

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: P640865

Luminaire Tested: GWS-SA5E-760-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640865
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23754.6 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

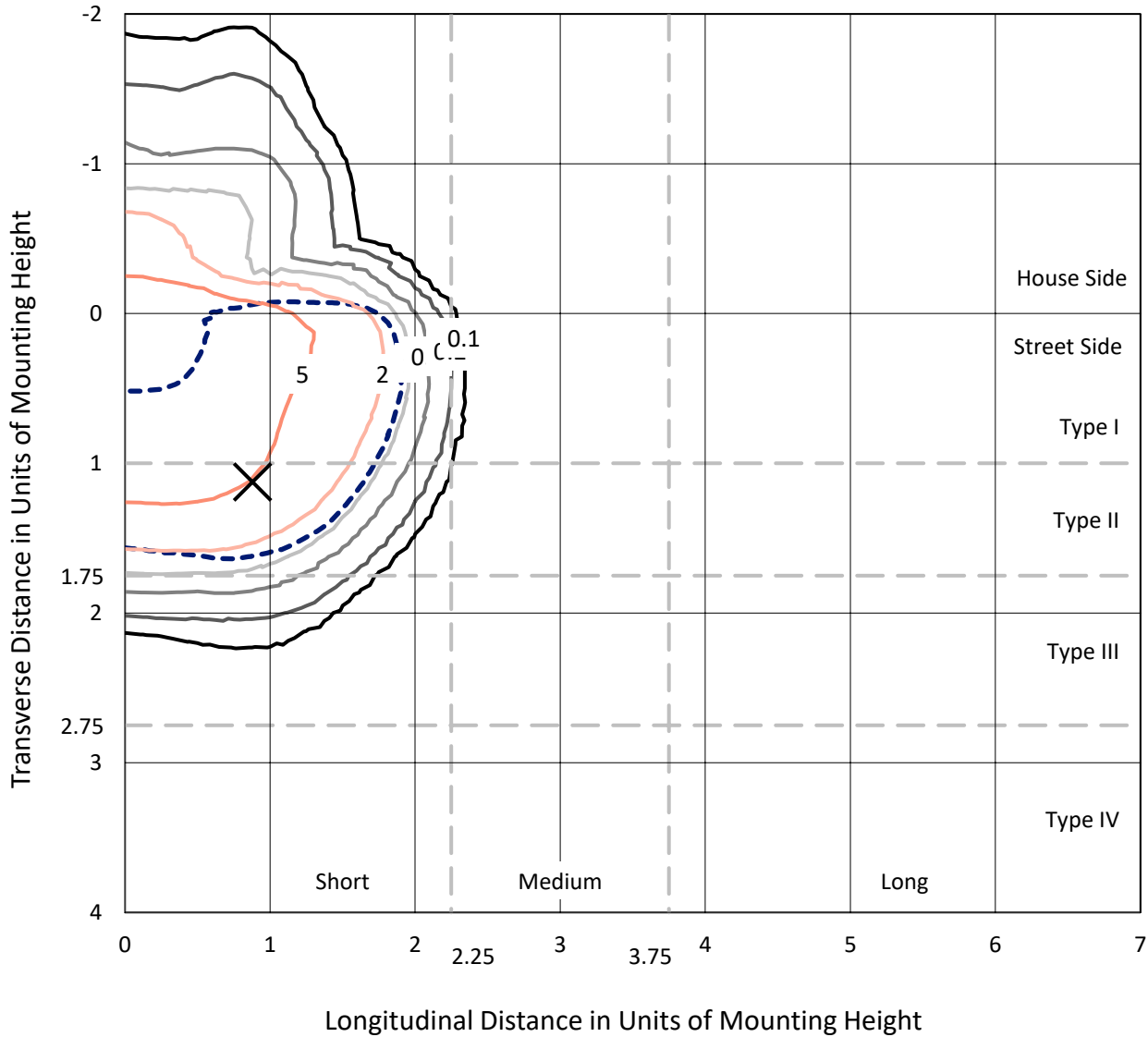
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

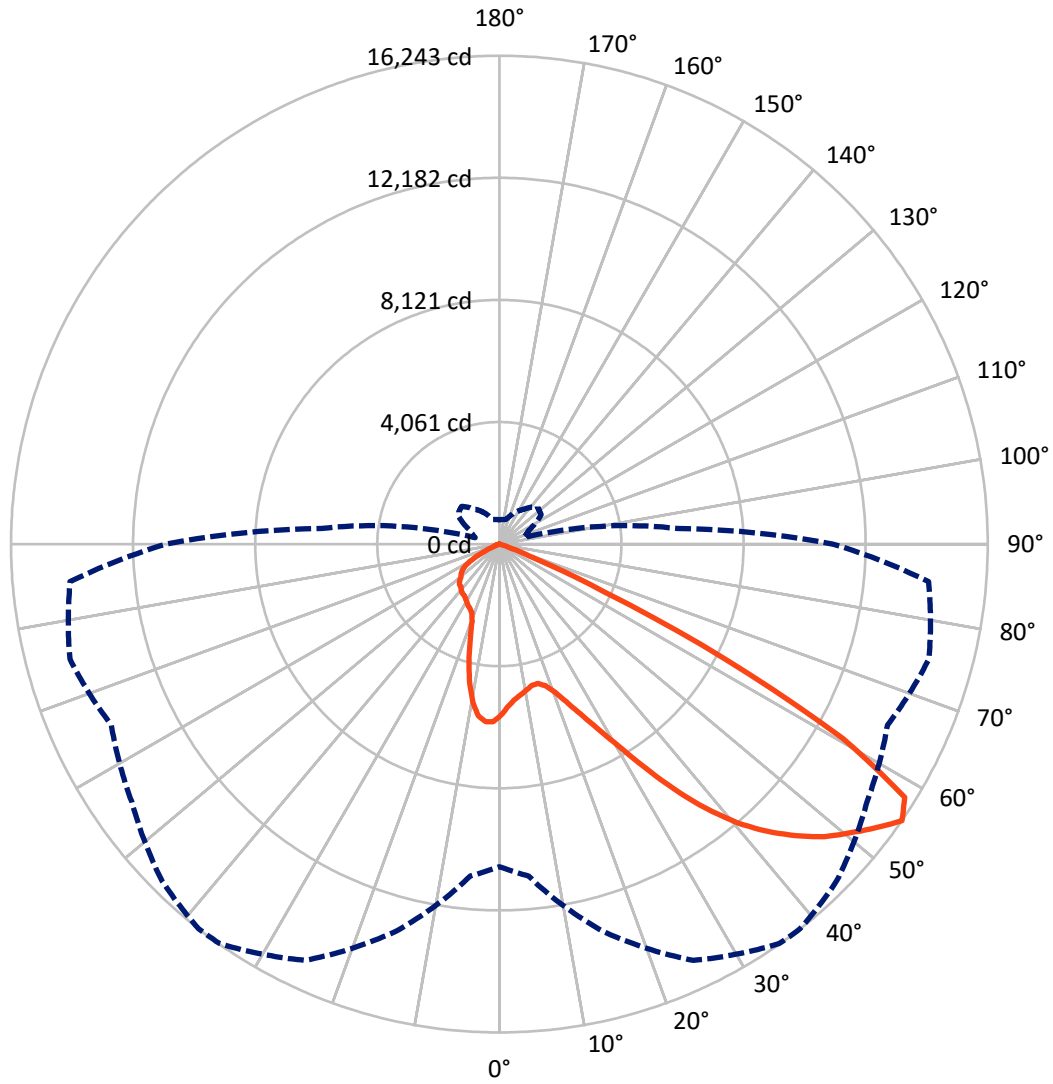
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	4628.1	0.0	4628.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	19126.4	0.0	19126.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	23754.6	0.0	23754.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.7	2.2
10°-20°	1418.0	6.0
20°-30°	2433.4	10.2
30°-40°	4035.9	17.0
40°-50°	5932.9	25.0
50°-60°	6932.8	29.2
60°-70°	2350.0	9.9
70°-80°	120.1	0.5
80°-90°	4.7	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°	23754.6	100.0
0°-180°	23754.6	100.0

Coefficient of Utilization



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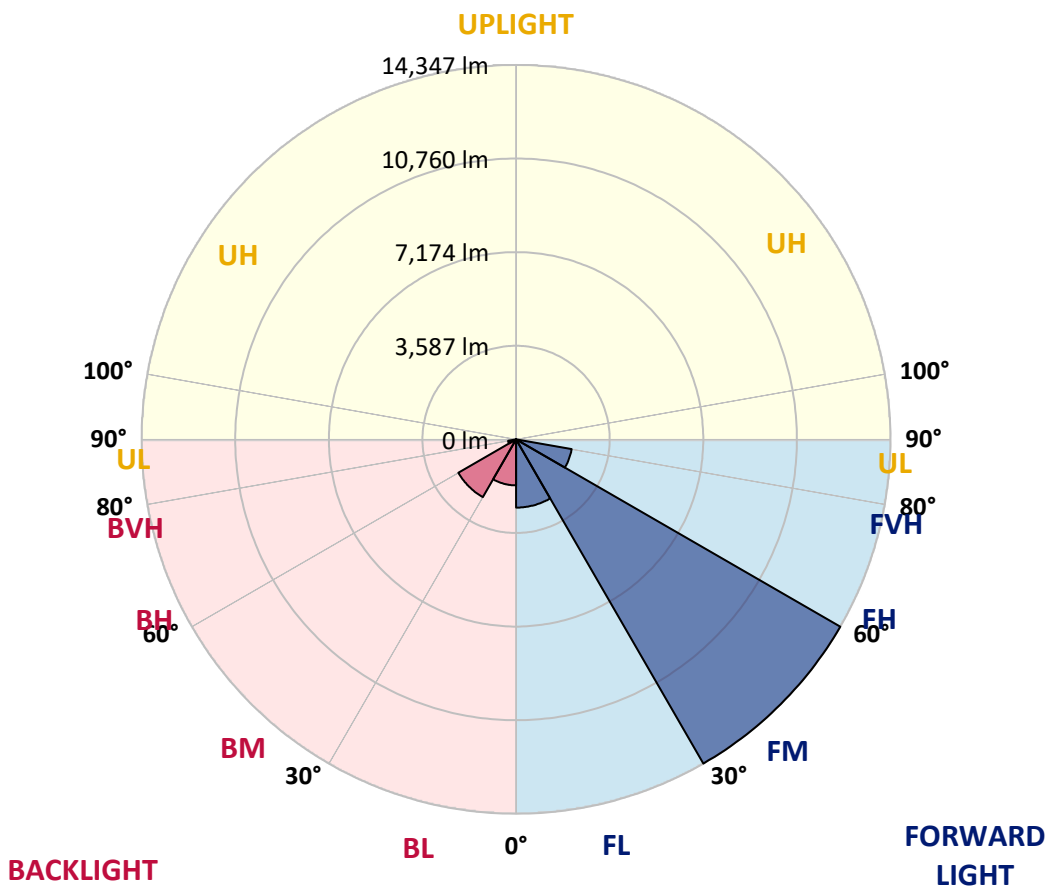
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2614.8	11.0			
FM (30°-60°)	14347.1	60.4			
FH (60°-80°)	2162.0	9.1			G2/5000
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1763.3	7.4	B3/2500		
BM (30°-60°)	2554.5	10.8	B3/5000		
BH (60°-80°)	308.1	1.3	B1/500		G1/500
BVH (80°-90°)	2.2	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°	38°	45°	55°	65°	75°	85°
