

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: P640225

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30591.1 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

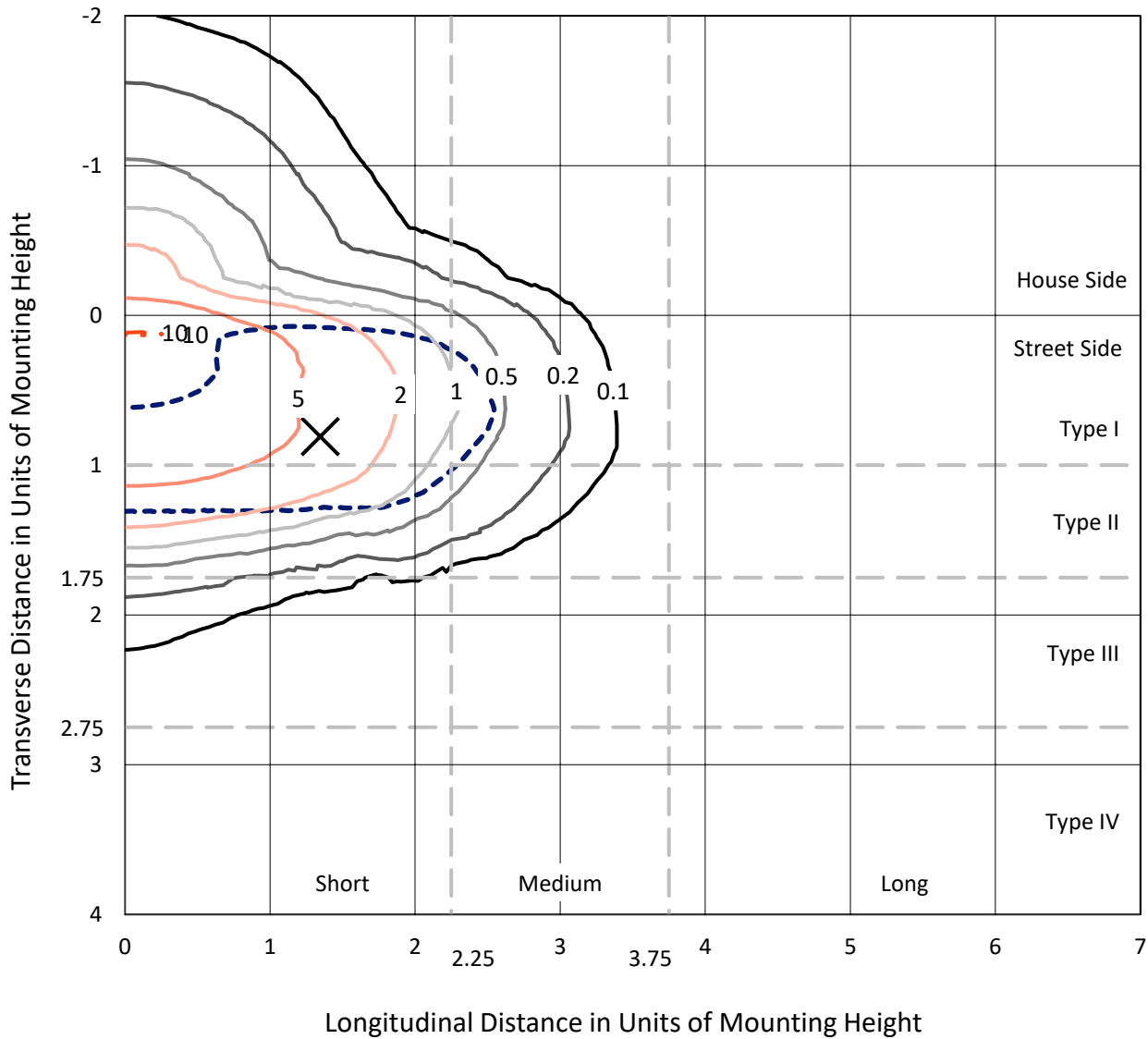
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

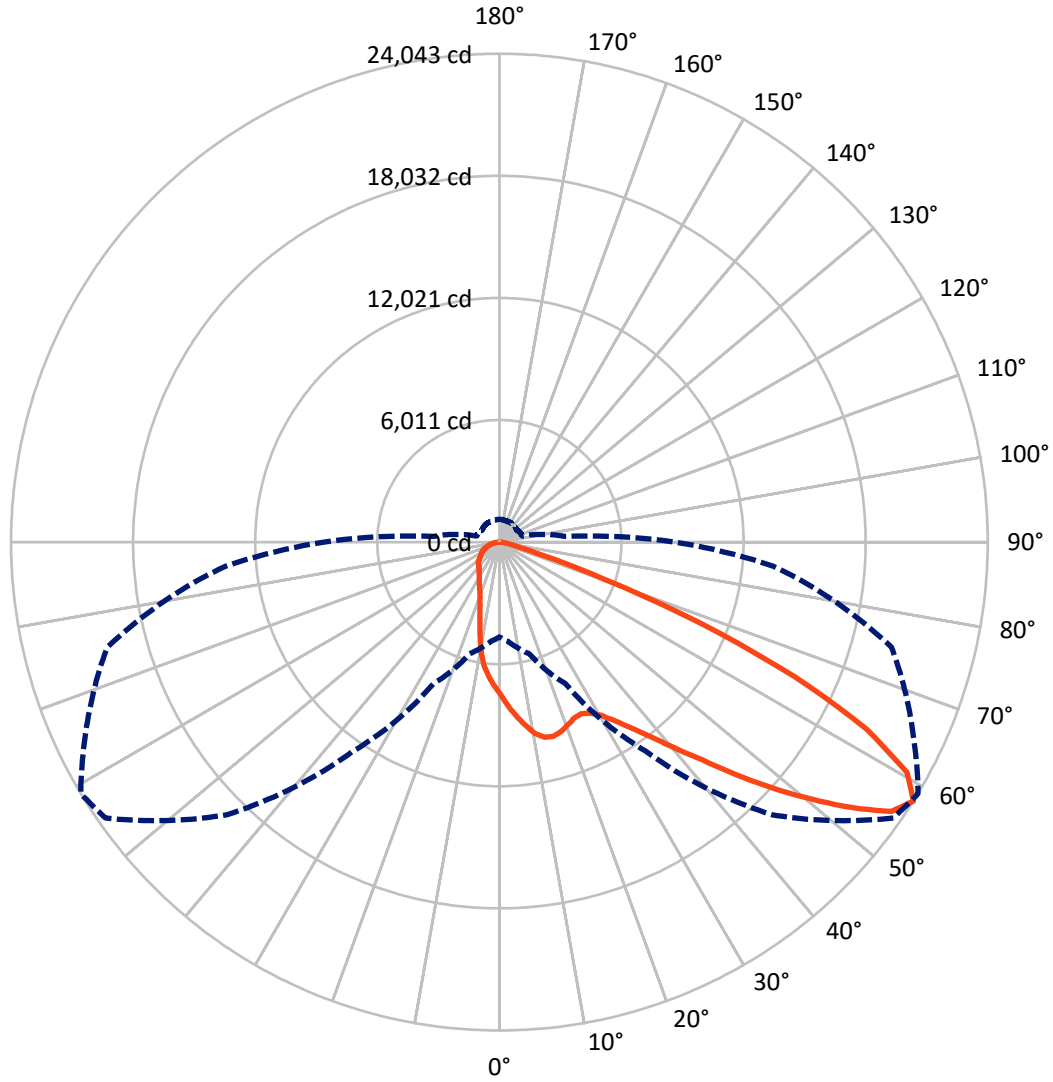
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4747.6	0.0	4747.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	25843.5	0.0	25843.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	30591.1	0.0	30591.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.3	2.3
10°-20°	1766.9	5.8
20°-30°	2864.1	9.4
30°-40°	4607.3	15.1
40°-50°	7154.8	23.4
50°-60°	7706.6	25.2
60°-70°	4472.6	14.6
70°-80°	1167.6	3.8
80°-90°	153.8	0.5
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°	30591.1	100.0
0°-180°	30591.1	100.0

Coefficient of Utilization



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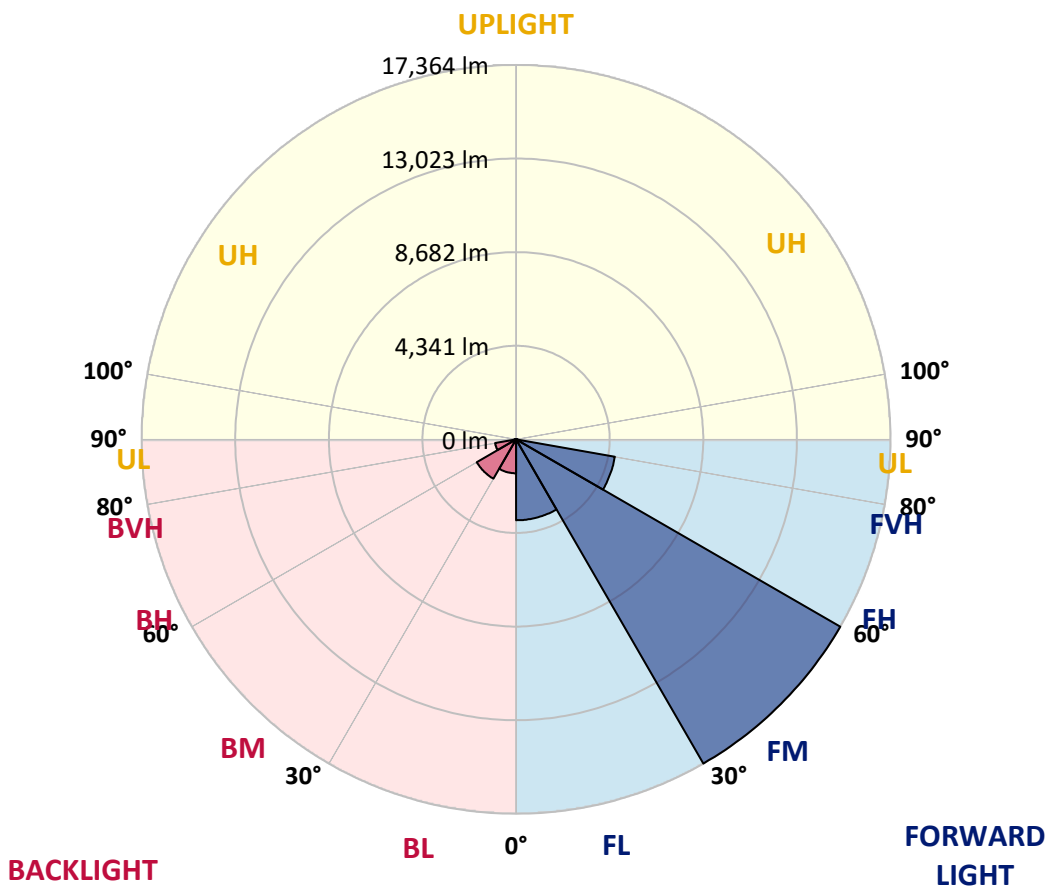
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3753.2	12.3			
FM (30°-60°)	17363.9	56.8			
FH (60°-80°)	4652.8	15.2			G2/5000
FVH (80°-90°)	73.6	0.2			G1/100
BL (0°-30°)	1575.1	5.1	B3/2500		
BM (30°-60°)	2104.9	6.9	B2/2500		
BH (60°-80°)	987.5	3.2	B2/1000		G2/1000
BVH (80°-90°)	80.2	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5
2.5°	8517.4	8446.3	8495.8	8407.5	8370.9	8274.0	8149.1	8065.1	7935.9	7767.9	7621.5
