936.1
17.5°	5302.6	5321.6	5400.3	5568.7	5804.9	6100.8	6383.2	6372.3	5975.9	5940.6	5286.3
20°	5370.5	5384.0	5454.6	5636.5	5921.6	6347.9	6823.0	6994.1	6576.0	6524.4	5709.9
22.5°	5585.0	5590.4	5623.0	5737.0	6003.1	6527.1	7271.0	7719.0	7284.6	7216.7	6185.0
25°	5935.2	5932.5	5946.1	5965.1	6160.6	6709.0	7702.7	8536.3	8096.4	8023.1	6722.6
27.5°	6380.5	6380.5	6413.1	6358.8	6437.5	6934.4	8129.0	9475.7	9041.3	8938.1	7311.8
30°	6904.5	6901.8	6977.8	6890.9	6915.4	7290.0	8587.9	10499.3	10181.6	10054.0	7990.5
32.5°	7615.9	7599.6	7686.5	7567.0	7485.5	7827.6	9147.2	11569.0	11547.3	11351.8	8843.1
35°	8514.6	8487.4	8514.6	8397.8	8251.2	8579.7	9880.3	12636.1	13062.4	12856.0	9858.5
37.5°	9407.8	9494.7	9524.6	9323.7	9204.2	9532.7	10762.7	13591.8	14509.5	14295.0	10914.7
40°	10461.3	10434.1	10537.3	10312.0	10235.9	10599.8	11626.1	14303.2	15655.3	15451.6	11854.1
42.5°	11237.8	11286.7	11414.3	11289.4	11229.7	11571.8	12351.0	14718.6	16450.8	16249.9	12524.8
45°	12169.1	12204.4	12253.3	12150.1	12087.6	12424.3	12875.0	14900.5	17056.3	16839.1	12975.5
47.5°	13176.4	13203.5	13203.5	12991.8	12790.8	12929.3	13225.3	15003.6	17612.9	17403.8	13309.4
50°	13898.6	13912.2	14031.6	13882.3	13445.2	13230.7	13385.4	15104.1	17982.1	17786.6	13418.0
52.5°	13257.8	13241.5	13635.2	13944.8	14061.5	13635.2	13662.4	15250.7	18161.3	17993.0	13504.9
55°	11164.5	11137.3	11691.2	12443.3	13472.3	14018.1	13996.3	15337.6	18359.5	18256.3	13819.9
57.5°	8093.7	8047.6	8818.6	9654.9	11004.3	12484.0	13352.9	15288.7	18446.4	18438.3	14186.4
60°	4865.5	4827.4	5555.1	6434.8	7477.4	8965.3	10407.0	13695.0	17284.3	17300.6	13233.4
62.5°	2994.8	3030.1	3687.1	4135.1	4523.4	4971.4	5804.9	9212.3	12804.4	12910.3	9299.2
65°	2014.6	2041.8	2649.9	3214.7	3214.7	2628.2	2256.2	4403.9	6831.2	6652.0	4398.5
67.5°	1352.1	1382.0	1862.6	2522.3	2617.4	1832.7	915.0	1314.1	1903.3	1846.3	1088.8
70°	795.5	828.1	1240.8	1729.5	1906.0	1276.1	610.9	556.6	540.3	524.0	423.6
72.5°	355.7	369.3	632.6	879.7	803.7	537.6	431.7	445.3	420.8	412.7	344.8
75°	108.6	114.0	162.9	190.1	192.8	192.8	260.6	350.2	331.2	334.0	266.1
77.5°	27.2	27.2	43.4	40.7	21.7	19.0	48.9	78.7	81.5	73.3	54.3
80°	0.0	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3752.3	3752.3	3752.3	3752.3	3752.3	3752.3	3752.3	3752.3	3752.3	3752.3	3752.3
2.5°	3803.9	3733.3	3687.1	3621.9	3575.8	3526.9	3483.5	3448.2	3429.2	3423.7	3426.5
