

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: P638279

Luminaire Tested: GWS-SA4E-740-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-740-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30623.5 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

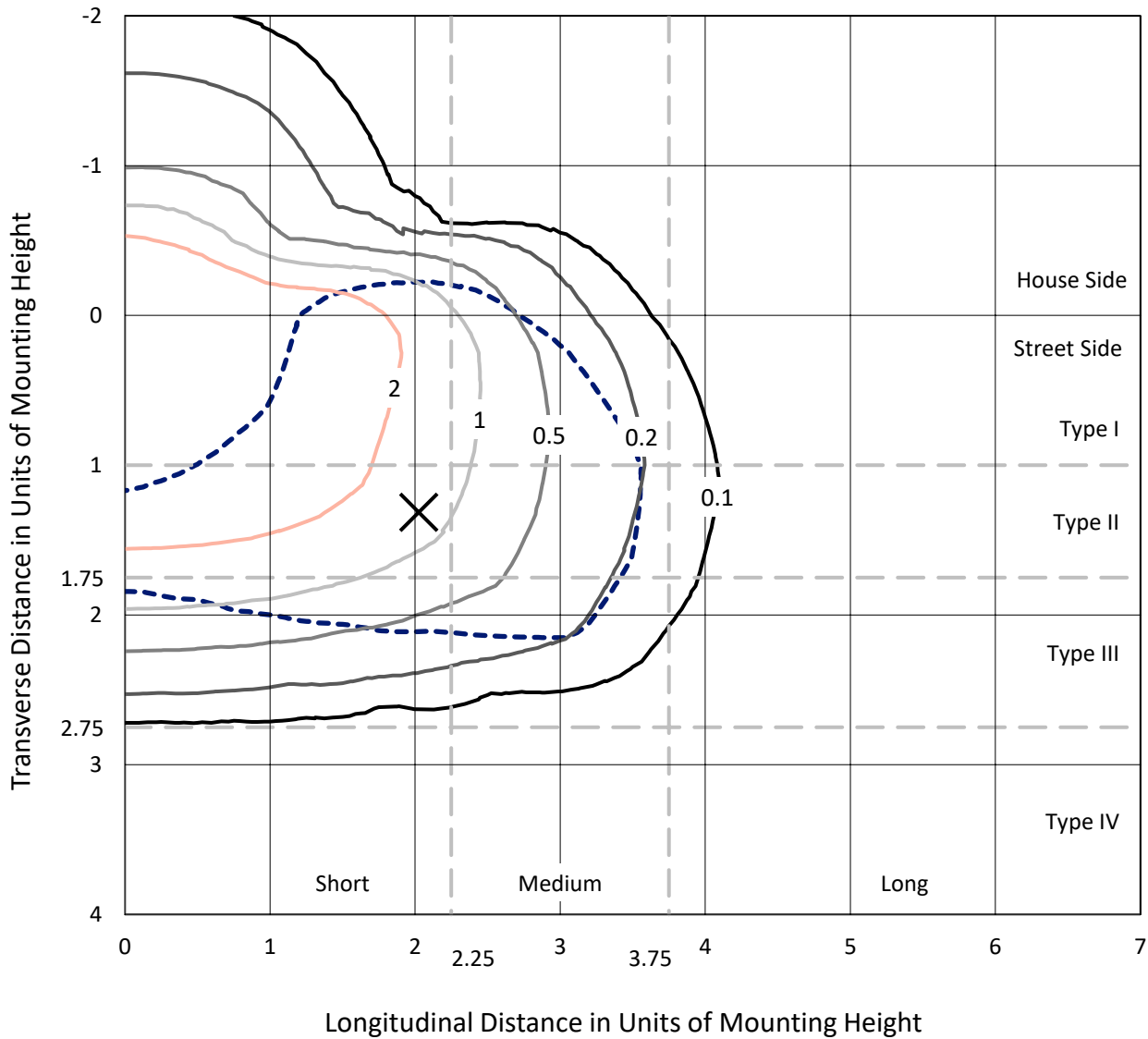
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

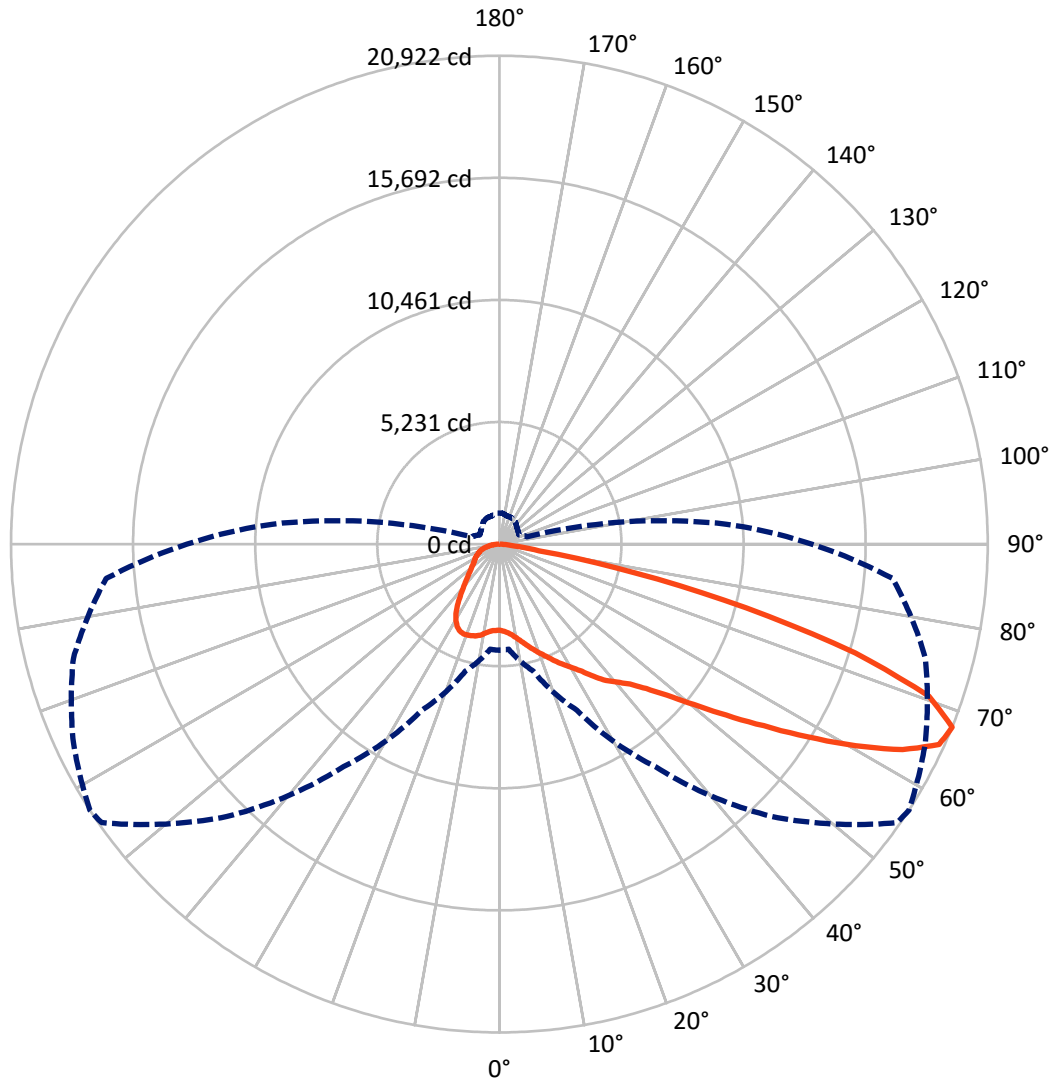
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6732.9	0.0	6732.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	23890.5	0.0	23890.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	30623.5	0.0	30623.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.0	1.2
10°-20°	1211.5	4.0
20°-30°	2159.9	7.1
30°-40°	3140.2	10.3
40°-50°	4545.0	14.8
50°-60°	7112.8	23.2
60°-70°	8297.5	27.1
70°-80°	3463.7	11.3
80°-90°	326.9	1.1
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°	30623.5	100.0
0°-180°	30623.5	100.0

Coefficient of Utilization



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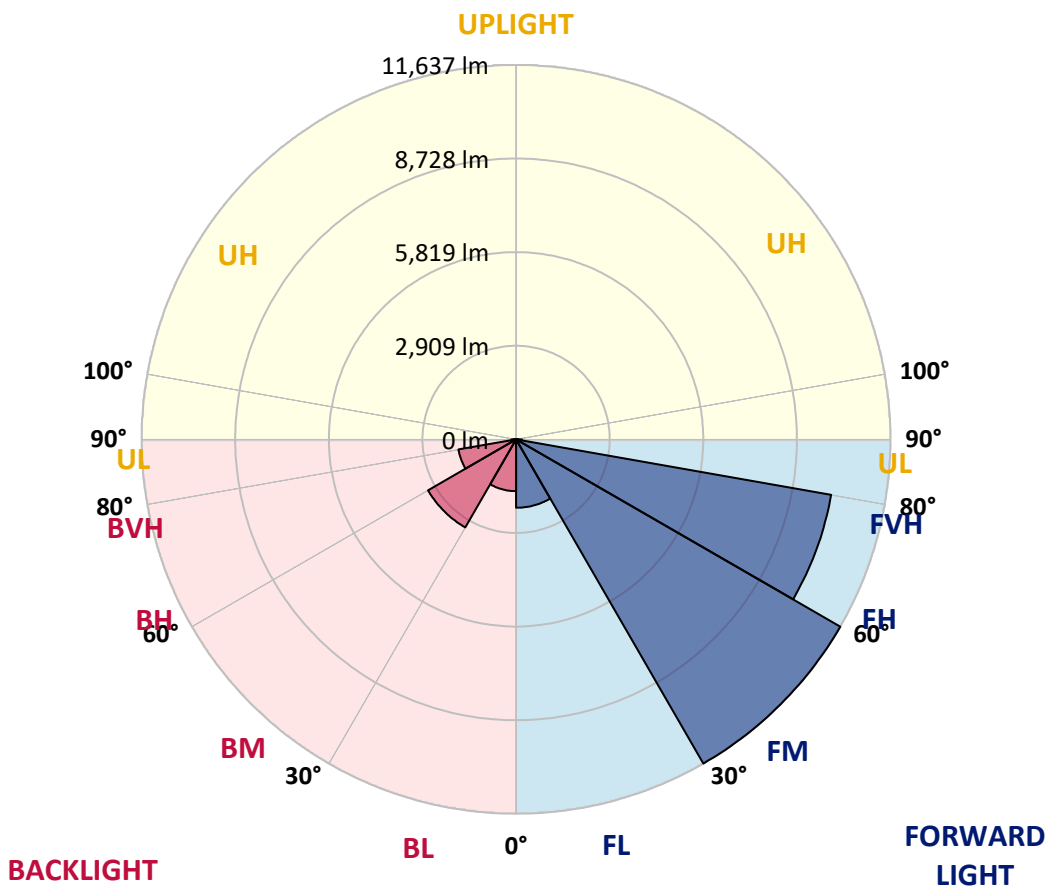
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2127.1	6.9			
FM (30°-60°)	11637.4	38.0			
FH (60°-80°)	9944.0	32.5			G4/12000
FVH (80°-90°)	182.1	0.6			G2/225
BL (0°-30°)	1610.3	5.3	B3/2500		
BM (30°-60°)	3160.6	10.3	B3/5000		
BH (60°-80°)	1817.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	144.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3689.9	3689.9	3689.9	3689.9	3689.9	3689.9	3689.9	3689.9	3689.9	3689.9	3689.9