5°	9363.7	9314.2	9325.0	9230.2	9146.2	8984.7	8728.4	8586.3	8366.6	8028.5	7714.1
7.5°	9337.9	9396.0	9428.3	9510.2	9533.9	9518.8	9288.4	9090.2	8849.0	8340.8	7867.0
10°	8370.9	8480.8	8579.8	8859.8	9200.1	9630.8	9684.6	9566.2	9322.8	8739.2	8050.0
12.5°	7317.8	7401.8	7490.1	7826.1	8347.2	9208.7	9792.3	9865.5	9768.6	9133.3	8256.8
15°	6801.0	6839.7	6923.7	7145.5	7561.2	8517.4	9604.9	9925.8	10100.2	9551.1	8489.4
17.5°	6779.4	6796.7	6837.6	6956.0	7244.6	7983.3	9266.8	9805.2	10360.8	9992.6	8760.7
20°	7225.2	7180.0	7154.2	7152.0	7294.1	7804.5	8939.5	9611.4	10483.6	10444.8	9051.5
22.5°	7843.3	7858.4	7802.4	7664.6	7647.3	7931.6	8775.8	9415.4	10520.2	10845.4	9320.7
25°	8719.8	8795.2	8629.4	8366.6	8237.4	8299.9	8877.0	9355.1	10515.9	11179.2	9488.6
27.5°	9742.8	9800.9	9632.9	9288.4	9021.3	8870.6	9178.5	9533.9	10552.5	11467.8	9589.9
30°	10907.8	10927.2	10696.8	10335.0	9945.2	9622.2	9680.3	9902.1	10739.9	11846.8	9708.3
32.5°	12331.3	12413.2	12064.3	11491.5	10946.6	10533.1	10354.4	10496.5	11144.7	12294.7	9891.4
35°	14138.2	14166.2	13722.6	12902.0	12131.1	11558.2	11183.5	11258.9	11760.7	12921.4	10167.0
37.5°	15841.7	15869.7	15398.0	14635.7	13533.0	12749.1	12206.4	12172.0	12548.9	13806.5	10617.1
40°	16922.8	17002.4	16791.4	16313.3	15260.2	14202.8	13466.3	13347.8	13582.6	14889.8	11243.8
42.5°	17504.2	17538.7	17534.4	17596.8	16970.1	15919.2	14887.6	14650.7	14808.0	16059.2	11876.9
45°	17508.5	17594.7	17825.1	18426.0	18454.0	17799.3	16683.7	16313.3	16169.0	17237.2	12538.1
