

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: P640483

Luminaire Tested: GWS-SA5D-830-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640483  
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-SA5D-830-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

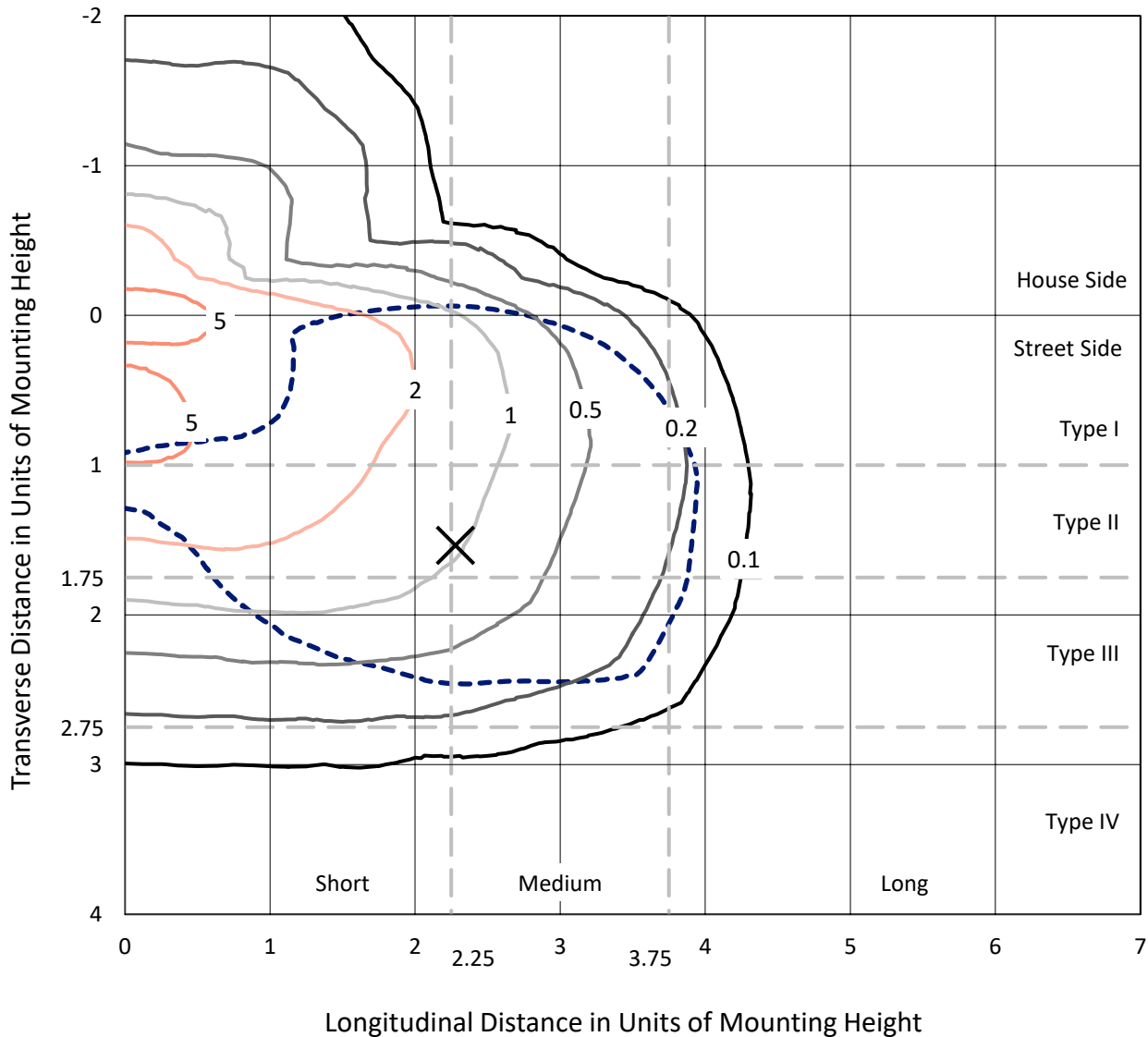
Lumens per Lamp: N/A  
Luminaire Lumens: 24260.2 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

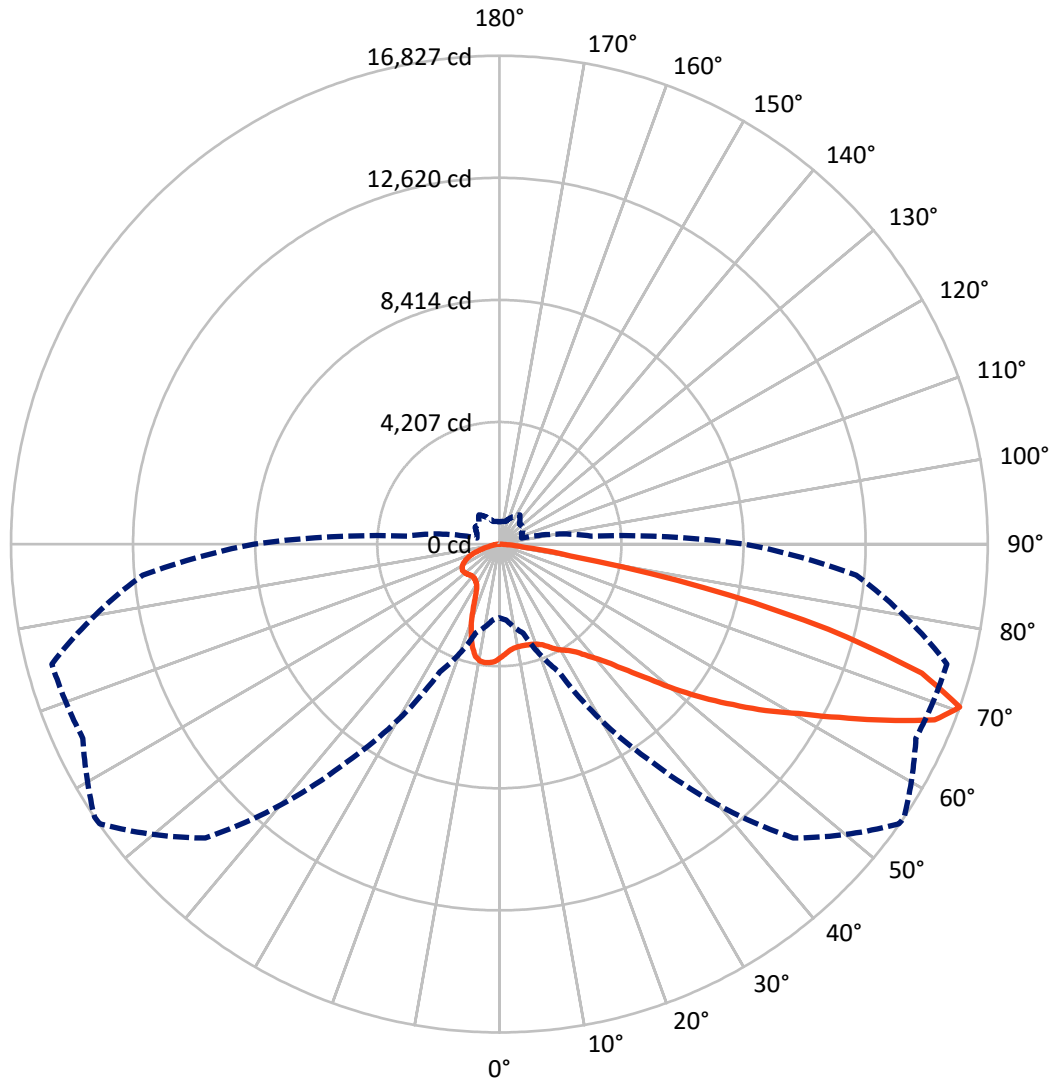
✕ Max cd  
 - - - 1/2 Max cd



Based on 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	4664.1	0.0	4664.1
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	19596.1	0.0	19596.1
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	24260.2	0.0	24260.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	362.4	1.5
10°-20°	981.9	4.0
20°-30°	1623.3	6.7
30°-40°	2427.1	10.0
40°-50°	3611.8	14.9
50°-60°	5134.9	21.2
60°-70°	6359.8	26.2
70°-80°	3511.7	14.5
80°-90°	247.3	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°	24260.2	100.0
0°-180°	24260.2	100.0

**Coefficient of Utilization**



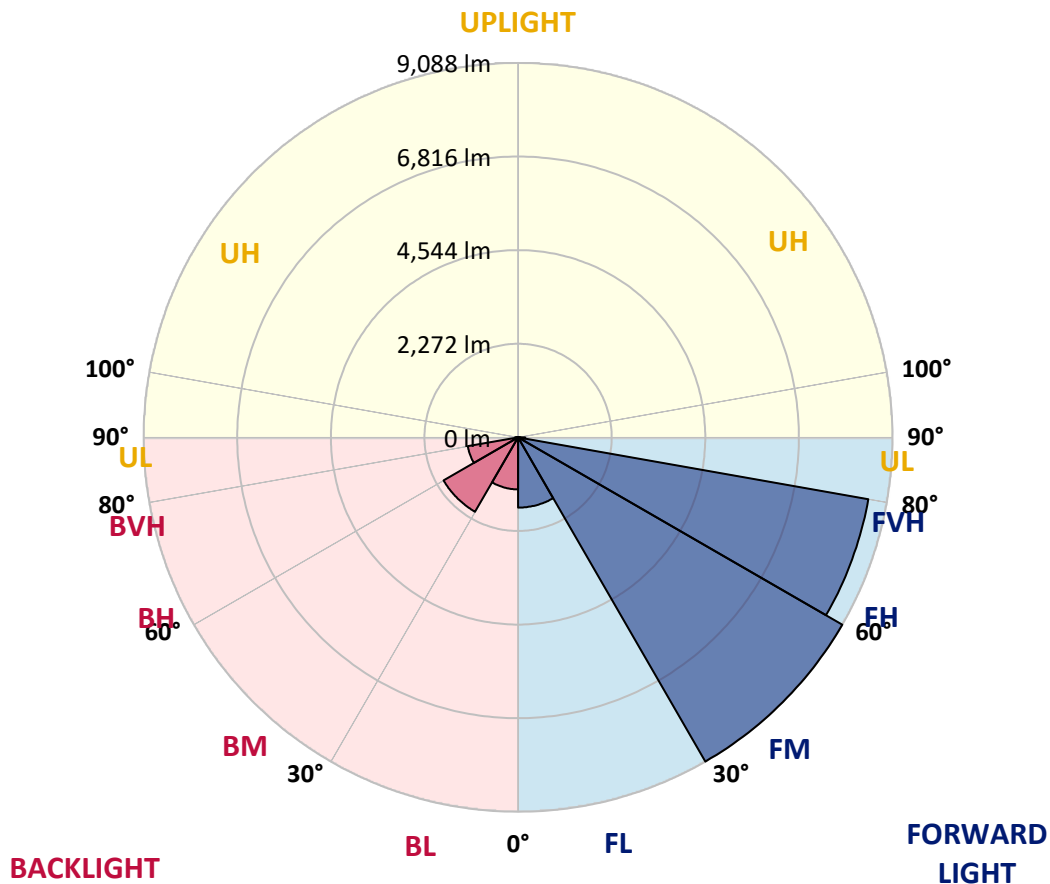
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1705.0	7.0			
FM (30°-60°)	9087.5	37.5			
FH (60°-80°)	8631.8	35.6			G4/12000
FVH (80°-90°)	171.9	0.7			G2/225
BL (0°-30°)	1262.6	5.2	B3/2500		
BM (30°-60°)	2086.3	8.6	B2/2500		
BH (60°-80°)	1239.7	5.1	B3/2500		G3/2500
BVH (80°-90°)	75.5	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°	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0
