

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: P639768

Luminaire Tested: GWS-SA5C-740-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639768  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-740-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24207.7 lumens  
Efficiency: N/A  
Efficacy: 153.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 157.5  
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

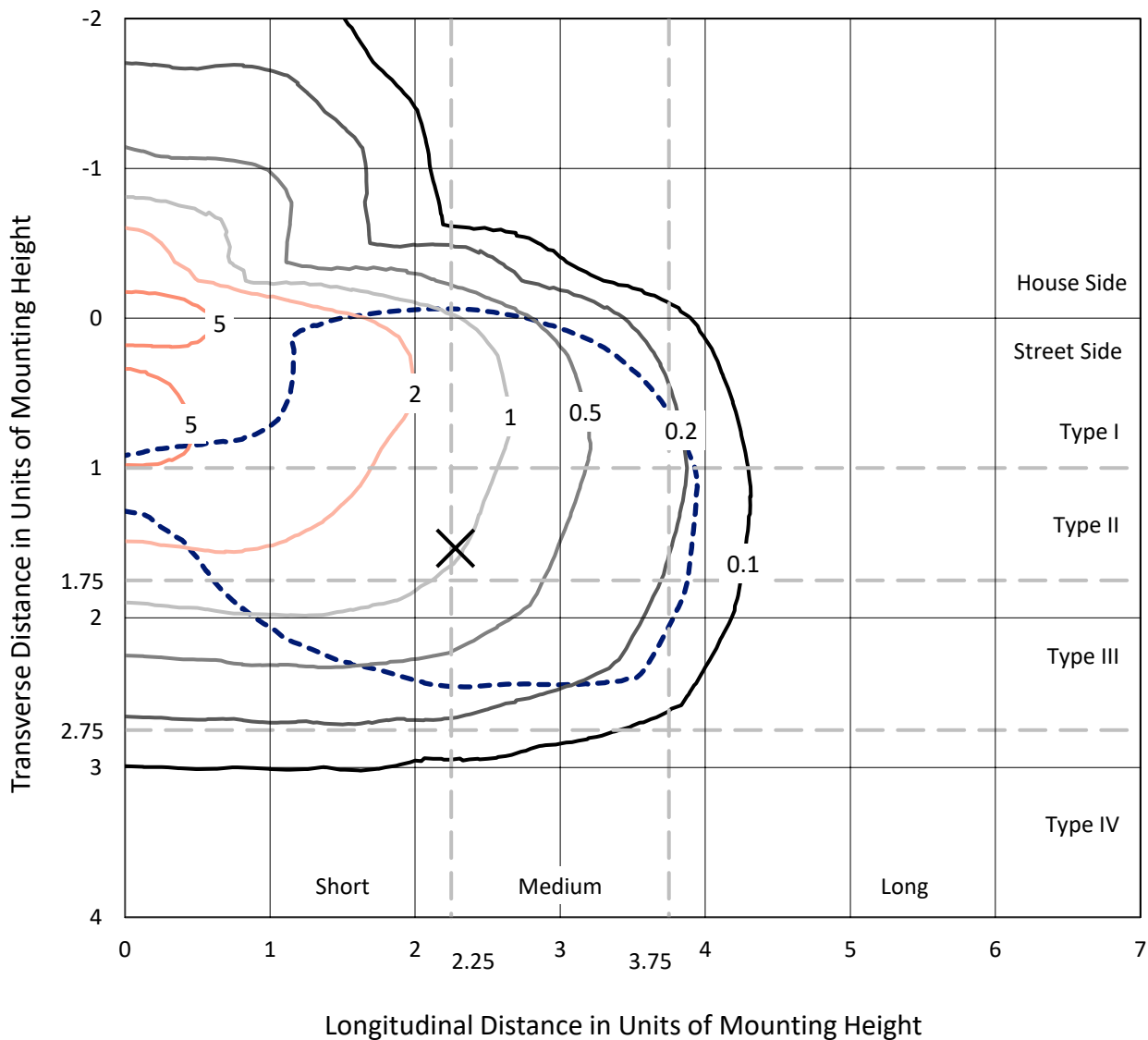


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### Iso-Footcandle Lines of Horizontal Illumination

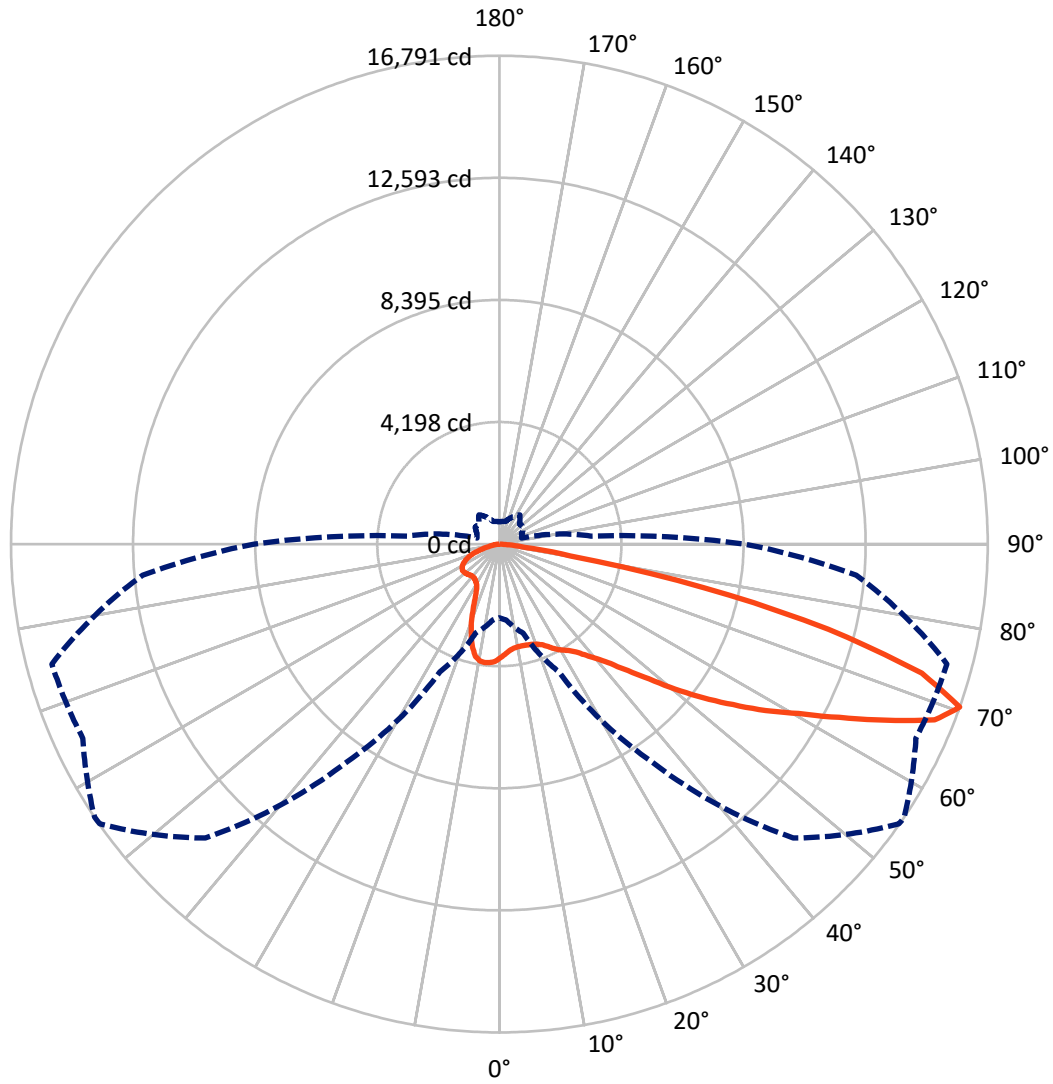
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4654.0	0.0	4654.0
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	19553.7	0.0	19553.7
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	24207.7	0.0	24207.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.6	1.5
10°-20°	979.8	4.0
20°-30°	1619.8	6.7
30°-40°	2421.8	10.0
40°-50°	3604.0	14.9
50°-60°	5123.8	21.2
60°-70°	6346.0	26.2
70°-80°	3504.1	14.5
80°-90°	246.8	1.0
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°	24207.7	100.0
0°-180°	24207.7	100.0

**Coefficient of Utilization**



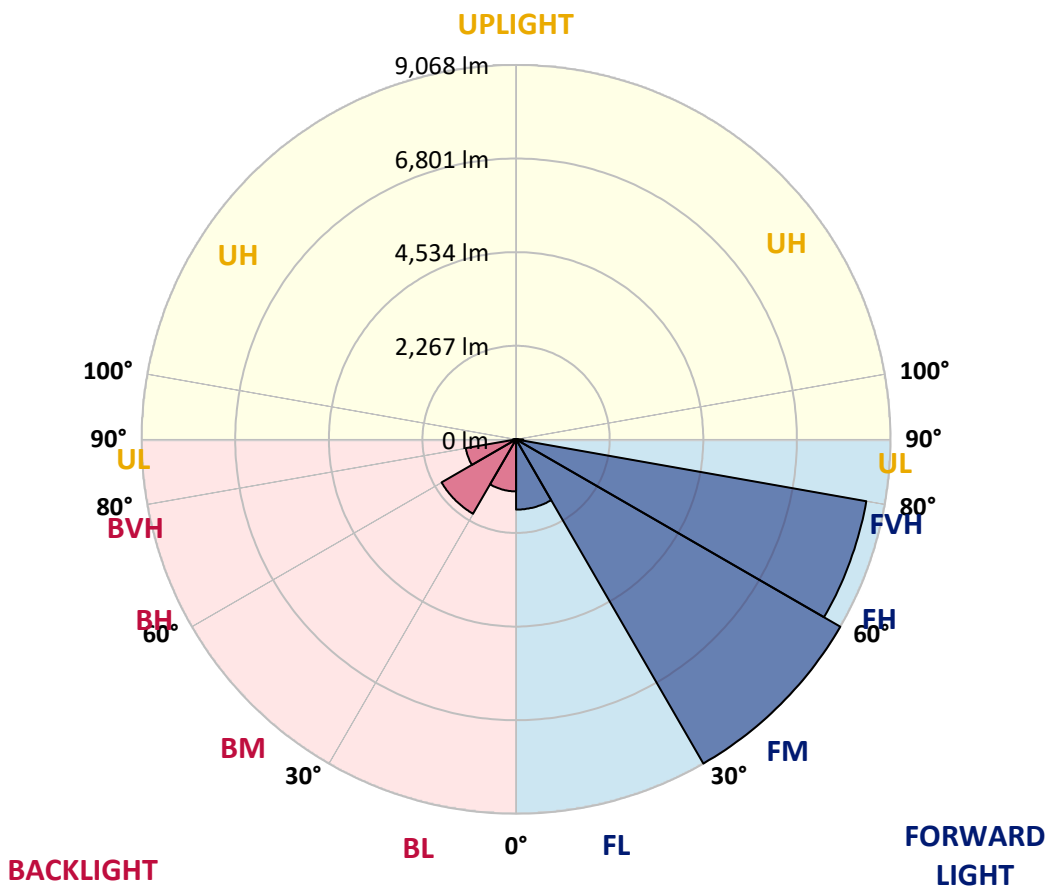
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1701.3	7.0			
FM (30°-60°)	9067.8	37.5			
FH (60°-80°)	8613.1	35.6			G4/12000
FVH (80°-90°)	171.5	0.7			G2/225
BL (0°-30°)	1259.9	5.2	B3/2500		
BM (30°-60°)	2081.8	8.6	B2/2500		