47.5°	16724.6	16817.2	17450.4	18632.7	19504.9	19653.5	18835.1	18092.2	17484.8	18251.5	13080.8
50°	14351.4	14584.0	15790.0	17881.1	19711.6	21139.5	20887.5	19879.6	18654.2	19035.4	13421.1
52.5°	12290.4	12281.8	13024.8	15757.7	18848.1	21794.1	22873.1	21718.8	19810.7	19532.9	13507.2
55°	8999.8	9049.3	9809.5	12051.4	16543.7	21161.0	23964.9	23411.5	21137.3	19797.8	13472.7
57.5°	4666.8	4912.3	5691.9	7690.4	12570.4	18981.6	23674.2	24042.5	22485.4	19985.1	13518.0
60°	2358.2	2310.8	2590.7	3671.8	7283.4	14825.2	21882.4	23056.1	22728.8	20131.6	13546.0
62.5°	1574.3	1561.3	1483.8	1701.3	2976.2	8780.1	18654.2	20299.6	21038.2	19787.0	13188.5
65°	1363.2	1337.4	1195.2	1186.6	1445.0	3641.7	13673.0	15958.0	17387.9	18255.8	12333.5
67.5°	1227.5	1188.8	1044.5	973.4	1038.0	1600.1	7705.5	10703.2	12839.6	15439.0	10459.9
70°	1096.2	1076.8	932.5	829.1	822.7	975.6	2838.4	5523.9	7856.2	10533.1	7647.3
72.5°	982.0	947.6	824.8	725.8	676.2	691.3	1231.8	2127.7	4065.9	6570.5	4574.2
75°	850.7	824.8	717.1	618.1	557.8	506.1	751.6	984.2	1854.2	3122.7	2160.0
77.5°	656.8	639.6	566.4	491.0	456.6	376.9	456.6	620.2	857.1	1315.8	1124.2
80°	381.2	391.9	422.1	383.3	336.0	269.2	297.2	357.5	514.7	712.8	637.5
82.5°	191.7	204.6	273.5	221.8	200.3	157.2	176.6	211.0	269.2	394.1	249.8
85°	15.1	15.1	49.5	56.0	68.9	56.0	71.1	86.1	122.8	157.2	84.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.5	10.8	19.4	36.6	23.7