0°	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5
2.5°	5305.5	5294.7	5316.4	5359.8	5400.6	5414.2	5454.9	5511.9	5547.2	5631.4	5699.3
5°	5066.6	5061.2	5082.9	5120.9	5175.2	5194.2	5256.7	5351.7	5446.7	5593.4	5737.3
7.5°	4849.4	4846.7	4879.3	4963.4	5042.2	5066.6	5142.6	5259.4	5387.0	5612.4	5824.2
10°	4564.3	4567.0	4629.5	4748.9	4892.8	4941.7	5063.9	5232.2	5397.9	5688.4	5981.6
12.5°	4472.0	4477.4	4510.0	4602.3	4759.8	4822.2	4993.3	5248.5	5460.3	5797.0	6185.3
15°	4697.3	4697.3	4670.2	4681.0	4751.6	4808.7	4987.9	5302.8	5566.2	5927.3	6386.2
17.5°	5134.5	5118.2	5050.3	4958.0	4933.6	4952.6	5096.5	5419.6	5715.5	6079.4	6614.3
20°	5726.4	5731.8	5598.8	5406.0	5251.2	5248.5	5335.4	5625.9	5930.0	6261.3	6861.4
22.5°	6443.2	6421.5	6245.0	5981.6	5712.8	5691.1	5726.4	5940.9	6239.6	6549.1	7165.5
25°	7274.1	7263.2	7013.4	6660.4	6304.7	6253.2	6253.2	6464.9	6682.2	6959.1	7529.3
27.5°	8142.9	8142.9	7901.3	7494.0	7021.6	6929.2	6915.7	7165.5	7309.4	7363.7	7836.1
30°	9036.3	9025.4	8786.5	8368.3	7863.3	7768.2	7730.2	7914.9	8018.0	7855.1	8219.0
32.5°	9943.1	9962.1	9720.5	9332.2	8881.5	8819.0	8702.3	8702.3	8786.5	8558.4	8821.8
35°	10917.9	10912.5	10722.4	10459.0	10073.5	10002.9	9810.1	9508.7	9636.3	9535.9	9655.3
37.5°	11778.6	11819.4	11727.0	11531.5	11219.3	11148.7	10831.0	10285.3	10383.0	10540.5	10646.4
40°	12652.9	12685.5	12777.8	12715.4	12321.7	12191.3	11626.6	10730.6	10839.2	11379.5	11683.6