2.5°	3742.6	3738.2	3736.0	3749.2	3744.8	3742.6	3742.6	3740.4	3736.0	3718.4	3694.3
5°	3845.7	3836.9	3828.1	3839.1	3830.3	3821.5	3819.4	3815.0	3799.6	3773.3	3736.0
7.5°	3953.2	3944.4	3946.6	3953.2	3946.6	3942.2	3935.6	3931.2	3907.1	3865.4	3815.0
10°	4104.5	4104.5	4108.9	4115.5	4117.7	4111.1	4098.0	4091.4	4062.9	4010.2	3940.0
12.5°	4323.9	4319.5	4319.5	4315.1	4321.7	4315.1	4302.0	4291.0	4255.9	4187.9	4087.0
15°	4613.5	4596.0	4580.6	4552.1	4543.3	4519.2	4523.6	4517.0	4484.1	4391.9	4264.7
17.5°	4922.8	4920.6	4896.5	4839.5	4782.4	4742.9	4751.7	4749.5	4732.0	4606.9	4444.6
20°	5194.9	5205.8	5183.9	5140.0	5063.2	4988.6	4984.2	4995.2	4973.3	4848.2	4622.3
22.5°	5499.8	5491.0	5469.1	5412.0	5355.0	5276.0	5249.7	5240.9	5232.1	5089.5	4804.4
25°	5789.4	5815.7	5787.2	5734.5	5646.8	5561.2	5539.3	5548.0	5523.9	5335.3	4999.6
27.5°	6155.7	6166.7	6149.1	6076.7	6002.2	5881.5	5839.8	5839.8	5831.0	5565.6	5153.2
30°	6546.2	6576.9	6546.2	6487.0	6410.2	6236.9	6146.9	6138.2	6111.8	5802.5	5333.1
32.5°	6938.9	6960.8	6938.9	6881.9	6794.1	6642.7	6513.3	6493.6	6458.5	6061.4	5517.3
35°	7287.7	7307.5	7303.1	7316.2	7243.8	7053.0	6974.0	6965.2	6873.1	6399.2	5767.4
37.5°	7669.4	7693.6	7660.6	7687.0	7658.5	7478.6	7454.4	7410.6	7278.9	6717.3	6030.7
40°	8103.8	8125.7	8073.1	8084.0	8051.1	7950.2	7827.4	7768.1	7572.9	7061.7	6445.3
42.5°	8568.9	8619.3	8643.5	8623.7	8546.9	8489.9	8274.9	8200.3	8038.0	7682.6	7127.6
45°	9242.4	9316.9	9352.0	9301.6	9268.7	9187.5	8924.3	8834.3	8748.8	8557.9	8079.7
