

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: P637653

Luminaire Tested: GWS-SA4D-730-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-730-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21416.8 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

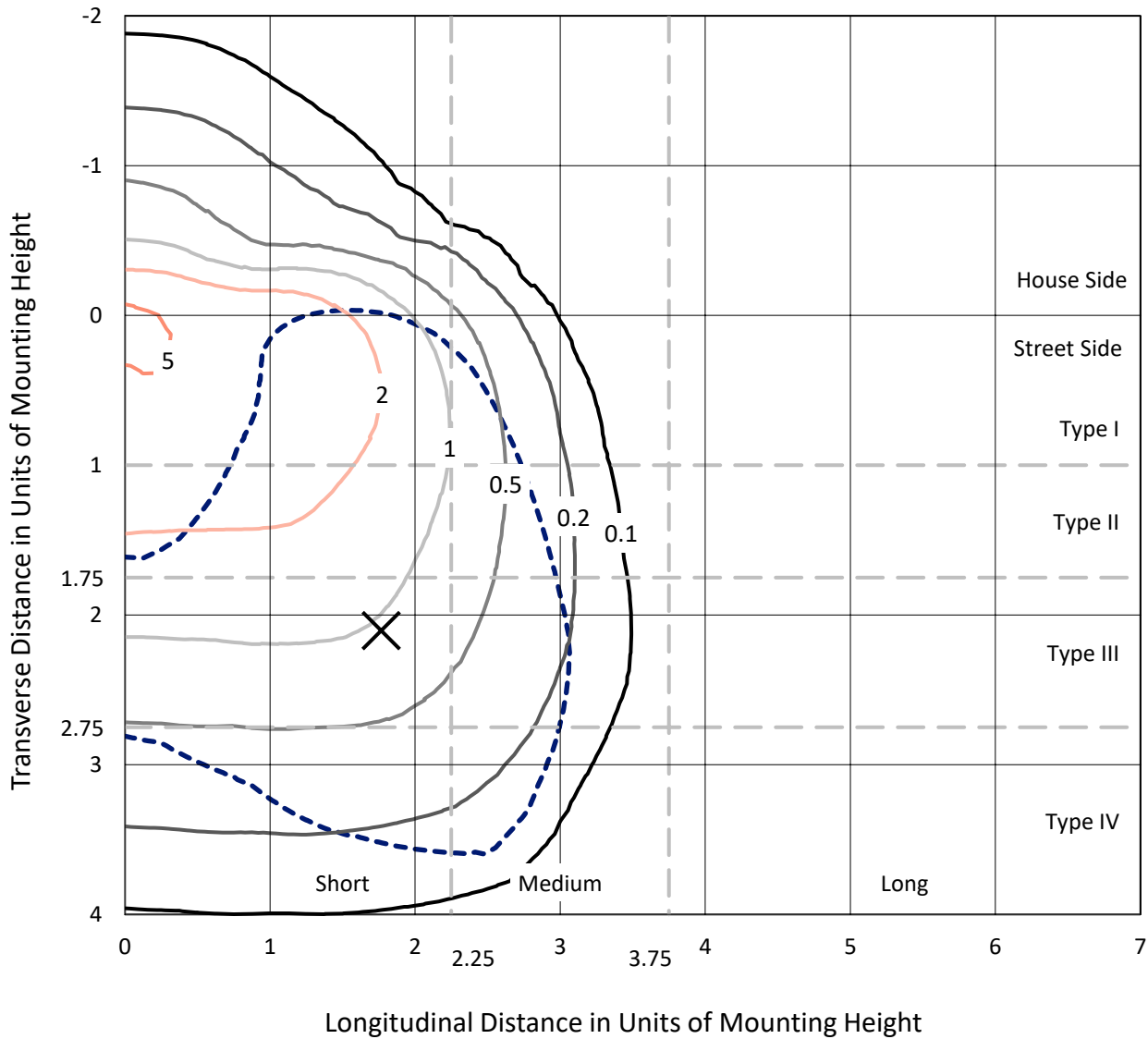
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

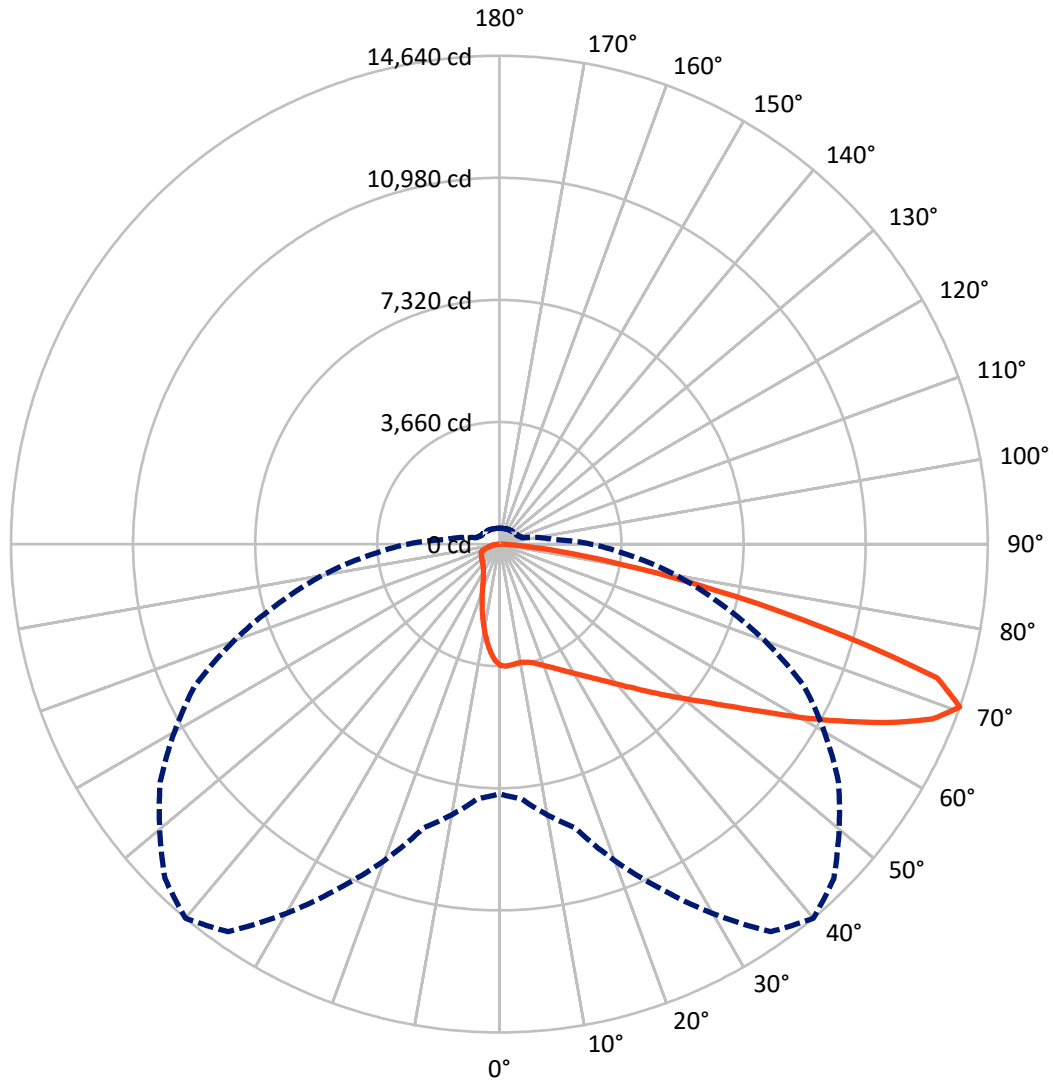
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3298.7	0.0	3298.7
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	18118.1	0.0	18118.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	21416.8	0.0	21416.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.3	1.5
10°-20°	837.4	3.9
20°-30°	1314.9	6.1
30°-40°	1977.1	9.2
40°-50°	3051.6	14.2
50°-60°	4531.9	21.2
60°-70°	5712.4	26.7
70°-80°	3303.5	15.4
80°-90°	366.6	1.7
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°	21416.8	100.0
0°-180°	21416.8	100.0

Coefficient of Utilization



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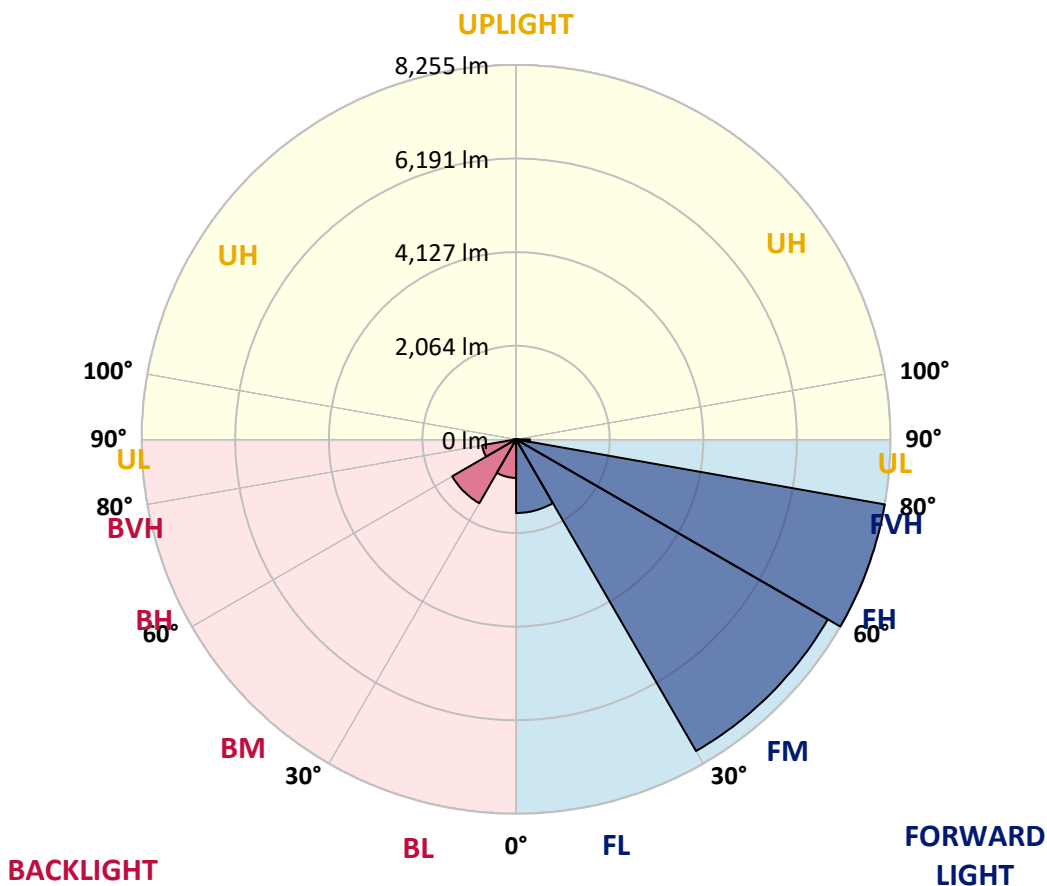
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1623.6	7.6			
FM (30°-60°)	7934.7	37.0			
FH (60°-80°)	8254.5	38.5			G4/12000
FVH (80°-90°)	305.3	1.4			G3/500
BL (0°-30°)	850.1	4.0	B2/1000		
BM (30°-60°)	1626.0	7.6	B2/2500		
BH (60°-80°)	761.4	3.6	B2/1000		G2/1000
BVH (80°-90°)	61.3	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8
