

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: P640259

Luminaire Tested: GWS-SA5D-740-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640259
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-SA5D-740-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30061.4 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 204.6
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

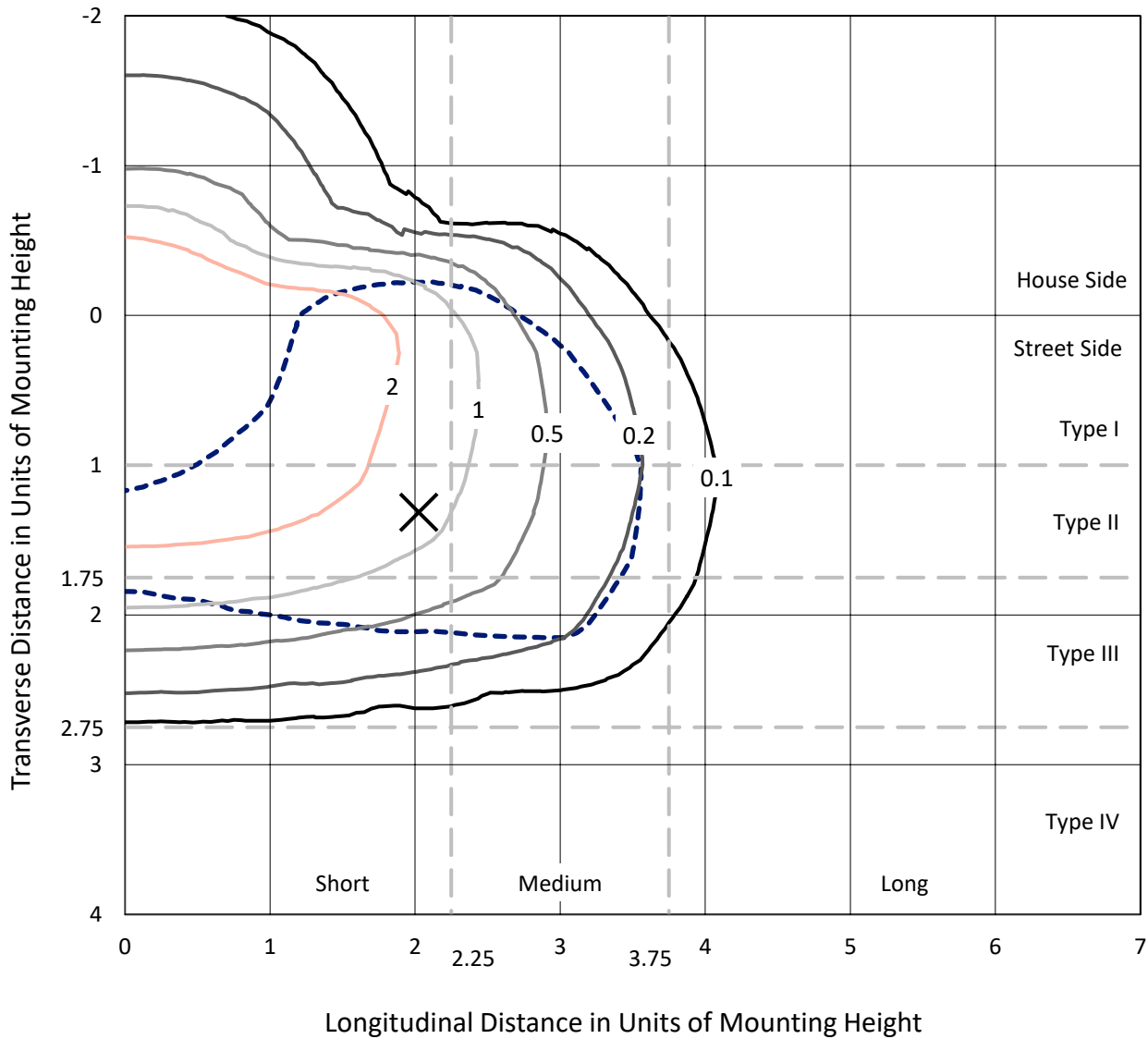


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Iso-Footcandle Lines of Horizontal Illumination

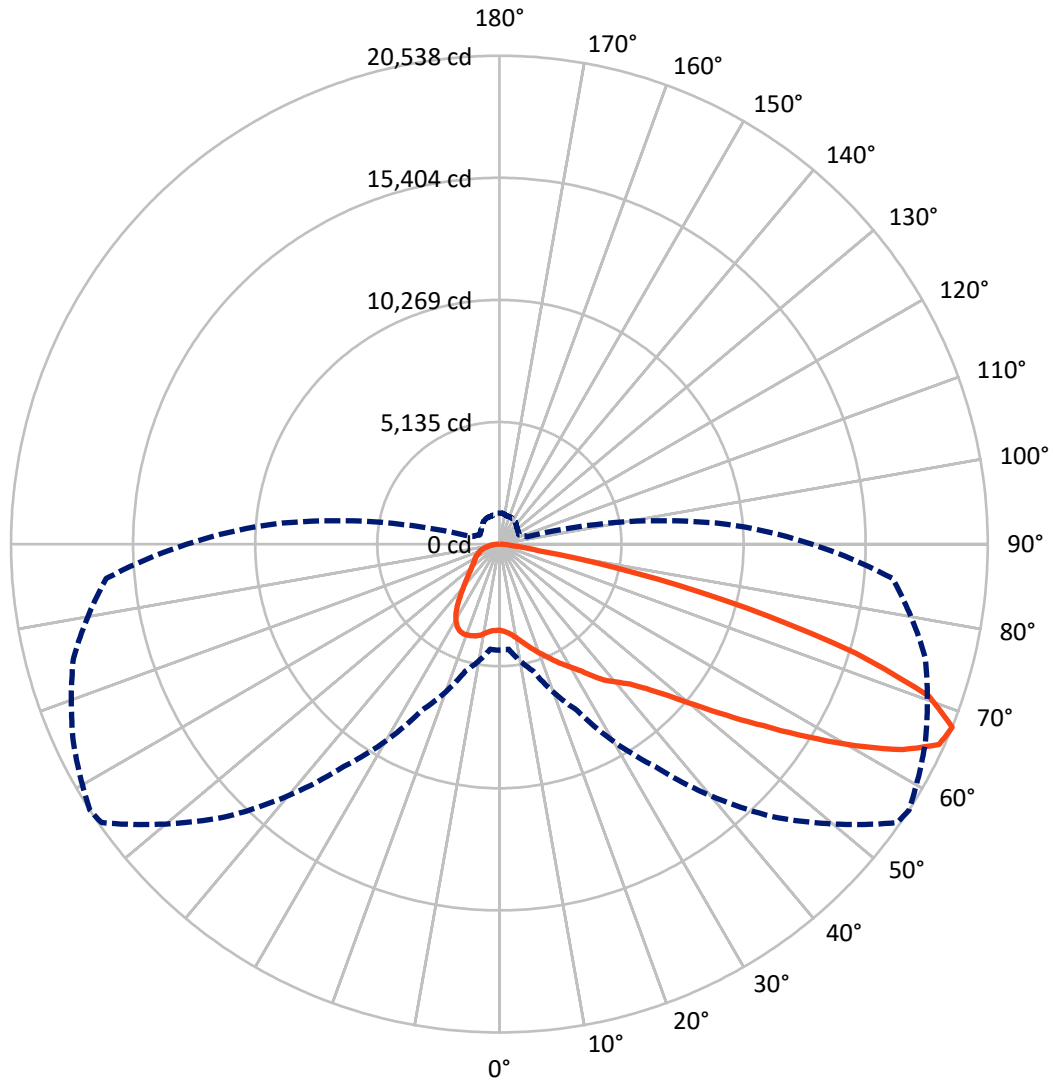
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 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	6609.4	0.0	6609.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	23452.0	0.0	23452.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	30061.4	0.0	30061.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.2	1.2
10°-20°	1189.3	4.0
20°-30°	2120.3	7.1
30°-40°	3082.6	10.3
40°-50°	4461.6	14.8
50°-60°	6982.2	23.2
60°-70°	8145.2	27.1
70°-80°	3400.1	11.3
80°-90°	320.9	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°	30061.4	100.0
0°-180°	30061.4	100.0

Coefficient of Utilization



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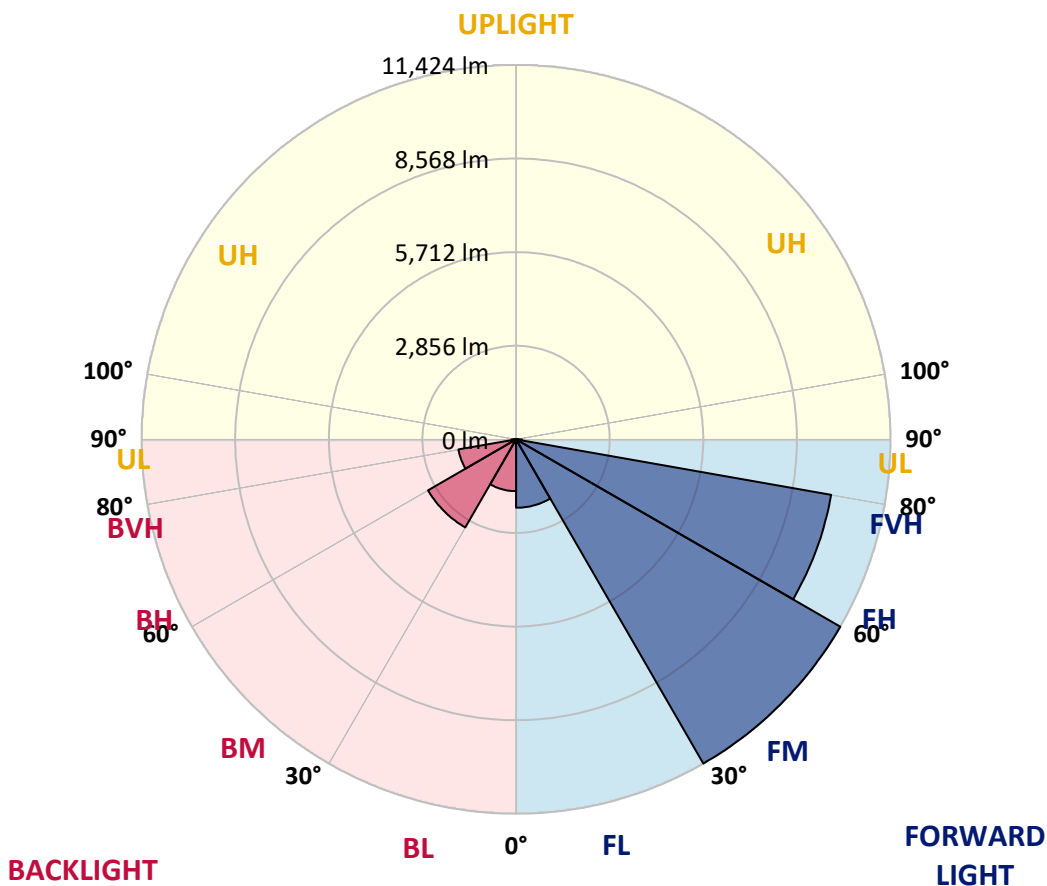
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2088.1	6.9			
FM (30°-60°)	11423.8	38.0			
FH (60°-80°)	9761.5	32.5			G4/12000
FVH (80°-90°)	178.8	0.6			G2/225
BL (0°-30°)	1580.7	5.3	B3/2500		
BM (30°-60°)	3102.6	10.3	B3/5000		