42.5°	13510.9	13527.2	13714.6	13817.8	13291.0	13062.9	12229.4	11002.1	11116.1	12036.6	12568.8
45°	14056.7	14092.0	14401.5	14716.5	14146.3	13834.1	12753.4	11349.6	11398.5	12492.7	13223.1
47.5°	14035.0	14116.4	14697.5	15270.4	14882.1	14545.4	13383.3	11906.2	11824.8	12921.7	13654.8
50°	13597.8	13695.6	14529.2	15438.8	15411.6	15099.3	14083.9	12712.7	12457.4	13301.9	13709.2
52.5°	12690.9	12973.3	14233.2	15460.5	15837.9	15680.4	14950.0	13798.8	13312.7	13847.6	13796.0
55°	10730.6	11078.1	13334.5	15275.8	16223.4	16242.5	15859.6	14931.0	14241.3	14787.1	14330.9
57.5°	8145.7	8422.6	10263.5	13597.8	15585.4	15897.6	16212.6	15528.4	14814.2	15427.9	14455.8
60°	4909.1	5229.5	6426.9	9978.4	12587.8	13120.0	14355.4	14222.3	13361.6	13625.0	11854.7
62.5°	1990.3	2158.6	2967.7	5498.3	7923.0	8419.9	9603.7	9804.7	9592.9	9324.1	7189.9
65°	727.7	795.6	1189.3	2272.6	3643.8	3825.7	4450.2	4805.9	5099.2	4341.6	2674.5
67.5°	450.7	494.2	773.8	1167.5	1325.0	1232.7	1254.4	1496.1	1428.2	882.4	477.9
70°	334.0	369.3	605.5	809.1	534.9	412.7	279.7	298.7	268.8	236.2	233.5
72.5°	230.8	263.4	453.4	477.9	206.4	146.6	103.2	143.9	162.9	160.2	165.6
75°	152.1	176.5	285.1	187.4	51.6	40.7	35.3	76.0	97.7	97.7	100.5
77.5°	89.6	103.2	100.5	38.0	10.9	10.9	8.1	13.6	21.7	24.4	29.9
80°	10.9	8.1	5.4	5.4	5.4	5.4	5.4	5.4	8.1	8.1	8.1
82.5°	2.7	2.7	2.7	5.4	5.4	5.4	5.4	5.4	5.4	8.1	8.1
85°	0.0	0.0	2.7	2.7	5.4	5.4	5.4	5.4	5.4	8.1	8.1
