

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: P637035

Luminaire Tested: GWS-SA4C-722-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637035  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-722-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

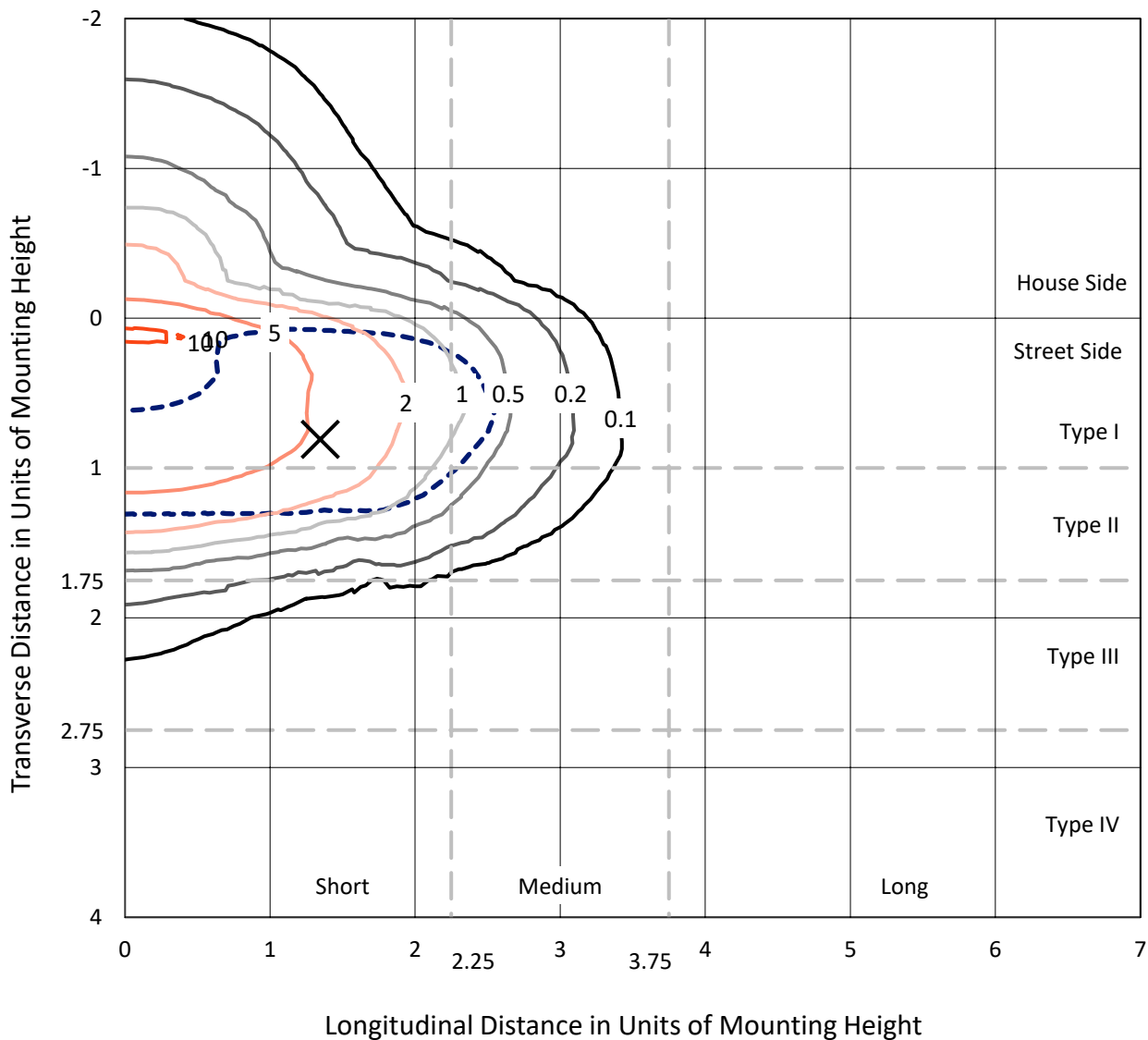
Lumens per Lamp: N/A  
Luminaire Lumens: 14560.4 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

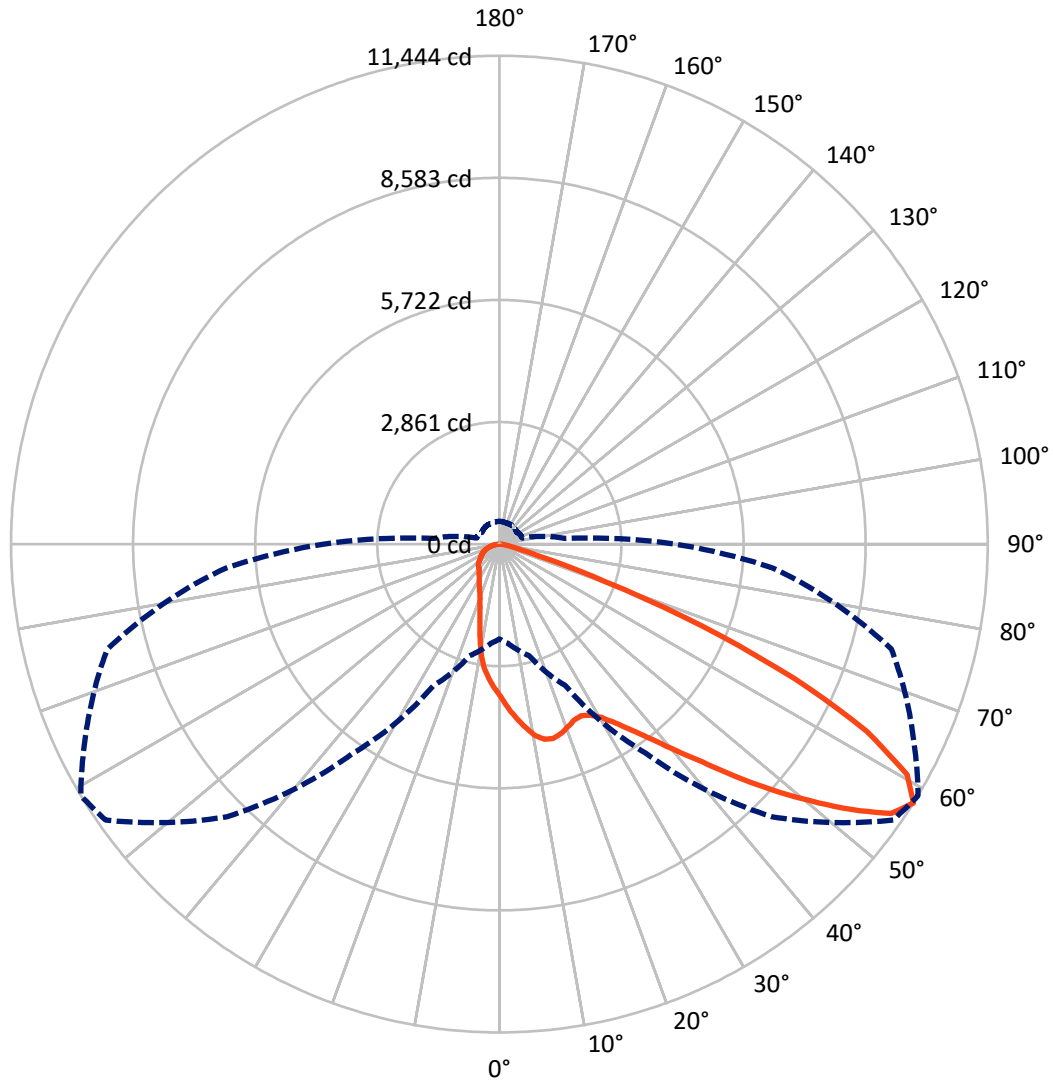
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2259.7	0.0	2259.7
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	12300.7	0.0	12300.7
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	14560.4	0.0	14560.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.9	2.3
10°-20°	841.0	5.8
20°-30°	1363.2	9.4
30°-40°	2193.0	15.1
40°-50°	3405.4	23.4
50°-60°	3668.1	25.2
60°-70°	2128.8	14.6
70°-80°	555.7	3.8
80°-90°	73.2	0.5
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°	14560.4	100.0
0°-180°	14560.4	100.0

**Coefficient of Utilization**



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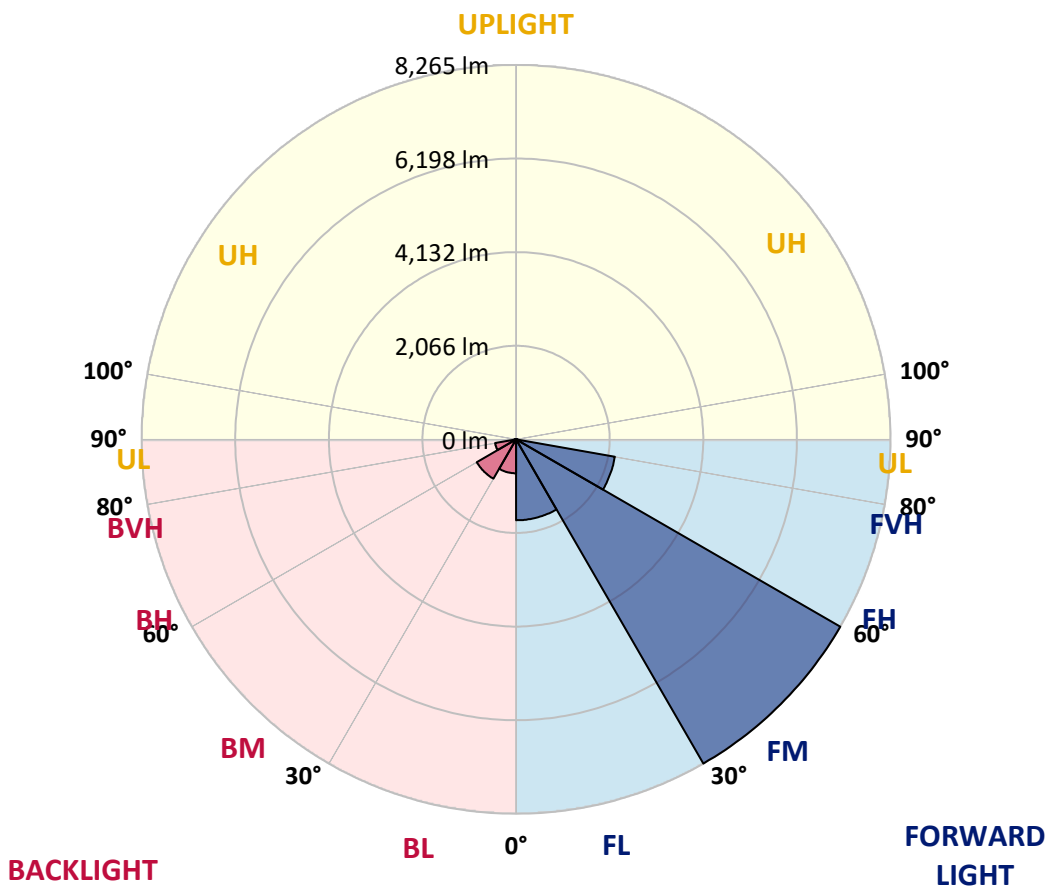
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1786.4	12.3			
FM (30°-60°)	8264.6	56.8			
FH (60°-80°)	2214.6	15.2			G2/5000
FVH (80°-90°)	35.1	0.2			G1/100
BL (0°-30°)	749.7	5.1	B2/1000		
BM (30°-60°)	1001.9	6.9	B2/2500		
BH (60°-80°)	470.0	3.2	B1/500		G1/500