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°	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5
2.5°	7522.4	7412.6	7281.2	7173.5	7007.7	6919.4	6807.4	6669.6	6613.6	6587.8	6572.7
5°	7537.5	7343.7	7063.7	6805.3	6518.9	6292.7	6040.8	5778.0	5627.3	5590.7	5564.8
7.5°	7593.5	7322.1	6876.4	6449.9	5918.0	5424.8	4944.6	4468.7	4225.3	4132.7	4124.1
10°	7671.0	7313.5	6686.8	5978.3	5080.3	4300.7	3738.6	3366.0	3208.8	3157.1	3139.9
12.5°	7767.9	7307.1	6437.0	5323.6	4113.3	3376.8	3055.9	2995.6	3017.2	3012.8	3012.8
15°	7890.7	7315.7	6135.5	4582.8	3327.3	2931.0	2937.5	3008.5	3075.3	3086.1	3086.1
17.5°	8024.2	7307.1	5698.3	3839.8	2855.6	2825.5	2924.5	3023.6	3083.9	3092.5	3092.5
20°	8168.5	7266.1	5147.0	3139.9	2648.9	2758.7	2866.4	2943.9	2980.5	2989.2	2989.2
22.5°	8254.6	7149.9	4548.3	2657.5	2517.5	2653.2	2724.3	2803.9	2808.3	2739.3	2737.2
25°	8241.7	6932.3	3865.7	2347.4	2377.5	2496.0	2586.4	2530.4	2461.5	2422.8	2416.3
27.5°	8159.9	6605.0	3170.1	2112.7	2211.7	2345.2	2317.2	2269.9	2252.6	2209.6	2205.3
30°	8056.5	6202.3	2545.5	1929.6	2039.4	2162.2	2119.1	2114.8	2097.6	2050.2	2050.2
32.5°	7957.4	5786.6	2073.9	1793.9	1929.6	1938.2	1998.5	2002.8	1994.2	1912.4	1903.8
35°	7929.4	5371.0	1755.2	1686.2	1821.9	1817.6	1903.8	1901.6	1753.0	1638.9	1636.7
37.5°	8013.4	4948.9	1565.6	1597.9	1673.3	1729.3	1798.2	1673.3	1623.8	1554.9	1550.6
40°	8192.2	4559.1	1468.7	1546.3	1578.6	1660.4	1552.7	1561.3	1548.4	1496.7	1490.3
42.5°	8429.1	4227.5	1414.9	1529.0	1524.7	1546.3	1427.8	1462.3	1481.7	1442.9	1436.4