2.5°	3659.2	3665.6	3670.4	3676.8	3673.6	3664.0	3672.0	3672.0	3654.4	3635.2	3617.6
5°	3664.0	3672.0	3670.4	3668.8	3656.0	3640.0	3640.0	3630.4	3600.1	3569.7	3540.9
7.5°	3654.4	3652.8	3651.2	3646.4	3632.0	3614.4	3611.2	3592.1	3552.1	3510.5	3469.0
10°	3611.2	3609.6	3614.4	3625.6	3622.4	3606.4	3606.4	3588.9	3542.5	3491.3	3437.0
12.5°	3576.1	3576.1	3595.3	3625.6	3636.8	3630.4	3632.0	3619.2	3566.5	3505.7	3441.8
15°	3580.9	3582.5	3624.0	3673.6	3694.4	3689.6	3691.2	3676.8	3617.6	3556.9	3470.6
17.5°	3612.8	3620.8	3692.8	3761.5	3788.7	3782.3	3771.1	3747.1	3680.0	3611.2	3505.7
20°	3680.0	3692.8	3785.5	3871.8	3903.8	3889.4	3870.2	3822.3	3748.7	3673.6	3544.1
22.5°	3812.7	3820.7	3923.0	4007.7	4033.3	4015.7	3977.3	3908.6	3823.9	3745.5	3590.5
25°	3999.7	4009.3	4106.8	4185.1	4178.7	4158.0	4105.2	4020.5	3919.8	3836.6	3657.6
27.5°	4221.9	4237.9	4333.8	4396.2	4354.6	4324.2	4265.1	4162.8	4049.3	3974.1	3759.9
30°	4464.9	4471.3	4552.8	4615.2	4551.2	4509.7	4437.7	4327.4	4225.1	4169.2	3913.4
32.5°	4699.9	4706.3	4776.6	4811.8	4744.6	4714.3	4651.9	4535.2	4463.3	4432.9	4142.0
35°	4947.7	4946.1	5003.6	5034.0	4965.3	4952.5	4888.5	4799.0	4786.2	4826.2	4476.1
37.5°	5195.5	5181.1	5211.4	5251.4	5213.0	5225.8	5184.3	5153.9	5203.4	5307.4	4920.5
40°	5393.7	5393.7	5425.7	5475.2	5488.0	5543.9	5520.0	5559.9	5719.8	5967.6	5470.4
42.5°	5569.5	5571.1	5638.3	5715.0	5807.7	5894.0	5913.2	6017.1	6348.0	6736.5	6161.0