87.5°	0.0	0.0	2.7	2.7	5.4	5.4	5.4	5.4	5.4	8.1	8.1
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°	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5
2.5°	5750.8	5731.8	5810.6	5867.6	5913.8	5935.5	5905.6	5902.9	5902.9	5843.2	5826.9
5°	5818.7	5826.9	5938.2	5987.1	5995.2	5968.1	5900.2	5854.0	5826.9	5764.4	5729.1
7.5°	5949.1	5976.2	6082.1	6074.0	6000.6	5875.7	5696.5	5558.1	5468.5	5370.7	5311.0
10°	6136.4	6188.0	6253.2	6139.1	5905.6	5587.9	5218.7	4955.3	4797.8	4686.5	4618.6
12.5°	6364.5	6416.1	6394.3	6125.5	5639.5	5072.0	4596.9	4216.7	4034.8	3934.4	3863.8
15°	6595.3	6627.9	6486.7	5962.6	5169.8	4406.8	3877.3	3499.9	3277.3	3195.8	3136.1
17.5°	6831.5	6823.4	6503.0	5642.2	4542.6	3657.4	3136.1	2878.1	2815.7	2802.1	2796.7
20°	7078.6	7005.3	6437.8	5183.4	3787.7	2916.1	2620.2	2636.5	2750.5	2804.8	2815.7
22.5°	7361.0	7176.3	6274.9	4561.6	3016.6	2430.1	2460.0	2620.2	2775.0	2848.3	2859.1
25°	7662.4	7333.8	6003.4	3763.3	2378.5	2234.6	2411.1	2595.8	2761.4	2851.0	2861.8
27.5°	7860.6	7371.8	5558.1	2959.6	2041.8	2158.6	2346.0	2522.4	2693.5	2791.2	2804.8
30°	8075.1	7355.5	4952.6	2280.8	1927.8	2093.4	2256.3	2416.5	2574.0	2682.6	2693.5
32.5°	8390.0	7344.7	4214.0	1851.8	1881.6	2041.8	2161.3	2294.4	2403.0	2465.4	2457.3
35°	8802.7	7331.1	3353.3	1669.9	1854.5	2001.1	2096.2	2158.6	2039.1	2001.1	2009.3
37.5°	9332.2	7363.7	2628.3	1593.8	1846.4	1990.3	2071.7	1892.5	1707.9	1637.3	1626.4