5°	3890.7	3779.4	3670.8	3545.9	3459.0	3377.6	3312.4	3260.8	3236.4	3228.3	3228.3
7.5°	4023.8	3869.0	3676.2	3480.8	3334.1	3206.5	3130.5	3073.5	3051.8	3046.3	3030.1
10°	4197.5	3985.8	3668.1	3364.0	3157.7	3024.6	2970.3	2954.0	2962.2	2964.9	2962.2
12.5°	4406.6	4107.9	3616.5	3193.0	2970.3	2888.9	2894.3	2937.7	2986.6	3011.0	3016.5
15°	4629.2	4219.3	3499.8	2989.3	2810.1	2807.4	2886.2	2986.6	3081.6	3122.4	3133.2
17.5°	4879.0	4308.9	3320.6	2772.1	2671.7	2750.4	2891.6	3046.3	3174.0	3241.8	3255.4
20°	5153.3	4382.2	3092.5	2568.5	2549.5	2690.7	2886.2	3076.2	3233.7	3309.7	3323.3
22.5°	5438.3	4433.8	2829.1	2381.1	2438.2	2622.8	2834.6	3019.2	3168.5	3255.4	3266.3
25°	5764.2	4439.2	2560.3	2223.7	2335.0	2530.5	2709.7	2861.7	2986.6	3062.6	3070.8
27.5°	6049.2	4374.0	2321.4	2096.1	2240.0	2416.4	2535.9	2620.1	2707.0	2750.4	2753.1
30°	6377.8	4260.0	2096.1	1992.9	2142.2	2275.3	2335.0	2354.0	2362.1	2370.3	2359.4
32.5°	6768.7	4121.5	1927.7	1892.4	2030.9	2120.5	2136.8	2098.8	2052.6	1987.5	1971.2
35°	7249.3	3996.6	1789.3	1794.7	1908.7	1963.0	1949.4	1868.0	1778.4	1699.7	1686.1
37.5°	7770.6	3890.7	1683.4	1699.7	1775.7	1813.7	1773.0	1683.4	1642.6	1574.8	1577.5
40°	8232.2	3803.9	1588.3	1604.6	1639.9	1675.2	1610.1	1550.3	1626.3	1620.9	1626.3
42.5°	8560.7	3730.5	1506.9	1498.7	1523.2	1547.6	1498.7	1468.9	1596.5	1561.2	1580.2
45°	8753.5	3662.7	1439.0	1390.1	1428.1	1471.6	1439.0	1401.0	1444.4	1281.5	1268.0
47.5°	8883.8	3624.7	1379.3	1284.2	1352.1	1428.1	1360.3	1268.0	1205.5	1064.3	1053.5
50°	8897.4	3605.7	1308.7	1175.6	1262.5	1344.0	1265.2	1137.6	1048.0	985.6	977.4
52.5°	8968.0	3643.7	1210.9	1037.2	1132.2	1262.5	1208.2	1080.6	958.4	904.1	893.3
55°	9282.9	3803.9	1048.0	847.1	985.6	1200.1	1162.1	963.9	847.1	814.5	806.4
57.5°	9608.7	3836.4	825.4	670.6	858.0	1110.5	1061.6	887.8	773.8	735.8	727.6
60°	8786.1	3160.4	619.0	553.9	757.5	1026.3	982.9	841.7	708.6	662.5	654.3
62.5°	5772.3	1707.8	491.4	469.7	638.0	868.8	896.0	760.2	632.6	583.7	581.0
65°	2660.8	792.8	377.4	372.0	499.6	692.4	771.1	665.2	534.9	491.4	491.4
67.5°	724.9	393.7	295.9	274.2	339.4	464.3	562.0	496.9	380.1	328.5	325.8
70°	361.1	317.7	266.1	236.2	244.4	287.8	331.2	276.9	192.8	157.5	154.8
72.5°	295.9	260.6	225.4	200.9	184.6	176.5	171.1	138.5	89.6	67.9	65.2
75°	219.9	187.3	160.2	130.3	111.3	103.2	92.3	67.9	38.0	21.7	19.0
77.5°	48.9	46.2	43.4	32.6	29.9	24.4	19.0	13.6	5.4	0.0	0.0
80°	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)