BVH (80°-90°)	38.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3
2.5°	4054.0	4020.2	4043.8	4001.7	3984.3	3938.2	3878.7	3838.7	3777.2	3697.3	3627.6
5°	4456.8	4433.3	4438.4	4393.3	4353.3	4276.4	4154.5	4086.8	3982.2	3821.3	3671.7
7.5°	4444.5	4472.2	4487.6	4526.5	4537.8	4530.6	4421.0	4326.7	4211.9	3969.9	3744.4
10°	3984.3	4036.6	4083.7	4217.0	4378.9	4583.9	4609.6	4553.2	4437.4	4159.6	3831.6
12.5°	3483.1	3523.0	3565.1	3725.0	3973.0	4383.0	4660.8	4695.7	4649.5	4347.2	3930.0
15°	3237.1	3255.5	3295.5	3401.1	3598.9	4054.0	4571.6	4724.4	4807.4	4546.0	4040.7
17.5°	3226.8	3235.0	3254.5	3310.9	3448.2	3799.8	4410.7	4667.0	4931.4	4756.1	4169.8
20°	3439.0	3417.5	3405.2	3404.1	3471.8	3714.7	4254.9	4574.7	4989.9	4971.4	4308.2
22.5°	3733.2	3740.3	3713.7	3648.1	3639.9	3775.2	4177.0	4481.4	5007.3	5162.1	4436.3
25°	4150.4	4186.2	4107.3	3982.2	3920.7	3950.5	4225.2	4452.7	5005.2	5320.9	4516.3
27.5°	4637.2	4664.9	4585.0	4421.0	4293.9	4222.1	4368.7	4537.8	5022.7	5458.3	4564.5
30°	5191.8	5201.0	5091.3	4919.1	4733.6	4579.8	4607.5	4713.1	5111.8	5638.7	4620.8
32.5°	5869.3	5908.3	5742.2	5469.6	5210.2	5013.4	4928.4	4996.0	5304.5	5851.9	4708.0
35°	6729.3	6742.7	6531.5	6141.0	5774.0	5501.3	5323.0	5358.9	5597.7	6150.2	4839.2
37.5°	7540.1	7553.5	7329.0	6966.1	6441.3	6068.2	5809.9	5793.5	5972.9	6571.5	5053.4
40°	8054.7	8092.6	7992.2	7764.6	7263.4	6760.1	6409.5	6353.1	6464.9	7087.1	5351.7