45°	5753.4	5755.0	5846.1	5958.0	6154.6	6319.3	6357.6	6591.0	7064.2	7537.4	6910.8
47.5°	5966.0	5948.4	6074.7	6261.7	6541.5	6778.1	6877.2	7208.1	7806.0	8387.9	7617.3
50°	6205.8	6169.0	6309.7	6632.6	6977.9	7302.4	7468.7	7847.5	8602.1	9172.8	8282.4
52.5°	6475.9	6455.2	6602.2	6995.5	7523.0	7897.1	8122.5	8619.7	9375.8	9954.5	8809.9
55°	6811.6	6762.1	6974.7	7475.1	8162.5	8638.8	8905.8	9383.8	10221.5	10664.3	9212.7
57.5°	7179.3	7125.0	7409.5	8074.5	8993.7	9516.5	9850.6	10243.8	11017.6	11207.8	9449.3
60°	7575.8	7558.2	7895.5	8777.9	9984.9	10592.3	10833.7	11190.2	11709.8	11522.7	9390.2
62.5°	7938.7	7932.3	8423.0	9540.5	11035.1	11703.4	11895.2	11989.5	12208.5	11501.9	8920.2
65°	8320.7	8375.1	9038.5	10424.5	12238.9	12894.3	12974.2	12734.5	12376.4	10956.8	7957.8
67.5°	8368.7	8474.2	9425.4	11252.6	13380.3	13999.0	13935.0	13017.4	11880.8	9439.7	6237.7
70°	7484.7	7668.5	8808.3	11378.8	14184.4	14640.0	14178.0	12408.3	10082.4	6838.8	3923.0
72.5°	6253.7	6412.0	7419.1	9703.5	13146.9	13727.2	13102.1	10502.8	7125.0	3923.0	1998.3
75°	4867.7	5051.6	5980.4	7713.3	9842.6	10074.4	9761.1	7324.8	3916.6	1617.8	908.0
77.5°	2970.2	3102.9	3825.5	5225.8	6886.8	6539.9	5542.4	4106.8	1718.5	775.3	561.1
80°	1314.1	1395.6	1884.8	2807.1	3978.9	3761.5	2965.4	1753.7	940.0	492.4	391.7
82.5°	705.0	757.7	928.8	1111.0	1747.3	1827.2	1481.9	1010.3	505.2	281.4	223.8
85°	310.1	340.5	422.0	402.8	573.9	564.3	569.1	693.8	241.4	129.5	145.5
87.5°	0.0	0.0	0.0	0.0	1.6	1.6	17.6	92.7	24.0	38.4	33.6