47.5°	9968.5	10036.5	10148.4	10170.3	10196.6	10135.2	9764.5	9676.7	9692.1	9670.1	9251.1
50°	10547.7	10604.7	10857.0	11126.8	11350.6	11368.1	10894.3	10799.9	10883.3	10953.5	10661.7
52.5°	10968.9	11019.3	11352.8	11910.0	12416.7	12791.9	12280.7	12173.2	12241.2	12399.2	12265.4
55°	11311.1	11381.3	11730.1	12585.7	13610.2	14202.5	13875.6	13739.6	13711.1	13906.3	13983.1
57.5°	11491.0	11512.9	12002.1	13114.4	14485.5	15586.7	15729.3	15575.8	15303.7	15411.2	15810.5
60°	11080.7	11118.0	11787.1	13250.4	15176.5	16960.0	17675.2	17548.0	16968.8	17028.1	17469.0
62.5°	9946.6	9999.2	10804.3	12603.2	15233.5	17877.0	19471.9	19390.7	18614.1	18293.9	18425.5
65°	7978.7	7996.3	8829.9	11001.8	14099.4	17991.1	20724.6	20704.8	19763.7	19013.4	18449.6
67.5°	4549.9	4519.2	5633.6	7847.1	11635.8	16508.1	20805.7	20922.0	20136.6	18895.0	16914.0
70°	1972.2	1976.6	2489.9	3872.0	7531.2	13342.5	19324.9	19524.6	19057.3	16922.8	13456.6
72.5°	912.6	925.8	1147.3	1676.0	3216.1	8277.1	15757.9	15937.7	15536.3	13544.3	9790.8
75°	645.0	655.9	765.6	960.9	1478.6	3224.8	10541.1	10918.4	11113.6	10130.8	6451.9
77.5°	489.2	504.6	559.4	666.9	912.6	1143.0	5043.5	5942.9	7079.3	6302.7	3323.6
80°	311.5	311.5	370.7	445.3	557.2	594.5	1456.7	1726.5	3464.0	2597.4	1305.3
82.5°	210.6	217.2	252.3	283.0	320.3	337.8	625.2	666.9	1000.4	884.1	537.5
85°	111.9	116.3	131.6	129.4	153.6	133.8	263.3	261.1	366.4	401.5	204.0
87.5°	0.0	0.0	2.2	2.2	4.4	6.6	28.5	30.7	76.8	122.9	68.0