BH (60°-80°)	1783.9	5.9	B3/2500		G3/2500
BVH (80°-90°)	142.1	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°	3622.2	3622.2	3622.2	3622.2	3622.2	3622.2	3622.2	3622.2	3622.2	3622.2	3622.2
2.5°	3673.9	3669.6	3667.4	3680.3	3676.0	3673.9	3673.9	3671.7	3667.4	3650.2	3626.5
5°	3775.1	3766.5	3757.9	3768.6	3760.0	3751.4	3749.3	3744.9	3729.9	3704.0	3667.4
7.5°	3880.6	3872.0	3874.2	3880.6	3874.2	3869.8	3863.4	3859.1	3835.4	3794.5	3744.9
10°	4029.2	4029.2	4033.5	4040.0	4042.1	4035.7	4022.7	4016.3	3988.3	3936.6	3867.7
12.5°	4244.6	4240.2	4240.2	4235.9	4242.4	4235.9	4223.0	4212.3	4177.8	4111.0	4012.0
15°	4528.8	4511.6	4496.5	4468.5	4459.9	4436.2	4440.5	4434.1	4401.8	4311.3	4186.4
17.5°	4832.5	4830.3	4806.6	4750.6	4694.6	4655.9	4664.5	4662.3	4645.1	4522.4	4363.0
20°	5099.5	5110.3	5088.7	5045.7	4970.3	4897.1	4892.8	4903.5	4882.0	4759.2	4537.4
22.5°	5398.8	5390.2	5368.7	5312.7	5256.7	5179.2	5153.3	5144.7	5136.1	4996.1	4716.2
25°	5683.1	5708.9	5680.9	5629.3	5543.1	5459.1	5437.6	5446.2	5422.5	5237.3	4907.8
27.5°	6042.7	6053.5	6036.3	5965.2	5892.0	5773.5	5732.6	5732.6	5724.0	5463.4	5058.6
30°	6426.1	6456.2	6426.1	6367.9	6292.5	6122.4	6034.1	6025.5	5999.7	5696.0	5235.2
32.5°	6811.5	6833.1	6811.5	6755.5	6669.4	6520.8	6393.8	6374.4	6339.9	5950.1	5416.1
35°	7153.9	7173.3	7169.0	7181.9	7110.9	6923.5	6846.0	6837.4	6746.9	6281.8	5661.6
37.5°	7528.7	7552.3	7520.0	7545.9	7517.9	7341.3	7317.6	7274.5	7145.3	6594.0	5920.0
40°	7955.0	7976.6	7924.9	7935.7	7903.4	7804.3	7683.7	7625.6	7433.9	6932.1	6327.0