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°	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8
2.5°	3598.5	3569.7	3561.7	3552.1	3534.5	3504.1	3481.8	3456.2	3445.0	3432.2	3433.8
5°	3508.9	3473.8	3440.2	3397.0	3342.7	3281.9	3240.4	3192.4	3166.8	3142.9	3149.2
7.5°	3432.2	3377.8	3309.1	3218.0	3120.5	3011.8	2923.8	2855.1	2808.7	2776.8	2792.8
10°	3384.2	3320.3	3200.4	3051.7	2887.1	2720.8	2594.5	2476.2	2402.7	2345.1	2342.0
12.5°	3374.6	3291.5	3117.3	2901.5	2663.3	2441.1	2255.6	2095.8	1998.3	1926.3	1953.5
15°	3384.2	3278.7	3045.3	2762.4	2461.8	2161.3	1931.1	1747.3	1630.6	1565.0	1560.2
17.5°	3395.4	3265.9	2963.8	2612.1	2250.8	1907.1	1640.2	1445.1	1325.2	1259.7	1261.3
20°	3405.0	3246.8	2867.9	2447.5	2036.6	1670.5	1394.0	1208.5	1101.4	1053.5	1061.5
22.5°	3421.0	3227.6	2765.6	2271.6	1817.6	1441.9	1199.0	1048.7	984.7	952.8	954.4
25°	3451.4	3216.4	2660.1	2079.8	1601.8	1259.7	1064.7	964.0	924.0	904.8	903.2
27.5°	3513.7	3226.0	2549.8	1894.3	1406.8	1120.6	978.3	912.8	885.6	872.8	871.2
30°	3617.6	3264.3	2453.9	1705.7	1238.9	1011.9	919.2	879.2	863.2	852.1	850.5
32.5°	3775.9	3336.3	2349.9	1529.9	1103.0	932.0	872.8	852.1	840.9	834.5	834.5
35°	4015.7	3467.4	2247.6	1376.4	997.5	869.6	836.1	828.1	818.5	815.3	818.5
37.5°	4361.0	3676.8	2154.9	1242.1	922.4	821.7	796.1	799.3	791.3	796.1	800.9
40°	4799.0	3956.5	2076.6	1131.8	866.4	786.5	760.9	772.1	767.3	772.1	780.1