BH (60°-80°)	1237.0	5.1	B3/2500		G3/2500
BVH (80°-90°)	75.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5
2.5°	3656.6	3636.1	3660.0	3671.9	3702.6	3747.0	3786.3	3788.0	3808.5	3858.0	3905.8
5°	3491.0	3480.7	3487.6	3523.4	3555.8	3612.2	3671.9	3677.0	3735.1	3832.4	3928.0
7.5°	3362.9	3349.3	3374.9	3421.0	3461.9	3525.1	3603.6	3610.5	3692.4	3839.2	3986.0
10°	3178.6	3168.3	3216.1	3277.6	3366.4	3470.5	3574.6	3583.2	3690.7	3883.6	4088.4
12.5°	3098.3	3098.3	3118.8	3176.9	3274.2	3412.4	3569.5	3583.2	3718.0	3951.9	4219.9
15°	3223.0	3231.5	3214.4	3211.0	3250.3	3381.7	3576.3	3596.8	3769.2	4021.9	4349.6
17.5°	3473.9	3482.4	3438.0	3368.1	3328.8	3410.7	3601.9	3624.1	3823.8	4098.7	4489.6
20°	3825.6	3835.8	3738.5	3630.9	3496.1	3494.4	3651.4	3671.9	3893.8	4182.3	4638.1
22.5°	4237.0	4243.8	4120.9	3950.2	3743.6	3649.7	3736.8	3757.3	3984.3	4298.4	4798.6
25°	4713.2	4733.7	4585.2	4337.7	4057.7	3863.1	3878.5	3902.4	4146.5	4453.8	4988.1
27.5°	5221.9	5247.5	5076.8	4803.7	4417.9	4098.7	4061.1	4081.6	4318.9	4549.4	5088.8
30°	5742.6	5761.4	5590.7	5278.3	4805.4	4365.0	4214.8	4226.7	4394.0	4595.4	5191.2
32.5°	6321.3	6305.9	6142.1	5781.9	5252.7	4684.2	4358.2	4354.7	4477.7	4687.6	5338.0
35°	6864.1	6886.3	6712.2	6314.5	5744.3	5078.5	4573.3	4559.6	4655.2	4837.9	5544.6
37.5°	7521.4	7514.5	7306.3	6876.1	6237.7	5455.8	4875.4	4851.5	4885.6	5071.7	5833.1
40°	7990.8	8038.6	7903.8	7502.6	6814.6	5920.1	5228.8	5175.9	5184.4	5360.2	6218.9
42.5°	8374.9	8419.3	8433.0	8176.9	7475.3	6493.7	5669.2	5616.3	5621.4	5870.6	6693.4