45°	8657.4	3938.9	1386.9	1464.4	1486.0	1361.1	1337.4	1369.7	1399.8	1384.7	1378.3
47.5°	8825.3	3689.1	1371.8	1376.1	1436.4	1298.6	1259.8	1274.9	1311.5	1318.0	1315.8
50°	8877.0	3475.9	1354.6	1302.9	1290.0	1236.1	1206.0	1201.7	1244.8	1274.9	1279.2
52.5°	8778.0	3286.3	1309.4	1238.3	1175.8	1184.5	1173.7	1152.2	1195.2	1236.1	1240.5
55°	8631.5	3178.7	1238.3	1175.8	1102.6	1137.1	1141.4	1122.0	1150.0	1178.0	1178.0
57.5°	8642.3	3241.1	1169.4	1117.7	1038.0	1083.2	1106.9	1098.3	1098.3	1119.9	1122.0
60°	8713.3	3331.6	1124.2	1044.5	973.4	1020.8	1074.6	1066.0	1046.6	1074.6	1074.6
62.5°	8508.8	3211.0	1094.0	973.4	904.5	960.5	1025.1	1020.8	999.3	1044.5	1048.8
65°	7905.8	2887.9	1059.6	885.1	835.6	900.2	956.2	971.3	951.9	1012.2	1022.9
67.5°	6626.5	2429.2	992.8	801.1	766.7	827.0	880.8	902.3	887.3	958.3	967.0
70°	4940.3	1966.2	887.3	708.5	682.7	736.5	786.1	794.7	796.8	880.8	889.4
72.5°	3150.7	1529.0	747.3	605.2	585.8	626.7	663.3	697.8	712.8	792.5	790.4
75°	1757.3	1137.1	600.8	512.5	478.1	510.4	553.5	594.4	637.5	753.7	766.7
77.5°	1012.2	799.0	475.9	411.3	370.4	404.9	441.5	499.6	628.8	730.1	717.1
80°	570.7	519.0	359.6	301.5	275.7	301.5	329.5	439.3	495.3	538.4	544.9
82.5°	267.0	290.7	245.5	185.2	185.2	202.4	228.3	340.3	374.7	305.8	267.0
85°	96.9	131.4	120.6	94.8	84.0	81.8	142.1	193.8	120.6	107.7	92.6
87.5°	25.8	36.6	34.5	23.7	12.9	10.8	0.0	0.0	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)