2.5°	3664.5	3644.0	3667.9	3679.9	3710.7	3755.2	3794.5	3796.2	3816.7	3866.4	3914.3
5°	3498.5	3488.3	3495.1	3531.0	3563.5	3620.0	3679.9	3685.0	3743.2	3840.7	3936.5
7.5°	3370.2	3356.5	3382.2	3428.4	3469.5	3532.8	3611.5	3618.3	3700.4	3847.5	3994.7
10°	3185.5	3175.2	3223.1	3284.7	3373.7	3478.0	3582.4	3590.9	3698.7	3892.0	4097.3
12.5°	3105.1	3105.1	3125.6	3183.8	3281.3	3419.8	3577.2	3590.9	3726.1	3960.4	4229.0
15°	3229.9	3238.5	3221.4	3218.0	3257.3	3389.0	3584.1	3604.6	3777.4	4030.6	4359.1
17.5°	3481.4	3490.0	3445.5	3375.4	3336.0	3418.1	3609.7	3632.0	3832.1	4107.6	4499.3
20°	3833.9	3844.1	3746.6	3638.8	3503.7	3502.0	3659.4	3679.9	3902.3	4191.4	4648.2
22.5°	4246.1	4253.0	4129.8	3958.7	3751.7	3657.6	3744.9	3765.4	3993.0	4307.7	4809.0
25°	4723.5	4744.0	4595.1	4347.1	4066.5	3871.5	3886.9	3910.8	4155.5	4463.4	4998.9
27.5°	5233.3	5258.9	5087.9	4814.1	4427.5	4107.6	4069.9	4090.5	4328.3	4559.2	5099.8
30°	5755.1	5773.9	5602.8	5289.7	4815.8	4374.5	4223.9	4235.9	4403.5	4605.4	5202.5
32.5°	6335.0	6319.6	6155.4	5794.4	5264.1	4694.4	4367.6	4364.2	4487.4	4697.8	5349.6
35°	6879.0	6901.3	6726.8	6328.2	5756.8	5089.6	4583.2	4569.5	4665.3	4848.3	5556.6
37.5°	7537.7	7530.8	7322.1	6891.0	6251.2	5467.6	4886.0	4862.0	4896.2	5082.7	5845.7
40°	8008.1	8056.1	7920.9	7518.9	6829.4	5933.0	5240.1	5187.1	5195.6	5371.8	6232.4
42.5°	8393.1	8437.6	8451.2	8194.6	7491.5	6507.8	5681.5	5628.5	5633.6	5883.4	6708.0