45°	8670.2	8730.0	8922.9	8847.8	8219.6	7156.1	6265.0	6210.3	6213.8	6490.3	7267.0
47.5°	8791.4	8856.3	9247.2	9426.5	9009.9	7948.1	7005.8	6925.6	6937.6	7243.1	7922.5
50°	8752.2	8839.2	9368.4	9872.0	9672.3	8753.9	7891.8	7835.5	7789.4	8233.2	8634.4
52.5°	8414.2	8509.8	9356.5	10155.4	10213.4	9515.2	8806.8	8774.4	8764.1	9284.8	9429.9
55°	7418.9	7579.4	8945.1	10230.5	10636.8	10232.2	9798.6	9744.0	9796.9	10411.5	10233.9
57.5°	6867.6	6987.1	8139.3	10146.9	10983.3	10915.0	10788.7	10793.8	10853.6	11635.4	11208.7
60°	6553.5	6693.4	7692.1	9918.1	11316.2	11744.7	11824.9	11824.9	11932.5	12955.0	12198.8
62.5°	6136.9	6278.6	7273.8	9477.7	11623.5	12721.1	13127.4	13122.3	13165.0	14370.2	13166.7
65°	5291.9	5423.4	6434.0	8782.9	11773.7	13796.6	14607.4	14592.1	14506.7	15630.0	13806.8
67.5°	3842.6	3967.2	4928.3	7461.6	11232.6	14663.8	16131.9	16138.7	15628.3	16423.8	13841.0
70°	2533.3	2618.7	3168.3	4846.4	9134.6	14289.9	16770.3	16790.8	15800.7	15928.7	12318.3
72.5°	1580.8	1640.5	1978.5	2890.1	5397.8	11311.1	15131.5	15187.8	14214.8	13998.0	10121.2
75°	1049.9	1090.8	1316.2	1684.9	2497.5	6121.6	11502.3	11683.2	11393.0	10973.1	7051.9
77.5°	631.6	665.8	838.2	1070.3	1106.2	2391.6	6713.9	7181.7	7222.6	5728.9	2953.2
80°	288.5	327.8	462.6	611.1	588.9	833.1	2367.7	2477.0	2922.5	1819.7	932.1
82.5°	170.7	187.8	307.3	303.9	250.9	404.6	851.8	874.0	742.6	665.8	397.7
85°	68.3	80.2	129.7	114.4	92.2	131.4	320.9	336.3	322.6	290.2	146.8
87.5°	0.0	0.0	0.0	0.0	1.7	3.4	29.0	30.7	44.4	80.2	44.4