42.5°	8331.5	8347.9	8345.8	8375.5	8077.3	7577.0	7086.0	6973.3	7048.1	7643.7	5653.1
45°	8333.5	8374.5	8484.2	8770.2	8783.5	8471.9	7940.9	7764.6	7695.9	8204.4	5967.7
47.5°	7960.4	8004.5	8305.8	8868.6	9283.7	9354.4	8964.9	8611.3	8322.2	8687.1	6226.0
50°	6830.8	6941.5	7515.5	8510.8	9382.1	10061.7	9941.8	9462.1	8878.8	9060.3	6388.0
52.5°	5849.9	5845.8	6199.4	7500.2	8971.1	10373.3	10886.9	10337.4	9429.3	9297.0	6429.0
55°	4283.6	4307.2	4669.0	5736.1	7874.3	10072.0	11406.6	11143.1	10060.7	9423.1	6412.6
57.5°	2221.2	2338.1	2709.2	3660.4	5983.1	9034.6	11268.2	11443.5	10702.4	9512.3	6434.1
60°	1122.4	1099.9	1233.1	1747.7	3466.7	7056.3	10415.4	10974.0	10818.2	9582.0	6447.5
62.5°	749.3	743.1	706.2	809.8	1416.6	4179.1	8878.8	9662.0	10013.5	9418.0	6277.3
65°	648.8	636.5	568.9	564.8	687.8	1733.3	6507.9	7595.5	8276.1	8689.2	5870.4
67.5°	584.3	565.8	497.1	463.3	494.1	761.6	3667.6	5094.4	6111.2	7348.5	4978.6
70°	521.7	512.5	443.8	394.6	391.6	464.3	1351.0	2629.2	3739.3	5013.4	3639.9
72.5°	467.4	451.0	392.6	345.4	321.9	329.0	586.3	1012.7	1935.3	3127.4	2177.2
75°	404.9	392.6	341.3	294.2	265.5	240.9	357.7	468.4	882.6	1486.3	1028.1
77.5°	312.6	304.4	269.6	233.7	217.3	179.4	217.3	295.2	408.0	626.3	535.1
80°	181.4	186.6	200.9	182.5	159.9	128.1	141.5	170.2	245.0	339.3	303.4
82.5°	91.2	97.4	130.2	105.6	95.3	74.8	84.1	100.5	128.1	187.6	118.9
85°	7.2	7.2	23.6	26.7	32.8	26.7	33.8	41.0	58.4	74.8	40.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	5.1	9.2	17.4	11.3