45°	8689.0	8748.9	8942.2	8867.0	8237.4	7171.6	6278.6	6223.8	6227.2	6504.4	7282.8
47.5°	8810.5	8875.5	9267.3	9446.9	9029.5	7965.4	7021.0	6940.6	6952.6	7258.8	7939.7
50°	8771.2	8858.4	9388.7	9893.4	9693.3	8772.9	7908.9	7852.5	7806.3	8251.1	8653.1
52.5°	8432.4	8528.2	9376.8	10177.4	10235.6	9535.9	8825.9	8793.4	8783.1	9304.9	9450.3
55°	7435.0	7595.9	8964.5	10252.7	10659.9	10254.4	9819.9	9765.1	9818.2	10434.0	10256.1
57.5°	6882.5	7002.2	8157.0	10168.9	11007.1	10938.7	10812.1	10817.2	10877.1	11660.7	11233.0
60°	6567.7	6708.0	7708.8	9939.6	11340.7	11770.1	11850.6	11850.6	11958.3	12983.1	12225.2
62.5°	6150.2	6292.2	7289.6	9498.2	11648.7	12748.7	13155.9	13150.7	13193.5	14401.3	13195.2
65°	5303.4	5435.1	6447.9	8801.9	11799.2	13826.5	14639.1	14623.7	14538.2	15663.9	13836.8
67.5°	3851.0	3975.8	4939.0	7477.8	11256.9	14695.6	16166.8	16173.7	15662.2	16459.4	13871.0
70°	2538.8	2624.3	3175.2	4856.9	9154.4	14320.9	16806.7	16827.2	15835.0	15963.3	12345.0
72.5°	1584.2	1644.1	1982.8	2896.3	5409.5	11335.6	15164.3	15220.8	14245.6	14028.4	10143.2
75°	1052.1	1093.2	1319.0	1688.5	2502.9	6134.8	11527.2	11708.6	11417.7	10996.9	7067.2
77.5°	633.0	667.2	840.0	1072.7	1108.6	2396.8	6728.5	7197.2	7238.3	5741.4	2959.6
80°	289.1	328.5	463.6	612.5	590.2	834.9	2372.8	2482.3	2928.9	1823.7	934.1
82.5°	171.1	188.2	307.9	304.5	251.5	405.5	853.7	875.9	744.2	667.2	398.6
85°	68.4	80.4	130.0	114.6	92.4	131.7	321.6	337.0	323.3	290.8	147.1
87.5°	0.0	0.0	0.0	0.0	1.7	3.4	29.1	30.8	44.5	80.4	44.5