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°	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5
2.5°	3936.5	3926.3	3977.5	4016.7	4033.8	4050.9	4035.5	4030.4	4030.4	3996.3	3979.2
5°	3979.2	3984.3	4054.3	4086.7	4086.7	4073.1	4032.1	4003.1	3992.8	3948.5	3936.5
7.5°	4059.4	4081.6	4146.5	4144.8	4097.0	4021.9	3919.4	3840.9	3769.2	3738.5	3719.7
10°	4190.9	4219.9	4264.3	4192.6	4059.4	3861.4	3644.6	3473.9	3371.5	3289.5	3289.5
12.5°	4341.1	4368.4	4359.9	4194.3	3919.4	3549.0	3236.6	3040.3	2896.9	2821.8	2821.8
15°	4491.3	4513.5	4421.3	4115.8	3627.5	3134.2	2792.8	2557.2	2432.6	2362.6	2362.6
17.5°	4643.2	4641.5	4446.9	3934.8	3246.9	2675.0	2340.4	2157.7	2115.1	2103.1	2101.4
20°	4790.1	4750.8	4414.5	3632.7	2804.7	2212.4	2000.7	2012.6	2075.8	2103.1	2106.5
22.5°	4955.6	4858.3	4318.9	3246.9	2302.8	1891.4	1905.1	2004.1	2096.3	2137.3	2142.4
25°	5124.6	4950.5	4158.4	2794.5	1882.9	1773.7	1879.5	1990.4	2094.6	2147.5	2152.6
27.5°	5192.9	4950.5	3885.3	2270.4	1659.3	1724.1	1840.2	1947.8	2057.0	2118.5	2130.4
30°	5249.3	4907.8	3502.9	1797.6	1567.1	1676.3	1777.1	1876.1	1983.6	2058.7	2072.4
32.5°	5327.8	4870.3	3040.3	1510.8	1524.4	1630.3	1700.2	1783.9	1881.2	1930.7	1925.6
35°	5420.0	4812.2	2482.1	1374.2	1488.6	1591.0	1640.5	1690.0	1645.6	1643.9	1649.0
37.5°	5551.4	4761.0	1995.6	1312.7	1464.7	1563.7	1604.7	1498.8	1437.4	1411.8	1401.5
40°	5740.9	4740.5	1573.9	1276.9	1461.3	1562.0	1533.0	1369.1	1285.4	1196.7	1195.0
