

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: P643163

Luminaire Tested: GWS-SA6E-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643163
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-SAGE-735-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26225.7 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

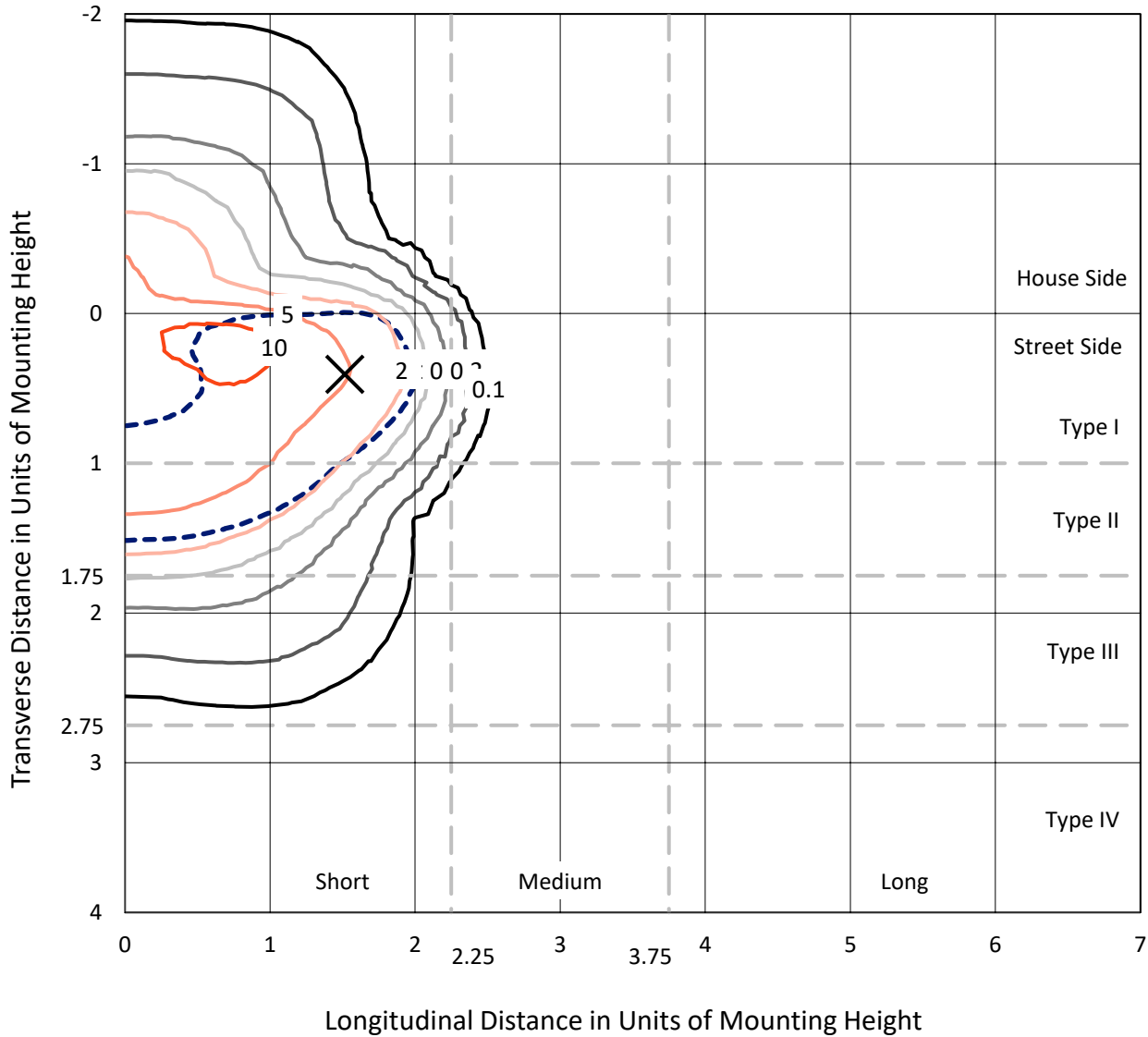
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

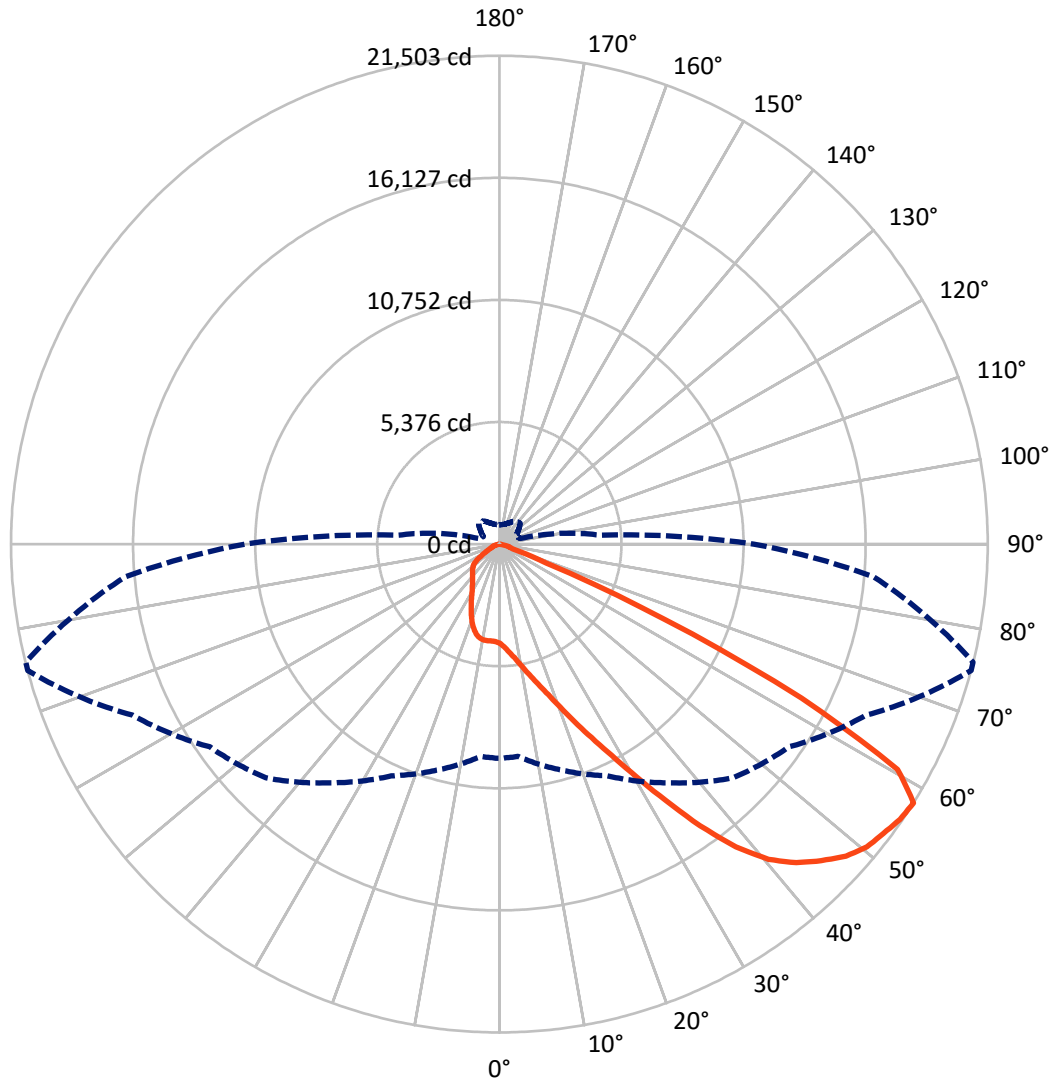
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	4283.9	0.0	4283.9
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	21941.8	0.0	21941.8
	% Fixture	83.7	0.0	83.7
Total	Lumens	26225.7	0.0	26225.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.1	1.7
10°-20°	1445.9	5.5
20°-30°	2647.7	10.1
30°-40°	4392.8	16.8
40°-50°	6708.9	25.6
50°-60°	7538.6	28.7
60°-70°	2780.6	10.6
70°-80°	265.8	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°	26225.7	100.0
0°-180°	26225.7	100.0

Coefficient of Utilization



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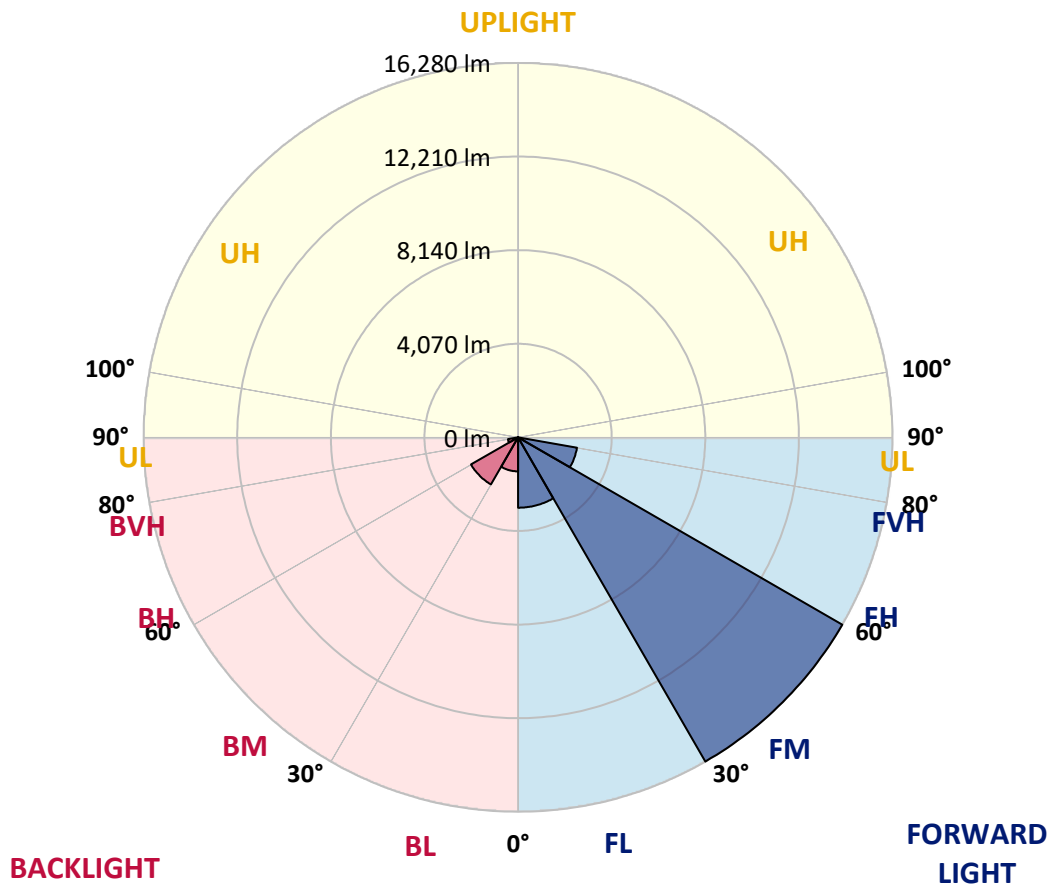
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3060.5	11.7			
FM (30°-60°)	16279.7	62.1			
FH (60°-80°)	2601.5	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1478.2	5.6	B3/2500		
BM (30°-60°)	2360.7	9.0	B2/2500		