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°	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0	3916.0
2.5°	3945.1	3934.8	3986.1	4025.5	4042.6	4059.7	4044.3	4039.1	4039.1	4004.9	3987.8
5°	3987.8	3993.0	4063.1	4095.6	4095.6	4081.9	4040.9	4011.8	4001.5	3957.0	3945.1
7.5°	4068.2	4090.5	4155.5	4153.8	4105.9	4030.6	3927.9	3849.2	3777.4	3746.6	3727.8
10°	4200.0	4229.0	4273.5	4201.7	4068.2	3869.8	3652.5	3481.4	3378.8	3296.7	3296.7
12.5°	4350.5	4377.9	4369.3	4203.4	3927.9	3556.7	3243.6	3046.9	2903.2	2827.9	2827.9
15°	4501.1	4523.3	4430.9	4124.7	3635.4	3141.0	2798.8	2562.7	2437.9	2367.7	2367.7
17.5°	4653.3	4651.6	4456.6	3943.3	3253.9	2680.8	2345.5	2162.4	2119.7	2107.7	2106.0
20°	4800.4	4761.1	4424.1	3640.5	2810.8	2217.2	2005.0	2017.0	2080.3	2107.7	2111.1
22.5°	4966.4	4868.9	4328.3	3253.9	2307.8	1895.5	1909.2	2008.5	2100.8	2141.9	2147.0
25°	5135.8	4961.3	4167.5	2800.5	1887.0	1777.5	1883.6	1994.8	2099.1	2152.2	2157.3
27.5°	5204.2	4961.3	3893.7	2275.3	1662.9	1727.9	1844.2	1952.0	2061.5	2123.1	2135.1
30°	5260.6	4918.5	3510.5	1801.4	1570.5	1680.0	1780.9	1880.1	1987.9	2063.2	2076.9
32.5°	5339.3	4880.8	3046.9	1514.0	1527.7	1633.8	1703.9	1787.8	1885.3	1934.9	1929.8
35°	5431.7	4822.7	2487.5	1377.2	1491.8	1594.4	1644.1	1693.7	1649.2	1647.5	1652.6
37.5°	5563.4	4771.4	1999.9	1315.6	1467.8	1567.1	1608.1	1502.1	1440.5	1414.8	1404.5
40°	5753.3	4750.8	1577.3	1279.7	1464.4	1565.4	1536.3	1372.0	1288.2	1199.3	1197.5