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°	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3	3574.3
2.5°	3580.4	3528.2	3465.6	3414.4	3335.5	3293.4	3240.1	3174.5	3147.9	3135.6	3128.4
5°	3587.6	3495.4	3362.1	3239.1	3102.8	2995.1	2875.2	2750.2	2678.4	2661.0	2648.7
7.5°	3614.3	3485.1	3272.9	3070.0	2816.8	2582.1	2353.5	2126.9	2011.1	1967.0	1962.9
10°	3651.2	3481.0	3182.7	2845.5	2418.1	2047.0	1779.5	1602.1	1527.3	1502.7	1494.5
12.5°	3697.3	3477.9	3063.8	2533.9	1957.8	1607.3	1454.5	1425.8	1436.1	1434.0	1434.0
15°	3755.7	3482.0	2920.3	2181.3	1583.7	1395.1	1398.1	1432.0	1463.7	1468.9	1468.9
17.5°	3819.3	3477.9	2712.2	1827.6	1359.2	1344.8	1392.0	1439.1	1467.8	1471.9	1471.9
20°	3887.9	3458.5	2449.8	1494.5	1260.8	1313.1	1364.3	1401.2	1418.6	1422.7	1422.7
22.5°	3928.9	3403.1	2164.9	1264.9	1198.3	1262.8	1296.7	1334.6	1336.6	1303.8	1302.8
25°	3922.8	3299.6	1839.9	1117.3	1131.6	1188.0	1231.1	1204.4	1171.6	1153.2	1150.1
27.5°	3883.8	3143.8	1508.8	1005.6	1052.7	1116.3	1102.9	1080.4	1072.2	1051.7	1049.6
30°	3834.6	2952.1	1211.6	918.4	970.7	1029.1	1008.6	1006.6	998.4	975.8	975.8
32.5°	3787.5	2754.3	987.1	853.9	918.4	922.5	951.2	953.3	949.2	910.2	906.1
35°	3774.2	2556.4	835.4	802.6	867.2	865.1	906.1	905.1	834.4	780.0	779.0
37.5°	3814.1	2355.5	745.2	760.6	796.4	823.1	855.9	796.4	772.9	740.1	738.0
40°	3899.2	2170.0	699.1	736.0	751.3	790.3	739.0	743.1	737.0	712.4	709.3