BH (60°-80°)	444.9	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°	4374.1	4374.1	4374.1	4374.1	4374.1	4374.1	4374.1	4374.1	4374.1	4374.1	4374.1
2.5°	4886.8	4937.5	4921.6	4890.0	4871.0	4804.5	4763.4	4643.1	4557.7	4548.2	4469.0
5°	5504.0	5494.5	5481.8	5443.9	5412.2	5307.8	5184.3	4981.8	4801.4	4779.2	4611.5
7.5°	5842.7	5849.0	5855.3	5849.0	5826.8	5747.7	5611.6	5374.2	5098.9	5079.9	4814.0
10°	5981.9	5994.6	6026.2	6086.4	6140.2	6133.8	6054.7	5811.0	5472.3	5440.7	5083.1
12.5°	6048.4	6064.2	6114.9	6228.8	6374.4	6488.3	6501.0	6282.6	5909.1	5858.5	5402.7
15°	6140.2	6156.0	6219.3	6368.1	6580.1	6804.8	6950.4	6811.2	6393.4	6339.6	5754.0
17.5°	6181.3	6203.5	6295.3	6491.5	6766.8	7111.8	7441.0	7428.3	6966.2	6925.1	6162.3
20°	6260.4	6276.3	6358.6	6570.6	6902.9	7399.9	7953.7	8153.1	7665.7	7605.6	6656.1
22.5°	6510.5	6516.8	6554.8	6687.7	6997.9	7608.7	8476.0	8998.2	8491.8	8412.7	7210.0
25°	6918.8	6915.6	6931.4	6953.6	7181.5	7820.8	8979.2	9950.9	9438.1	9352.7	7836.6
27.5°	7437.8	7437.8	7475.8	7412.5	7504.3	8083.5	9476.1	11046.0	10539.6	10419.3	8523.4
30°	8048.7	8045.5	8134.1	8032.9	8061.4	8498.1	10011.0	12239.2	11868.9	11720.1	9314.7
32.5°	8877.9	8858.9	8960.2	8821.0	8726.0	9124.8	10663.0	13486.2	13460.9	13233.0	10308.5
35°	9925.6	9893.9	9925.6	9789.5	9618.5	10001.5	11517.6	14730.1	15227.0	14986.5	11492.3
37.5°	10966.9	11068.1	11103.0	10868.7	10729.5	11112.4	12546.2	15844.2	16914.0	16663.9	12723.5