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°	3689.9	3689.9	3689.9	3689.9	3689.9	3689.9	3689.9	3689.9	3689.9	3689.9	3689.9
2.5°	3707.5	3681.1	3694.3	3689.9	3703.1	3703.1	3679.0	3672.4	3674.6	3648.2	3639.5
5°	3740.4	3709.7	3716.2	3707.5	3720.6	3731.6	3720.6	3720.6	3733.8	3714.1	3703.1
7.5°	3815.0	3779.9	3779.9	3768.9	3784.3	3793.0	3784.3	3797.4	3821.5	3801.8	3790.8
10°	3933.4	3891.8	3893.9	3880.8	3887.4	3883.0	3847.9	3836.9	3843.5	3825.9	3817.2
12.5°	4087.0	4030.0	4030.0	4003.6	3988.3	3942.2	3869.8	3843.5	3847.9	3832.5	3825.9
15°	4234.0	4181.3	4170.4	4117.7	4047.5	3962.0	3896.1	3878.6	3883.0	3867.6	3856.6
17.5°	4407.3	4339.3	4299.8	4203.3	4073.8	3986.1	3920.3	3878.6	3843.5	3808.4	3799.6
20°	4567.4	4481.9	4409.5	4260.3	4102.4	3981.7	3858.8	3755.7	3670.2	3624.1	3613.1
22.5°	4732.0	4622.3	4495.0	4299.8	4100.2	3902.7	3676.8	3521.0	3393.8	3325.8	3338.9
25°	4887.7	4749.5	4576.2	4337.1	4030.0	3727.2	3420.1	3187.5	3042.8	2990.1	2974.8
27.5°	5017.2	4846.0	4650.8	4319.5	3885.2	3474.9	3069.1	2810.2	2669.8	2610.6	2595.2
30°	5161.9	4968.9	4758.3	4238.4	3657.0	3121.7	2672.0	2461.4	2360.5	2303.5	2305.7
32.5°	5328.7	5126.8	4909.7	4082.6	3365.2	2740.0	2345.1	2200.4	2119.2	2062.1	2053.4
35°	5552.4	5352.8	5010.6	3847.9	2994.5	2389.0	2121.4	2002.9	1902.0	1827.4	1812.1
37.5°	5828.9	5692.8	5021.5	3534.2	2597.4	2147.7	1961.2	1834.0	1711.1	1612.4	1601.5
40°	6302.7	6146.9	4931.6	3141.5	2259.6	1991.9	1827.4	1680.4	1537.8	1428.1	1412.8
42.5°	6978.4	6658.1	4738.5	2698.3	2005.1	1869.1	1700.2	1513.7	1368.9	1292.1	1281.2