42.5°	8411.6	8461.1	8484.8	8465.4	8390.1	8334.1	8123.0	8049.8	7890.4	7541.6	6996.7
45°	9072.7	9145.9	9180.4	9130.9	9098.6	9018.9	8760.5	8672.2	8588.2	8400.8	7931.4
47.5°	9785.5	9852.3	9962.1	9983.6	10009.5	9949.2	9585.2	9499.1	9514.2	9492.6	9081.3
50°	10354.0	10410.0	10657.7	10922.6	11142.2	11159.5	10694.3	10601.7	10683.5	10752.4	10466.0
52.5°	10767.5	10817.1	11144.4	11691.4	12188.8	12557.1	12055.3	11949.8	12016.6	12171.6	12040.2
55°	11103.5	11172.4	11514.8	12354.7	13360.3	13941.8	13620.9	13487.4	13459.4	13651.1	13726.4
57.5°	11280.1	11301.6	11781.8	12873.6	14219.6	15300.6	15440.6	15289.9	15022.8	15128.4	15520.3
60°	10877.3	10914.0	11570.8	13007.2	14897.9	16648.7	17350.8	17225.9	16657.4	16715.5	17148.4
62.5°	9764.0	9815.7	10606.0	12371.9	14953.9	17548.9	19114.5	19034.8	18272.5	17958.1	18087.3
65°	7832.3	7849.5	8667.9	10799.8	13840.6	17660.9	20344.2	20324.8	19400.9	18664.4	18111.0
67.5°	4466.4	4436.2	5530.2	7703.1	11422.2	16205.1	20423.8	20538.0	19767.0	18548.1	16603.5
70°	1936.0	1940.3	2444.2	3800.9	7393.0	13097.6	18970.2	19166.2	18707.5	16612.1	13209.6
72.5°	895.9	908.8	1126.3	1645.3	3157.0	8125.2	15468.6	15645.2	15251.1	13295.7	9611.1
75°	633.1	643.9	751.6	943.2	1451.5	3165.7	10347.6	10718.0	10909.7	9944.9	6333.5
77.5°	480.2	495.3	549.1	654.7	895.9	1122.0	4950.9	5833.8	6949.4	6187.0	3262.6
80°	305.8	305.8	363.9	437.2	547.0	583.6	1429.9	1694.8	3400.4	2549.7	1281.3
82.5°	206.7	213.2	247.7	277.8	314.4	331.6	613.7	654.7	982.0	867.9	527.6
85°	109.8	114.1	129.2	127.1	150.7	131.4	258.4	256.3	359.6	394.1	200.3