42.5°	5353.7	4303.4	2017.4	1045.5	826.5	757.7	733.8	744.9	741.8	748.1	756.1
45°	5972.4	4760.6	1990.3	984.7	797.7	737.0	711.4	719.4	716.2	721.0	729.0
47.5°	6565.5	5176.3	2014.2	949.6	773.7	719.4	692.2	695.4	693.8	692.2	697.0
50°	7077.0	5507.2	2083.0	938.4	757.7	701.8	676.2	677.8	673.0	663.4	666.6
52.5°	7494.2	5772.5	2124.5	938.4	749.7	682.6	658.6	660.2	650.6	637.8	639.4
55°	7769.2	5879.7	2091.0	936.8	746.5	666.6	641.0	642.6	633.0	617.1	618.7
57.5°	7847.5	5775.7	1950.3	919.2	743.3	653.8	623.5	626.7	620.3	602.7	602.7
60°	7628.5	5395.3	1692.9	879.2	735.4	645.8	610.7	615.5	612.3	594.7	594.7
62.5°	7054.6	4719.1	1386.0	818.5	713.0	636.2	599.5	609.1	617.1	607.5	605.9
65°	5980.4	3780.7	1127.0	751.3	684.2	620.3	583.5	607.5	625.1	637.8	637.8
67.5°	4487.3	2706.4	919.2	681.0	641.0	588.3	562.7	585.1	597.9	605.9	610.7
70°	2735.2	1592.2	724.2	599.5	578.7	540.3	521.1	498.8	481.2	478.0	479.6
72.5°	1338.0	911.2	588.3	510.0	494.0	458.8	415.6	406.0	398.1	393.3	391.7
75°	737.0	634.6	486.0	423.6	394.9	351.7	342.1	326.1	322.9	316.5	318.1
77.5°	521.1	500.4	401.2	343.7	300.5	278.2	283.0	271.8	271.8	267.0	265.4
80°	391.7	393.3	308.5	251.0	222.2	214.2	219.0	219.0	215.8	214.2	212.6
82.5°	247.8	279.8	207.8	161.5	158.3	159.9	158.3	156.7	159.9	155.1	153.5
85°	171.1	201.4	126.3	95.9	95.9	94.3	97.5	95.9	99.1	94.3	94.3
87.5°	38.4	89.5	46.4	28.8	30.4	28.8	30.4	32.0	35.2	36.8	36.8
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)