40°	12194.9	12163.2	12283.5	12020.8	11932.2	12356.3	13552.7	16673.4	18249.6	18012.2	13818.6
42.5°	13100.1	13157.1	13305.8	13160.2	13090.6	13489.4	14397.8	17157.7	19177.0	18942.7	14600.3
45°	14185.7	14226.8	14283.8	14163.5	14090.7	14483.2	15008.6	17369.7	19882.8	19629.6	15125.7
47.5°	15359.9	15391.6	15391.6	15144.7	14910.5	15071.9	15416.9	17490.0	20531.6	20287.9	15515.0
50°	16201.8	16217.7	16356.9	16182.8	15673.3	15423.2	15603.6	17607.1	20962.0	20734.2	15641.6
52.5°	15454.9	15435.9	15894.8	16255.6	16391.7	15894.8	15926.5	17778.0	21170.9	20974.7	15742.9
55°	13014.6	12983.0	13628.7	14505.4	15704.9	16341.1	16315.8	17879.3	21402.0	21281.7	16110.0
57.5°	9435.0	9381.2	10280.0	11254.9	12827.9	14552.8	15565.7	17822.3	21503.3	21493.8	16537.3
60°	5671.7	5627.4	6475.7	7501.1	8716.5	10451.0	12131.6	15964.4	20148.6	20167.6	15426.4
62.5°	3491.0	3532.2	4298.1	4820.4	5273.0	5795.2	6766.8	10739.0	14926.3	15049.8	10840.3
65°	2348.5	2380.1	3089.1	3747.4	3747.4	3063.8	2630.1	5133.7	7963.2	7754.3	5127.4
67.5°	1576.2	1611.0	2171.2	2940.3	3051.1	2136.4	1066.6	1531.9	2218.7	2152.2	1269.2
70°	927.4	965.3	1446.4	2016.1	2221.9	1487.6	712.1	648.8	629.8	610.9	493.7
72.5°	414.6	430.4	737.5	1025.5	936.9	626.7	503.2	519.1	490.6	481.1	402.0
75°	126.6	132.9	189.9	221.6	224.7	224.7	303.8	408.3	386.1	389.3	310.2
77.5°	31.7	31.7	50.6	47.5	25.3	22.2	57.0	91.8	95.0	85.5	63.3