45°	7838.3	7228.5	4449.0	2281.5	1816.4	1748.4	1566.4	1371.1	1294.3	1239.5	1228.5
47.5°	8891.4	7893.2	4115.5	1956.8	1669.5	1638.7	1430.3	1322.8	1254.8	1208.8	1197.8
50°	10150.6	8740.0	3841.3	1702.4	1537.8	1511.5	1386.5	1294.3	1239.5	1202.2	1193.4
52.5°	11587.5	9681.1	3707.5	1520.3	1423.8	1397.4	1371.1	1287.7	1241.7	1213.2	1202.2
55°	13079.3	10672.7	3582.4	1379.9	1327.2	1342.6	1373.3	1309.7	1274.6	1237.3	1226.3
57.5°	14520.6	11602.9	3275.3	1270.2	1257.0	1316.3	1384.3	1331.6	1289.9	1252.6	1239.5
60°	15514.4	12111.8	2755.4	1182.4	1204.4	1283.4	1355.8	1298.7	1246.1	1230.7	1224.1
62.5°	15782.0	12050.4	2138.9	1092.5	1140.8	1211.0	1281.2	1243.9	1189.0	1213.2	1215.3
65°	15156.8	11392.3	1605.8	1004.7	1057.4	1116.6	1204.4	1189.0	1169.3	1235.1	1237.3
67.5°	13386.4	9775.4	1224.1	928.0	971.8	1044.2	1180.2	1243.9	1248.3	1331.6	1322.8
70°	10128.6	7303.1	958.7	855.6	906.0	1044.2	1257.0	1285.5	1232.9	1309.7	1292.1
72.5°	7002.5	4819.7	816.1	792.0	824.9	996.0	1254.8	1254.8	1197.8	1197.8	1164.9
75°	4350.2	2834.4	710.8	710.8	710.8	870.9	1219.7	1156.1	1055.2	1009.1	982.8
77.5°	2147.7	1377.7	596.7	618.6	594.5	728.3	996.0	945.5	884.1	835.8	818.3
80°	917.0	688.8	482.6	506.8	478.2	548.4	789.8	778.8	719.6	655.9	636.2
82.5°	421.2	355.4	386.1	397.1	348.8	412.4	577.0	577.0	544.1	456.3	423.4
85°	179.9	188.7	267.6	267.6	219.4	232.5	309.3	294.0	263.3	215.0	197.4
87.5°	61.4	92.1	136.0	118.5	46.1	19.7	11.0	4.4	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)