42.5°	4012.0	2012.1	673.4	727.8	725.7	736.0	679.6	696.0	705.2	686.8	683.7
45°	4120.6	1874.8	660.1	697.0	707.3	647.8	636.5	651.9	666.3	659.1	656.0
47.5°	4200.6	1755.9	652.9	655.0	683.7	618.1	599.6	606.8	624.2	627.3	626.3
50°	4225.2	1654.4	644.7	620.1	614.0	588.4	574.0	572.0	592.5	606.8	608.9
52.5°	4178.0	1564.2	623.2	589.4	559.7	563.8	558.6	548.4	568.9	588.4	590.4
55°	4108.3	1512.9	589.4	559.7	524.8	541.2	543.3	534.0	547.4	560.7	560.7
57.5°	4113.5	1542.7	556.6	532.0	494.1	515.6	526.9	522.8	522.8	533.0	534.0
60°	4147.3	1585.7	535.1	497.1	463.3	485.9	511.5	507.4	498.2	511.5	511.5
62.5°	4049.9	1528.3	520.7	463.3	430.5	457.2	487.9	485.9	475.6	497.1	499.2
65°	3762.9	1374.6	504.3	421.3	397.7	428.5	455.1	462.3	453.1	481.8	486.9
67.5°	3154.0	1156.2	472.5	381.3	364.9	393.6	419.2	429.5	422.3	456.1	460.2
70°	2351.4	935.9	422.3	337.2	324.9	350.6	374.1	378.2	379.3	419.2	423.3
72.5°	1499.6	727.8	355.7	288.0	278.8	298.3	315.7	332.1	339.3	377.2	376.2
75°	836.4	541.2	286.0	244.0	227.6	242.9	263.4	282.9	303.4	358.8	364.9
77.5°	481.8	380.3	226.5	195.8	176.3	192.7	210.1	237.8	299.3	347.5	341.3
80°	271.6	247.0	171.2	143.5	131.2	143.5	156.8	209.1	235.8	256.3	259.3
82.5°	127.1	138.4	116.9	88.2	88.2	96.4	108.7	162.0	178.4	145.6	127.1
85°	46.1	62.5	57.4	45.1	40.0	39.0	67.7	92.3	57.4	51.3	44.1
87.5°	12.3	17.4	16.4	11.3	6.2	5.1	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)