80°	0.0	0.0	0.0	0.0	0.0	3.2	3.2	3.2	3.2	3.2	3.2
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°	4374.1	4374.1	4374.1	4374.1	4374.1	4374.1	4374.1	4374.1	4374.1	4374.1	4374.1
2.5°	4434.2	4351.9	4298.1	4222.2	4168.4	4111.4	4060.7	4019.6	3997.4	3991.1	3994.3
5°	4535.5	4405.7	4279.1	4133.5	4032.3	3937.3	3861.3	3801.2	3772.7	3763.2	3763.2
7.5°	4690.6	4510.2	4285.5	4057.6	3886.7	3737.9	3649.3	3582.8	3557.5	3551.2	3532.2
10°	4893.1	4646.3	4276.0	3921.5	3680.9	3525.9	3462.6	3443.6	3453.1	3456.2	3453.1
12.5°	5136.9	4788.7	4215.8	3722.1	3462.6	3367.6	3373.9	3424.6	3481.5	3510.0	3516.4
15°	5396.4	4918.5	4079.7	3484.7	3275.8	3272.6	3364.4	3481.5	3592.3	3639.8	3652.5
17.5°	5687.6	5022.9	3870.8	3231.5	3114.4	3206.2	3370.8	3551.2	3699.9	3779.1	3794.9
20°	6007.2	5108.4	3605.0	2994.1	2972.0	3136.6	3364.4	3586.0	3769.6	3858.2	3874.0
22.5°	6339.6	5168.5	3298.0	2775.7	2842.2	3057.4	3304.3	3519.5	3693.6	3794.9	3807.5
25°	6719.4	5174.8	2984.6	2592.2	2721.9	2949.8	3158.7	3335.9	3481.5	3570.2	3579.7
27.5°	7051.7	5098.9	2706.1	2443.4	2611.2	2816.9	2956.1	3054.3	3155.5	3206.2	3209.3
30°	7434.7	4965.9	2443.4	2323.1	2497.2	2652.3	2721.9	2744.1	2753.6	2763.1	2750.4
32.5°	7890.4	4804.5	2247.2	2206.0	2367.4	2471.9	2490.9	2446.6	2392.8	2316.8	2297.8
35°	8450.6	4658.9	2085.8	2092.1	2225.0	2288.3	2272.5	2177.5	2073.1	1981.3	1965.5