87.5°	0.0	0.0	2.2	2.2	4.3	6.5	28.0	30.1	75.4	120.6	66.8
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°	3622.2	3622.2	3622.2	3622.2	3622.2	3622.2	3622.2	3622.2	3622.2	3622.2	3622.2
2.5°	3639.4	3613.6	3626.5	3622.2	3635.1	3635.1	3611.4	3605.0	3607.1	3581.3	3572.7
5°	3671.7	3641.6	3648.0	3639.4	3652.3	3663.1	3652.3	3652.3	3665.3	3645.9	3635.1
7.5°	3744.9	3710.5	3710.5	3699.7	3714.8	3723.4	3714.8	3727.7	3751.4	3732.0	3721.3
10°	3861.2	3820.3	3822.5	3809.5	3816.0	3811.7	3777.2	3766.5	3772.9	3755.7	3747.1
12.5°	4012.0	3956.0	3956.0	3930.1	3915.1	3869.8	3798.8	3772.9	3777.2	3762.2	3755.7
15°	4156.3	4104.6	4093.8	4042.1	3973.2	3889.2	3824.6	3807.4	3811.7	3796.6	3785.9
17.5°	4326.4	4259.6	4220.9	4126.1	3999.1	3912.9	3848.3	3807.4	3772.9	3738.5	3729.9
20°	4483.6	4399.6	4328.5	4182.1	4027.1	3908.6	3788.0	3686.8	3602.8	3557.6	3546.8
22.5°	4645.1	4537.4	4412.5	4220.9	4024.9	3831.1	3609.3	3456.4	3331.5	3264.7	3277.6
25°	4798.0	4662.3	4492.2	4257.5	3956.0	3658.8	3357.3	3129.0	2986.9	2935.2	2920.2
27.5°	4925.1	4757.1	4565.4	4240.2	3813.9	3411.2	3012.8	2758.6	2620.8	2562.7	2547.6
30°	5067.2	4877.7	4671.0	4160.6	3589.9	3064.4	2623.0	2416.2	2317.2	2261.2	2263.3
32.5°	5230.9	5032.7	4819.5	4007.7	3303.5	2689.7	2302.1	2160.0	2080.3	2024.3	2015.7
35°	5450.5	5254.6	4918.6	3777.2	2939.5	2345.2	2082.4	1966.1	1867.1	1793.9	1778.8
37.5°	5721.9	5588.3	4929.4	3469.3	2549.7	2108.3	1925.2	1800.3	1679.7	1582.8	1572.1
40°	6187.0	6034.1	4841.1	3083.8	2218.1	1955.4	1793.9	1649.6	1509.6	1401.9	1386.9