42.5°	5992.9	4735.4	1303.6	1262.6	1476.4	1604.7	1437.1	1286.5	1113.7	1074.4	1070.9
45°	6300.8	4711.5	1166.8	1259.1	1505.5	1635.5	1426.8	1168.5	1050.4	1033.3	1033.3
47.5°	6672.0	4673.8	1105.2	1259.1	1538.0	1621.8	1396.0	1142.8	1021.3	1040.2	1052.1
50°	7098.0	4625.9	1072.7	1255.7	1570.5	1621.8	1331.0	1137.7	1014.5	1112.0	1151.4
52.5°	7553.1	4571.2	1050.4	1242.0	1592.7	1623.5	1334.4	1154.8	1021.3	1129.1	1161.6
55°	8056.1	4562.6	1019.6	1212.9	1599.6	1579.0	1343.0	1192.4	1031.6	1023.0	1024.8
57.5°	8690.7	4665.3	997.4	1170.2	1572.2	1488.4	1360.1	1219.8	1019.6	1021.3	1033.3
60°	9354.5	4858.6	1016.2	1129.1	1515.7	1402.8	1372.0	1206.1	961.5	934.1	937.5
62.5°	9919.1	5005.7	1031.6	1110.3	1433.6	1327.6	1360.1	1175.3	929.0	922.1	937.5
65°	10155.2	4884.3	994.0	1070.9	1313.9	1235.2	1334.4	1136.0	901.6	875.9	877.6
67.5°	9893.4	4314.6	920.4	983.7	1178.7	1117.1	1293.3	1084.6	863.9	833.1	826.3
70°	8451.2	3170.1	793.8	845.1	1014.5	978.6	1230.0	1017.9	804.1	781.8	766.4
72.5°	6810.6	2244.5	658.6	672.3	795.5	824.6	1120.6	934.1	735.6	672.3	650.1
75°	4740.6	1409.7	549.2	535.5	574.8	629.6	874.2	775.0	634.7	568.0	547.4
77.5°	2039.2	723.7	429.4	422.6	383.2	436.2	670.6	646.7	532.1	455.1	443.1
80°	682.6	419.1	309.7	297.7	254.9	306.2	472.2	516.7	417.4	337.0	316.5
82.5°	342.2	242.9	196.7	177.9	171.1	193.3	278.9	321.6	289.1	232.7	196.7
85°	167.7	138.6	107.8	106.1	89.0	83.8	116.3	136.9	130.0	95.8	90.7
87.5°	61.6	54.7	34.2	27.4	17.1	12.0	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)