37.5°	9058.3	4535.5	1962.3	1981.3	2069.9	2114.2	2066.8	1962.3	1914.8	1835.7	1838.9
40°	9596.4	4434.2	1851.5	1870.5	1911.7	1952.8	1876.9	1807.2	1895.9	1889.5	1895.9
42.5°	9979.4	4348.8	1756.6	1747.1	1775.6	1804.1	1747.1	1712.3	1861.0	1819.9	1842.1
45°	10204.1	4269.6	1677.5	1620.5	1664.8	1715.5	1677.5	1633.2	1683.8	1493.9	1478.1
47.5°	10356.0	4225.3	1607.8	1497.1	1576.2	1664.8	1585.7	1478.1	1405.3	1240.7	1228.0
50°	10371.8	4203.2	1525.5	1370.5	1471.7	1566.7	1474.9	1326.2	1221.7	1148.9	1139.4
52.5°	10454.1	4247.5	1411.6	1209.0	1319.8	1471.7	1408.4	1259.7	1117.3	1054.0	1041.3
55°	10821.3	4434.2	1221.7	987.5	1148.9	1398.9	1354.6	1123.6	987.5	949.5	940.0
57.5°	11201.1	4472.2	962.2	781.8	1000.2	1294.5	1237.5	1035.0	902.0	857.7	848.2
60°	10242.1	3684.1	721.6	645.7	883.0	1196.4	1145.7	981.2	826.1	772.3	762.8
62.5°	6728.9	1990.8	572.9	547.6	743.8	1012.8	1044.5	886.2	737.5	680.5	677.3
65°	3101.7	924.2	439.9	433.6	582.4	807.1	898.9	775.4	623.5	572.9	572.9
67.5°	845.1	458.9	345.0	319.7	395.6	541.2	655.2	579.2	443.1	383.0	379.8
70°	420.9	370.3	310.2	275.4	284.9	335.5	386.1	322.8	224.7	183.6	180.4
72.5°	345.0	303.8	262.7	234.2	215.2	205.7	199.4	161.4	104.4	79.1	76.0
75°	256.4	218.4	186.7	151.9	129.8	120.3	107.6	79.1	44.3	25.3	22.2
77.5°	57.0	53.8	50.6	38.0	34.8	28.5	22.2	15.8	6.3	0.0	0.0
80°	3.2	3.2	3.2	3.2	3.2	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)