40°	9918.7	7447.9	2003.8	1564.0	1873.5	2017.4	1979.4	1683.4	1455.4	1316.9	1287.0
42.5°	10507.9	7540.2	1585.7	1553.1	1919.7	2093.4	1827.3	1531.4	1189.3	1110.5	1099.7
45°	10945.1	7523.9	1371.2	1534.1	1960.4	2136.9	1786.6	1314.2	1061.7	1026.4	1029.1
47.5°	11165.0	7344.7	1254.4	1490.7	1976.7	2093.4	1686.2	1224.6	974.8	1012.8	1045.4
50°	11048.2	6880.4	1145.8	1406.5	1941.4	2036.4	1526.0	1156.7	931.3	1088.8	1162.1
52.5°	10907.0	6310.2	1026.4	1276.2	1857.2	1957.7	1463.5	1137.7	904.2	1050.8	1105.1
55°	11094.4	5949.1	830.9	1075.2	1691.6	1773.0	1414.6	1135.0	841.7	817.3	809.1
57.5°	10831.0	5229.5	594.6	773.8	1297.9	1403.8	1379.3	1116.0	746.7	744.0	754.8
60°	8371.0	3190.4	407.3	491.5	795.6	896.0	1251.7	1067.1	643.5	591.9	594.6
62.5°	4757.1	1357.6	279.7	304.1	407.3	483.3	955.8	969.3	594.6	564.8	594.6
65°	1656.3	486.0	217.2	203.6	225.4	257.9	548.5	749.4	540.3	488.7	494.2
67.5°	342.1	241.7	192.8	168.3	168.3	168.3	279.7	467.0	445.3	388.3	393.7
70°	217.2	206.4	168.3	143.9	138.5	127.6	160.2	257.9	306.8	282.4	285.1
72.5°	160.2	157.5	133.0	116.8	103.2	92.3	100.5	127.6	157.5	162.9	165.6
75°	97.7	100.5	86.9	73.3	65.2	57.0	59.7	59.7	59.7	54.3	59.7
77.5°	29.9	32.6	27.2	21.7	19.0	19.0	19.0	16.3	13.6	8.1	8.1
80°	8.1	8.1	8.1	8.1	8.1	5.4	5.4	2.7	2.7	0.0	0.0
82.5°	8.1	8.1	8.1	8.1	5.4	5.4	2.7	2.7	0.0	0.0	0.0
85°	8.1	8.1	8.1	8.1	5.4	5.4	2.7	2.7	0.0	0.0	0.0
87.5°	8.1	8.1	8.1	8.1	5.4	5.4	2.7	2.7	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)