42.5°	5979.9	4725.2	1300.8	1259.8	1473.2	1601.2	1433.9	1283.7	1111.3	1072.0	1068.6
45°	6287.2	4701.3	1164.2	1256.4	1502.2	1632.0	1423.7	1165.9	1048.1	1031.1	1031.1
47.5°	6657.6	4663.7	1102.8	1256.4	1534.7	1618.3	1393.0	1140.3	1019.1	1037.9	1049.9
50°	7082.7	4615.9	1070.3	1253.0	1567.1	1618.3	1328.1	1135.2	1012.3	1109.6	1148.9
52.5°	7536.7	4561.3	1048.1	1239.3	1589.3	1620.0	1331.5	1152.3	1019.1	1126.7	1159.1
55°	8038.6	4552.8	1017.4	1210.3	1596.1	1575.6	1340.1	1189.8	1029.4	1020.8	1022.5
57.5°	8671.9	4655.2	995.2	1167.6	1568.8	1485.2	1357.1	1217.1	1017.4	1019.1	1031.1
60°	9334.3	4848.1	1014.0	1126.7	1512.5	1399.8	1369.1	1203.5	959.4	932.1	935.5
62.5°	9897.6	4994.9	1029.4	1107.9	1430.5	1324.7	1357.1	1172.8	926.9	920.1	935.5
65°	10133.2	4873.7	991.8	1068.6	1311.0	1232.5	1331.5	1133.5	899.6	874.0	875.7
67.5°	9872.0	4305.2	918.4	981.6	1176.2	1114.7	1290.5	1082.3	862.1	831.3	824.5
70°	8433.0	3163.2	792.1	843.3	1012.3	976.4	1227.4	1015.7	802.3	780.1	764.8
72.5°	6795.9	2239.7	657.2	670.9	793.8	822.8	1118.1	932.1	734.0	670.9	648.7
75°	4730.3	1406.6	548.0	534.3	573.6	628.2	872.3	773.3	633.3	566.7	546.3
77.5°	2034.8	722.1	428.5	421.6	382.4	435.3	669.2	645.3	530.9	454.1	442.1
80°	681.1	418.2	309.0	297.0	254.4	305.6	471.2	515.5	416.5	336.3	315.8
82.5°	341.4	242.4	196.3	177.5	170.7	192.9	278.3	320.9	288.5	232.2	196.3
85°	167.3	138.3	107.5	105.8	88.8	83.6	116.1	136.6	129.7	95.6	90.5
87.5°	61.5	54.6	34.1	27.3	17.1	11.9	6.8	6.8	5.1	5.1	5.1
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)