42.5°	6850.3	6535.9	4651.6	2648.8	1968.3	1834.8	1669.0	1485.9	1343.8	1268.4	1257.6
45°	7694.5	7095.8	4367.3	2239.6	1783.1	1716.3	1537.6	1345.9	1270.6	1216.7	1206.0
47.5°	8728.2	7748.3	4040.0	1920.9	1638.8	1608.7	1404.1	1298.6	1231.8	1186.6	1175.8
50°	9964.3	8579.6	3770.8	1671.1	1509.6	1483.8	1361.0	1270.6	1216.7	1180.1	1171.5
52.5°	11374.8	9503.4	3639.4	1492.4	1397.6	1371.8	1345.9	1264.1	1218.9	1190.9	1180.1
55°	12839.2	10476.8	3516.7	1354.6	1302.9	1317.9	1348.1	1285.6	1251.2	1214.6	1203.8
57.5°	14254.0	11389.9	3215.2	1246.9	1234.0	1292.1	1358.9	1307.2	1266.3	1229.7	1216.7
60°	15229.6	11889.5	2704.8	1160.7	1182.3	1259.8	1330.9	1274.9	1223.2	1208.1	1201.7
62.5°	15492.3	11829.2	2099.7	1072.4	1119.8	1188.7	1257.6	1221.0	1167.2	1190.9	1193.0
65°	14878.6	11183.1	1576.4	986.3	1038.0	1096.1	1182.3	1167.2	1147.8	1212.4	1214.6
67.5°	13140.7	9596.0	1201.7	910.9	954.0	1025.1	1158.6	1221.0	1225.3	1307.2	1298.6
70°	9942.7	7169.0	941.1	839.9	889.4	1025.1	1234.0	1262.0	1210.3	1285.6	1268.4
72.5°	6874.0	4731.2	801.1	777.4	809.7	977.7	1231.8	1231.8	1175.8	1175.8	1143.5
75°	4270.4	2782.3	697.7	697.7	697.7	854.9	1197.3	1134.9	1035.8	990.6	964.8
77.5°	2108.3	1352.4	585.8	607.3	583.6	715.0	977.7	928.2	867.9	820.5	803.3
80°	900.2	676.2	473.8	497.5	469.5	538.4	775.3	764.5	706.3	643.9	624.5
82.5°	413.5	348.9	379.0	389.8	342.4	404.9	566.4	566.4	534.1	447.9	415.6
85°	176.6	185.2	262.7	262.7	215.4	228.3	303.6	288.6	258.4	211.0	193.8
87.5°	60.3	90.4	133.5	116.3	45.2	19.4	10.8	4.3	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)