

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: P640335

Luminaire Tested: GWS-SA5D-760-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640335
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-760-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30863.3 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

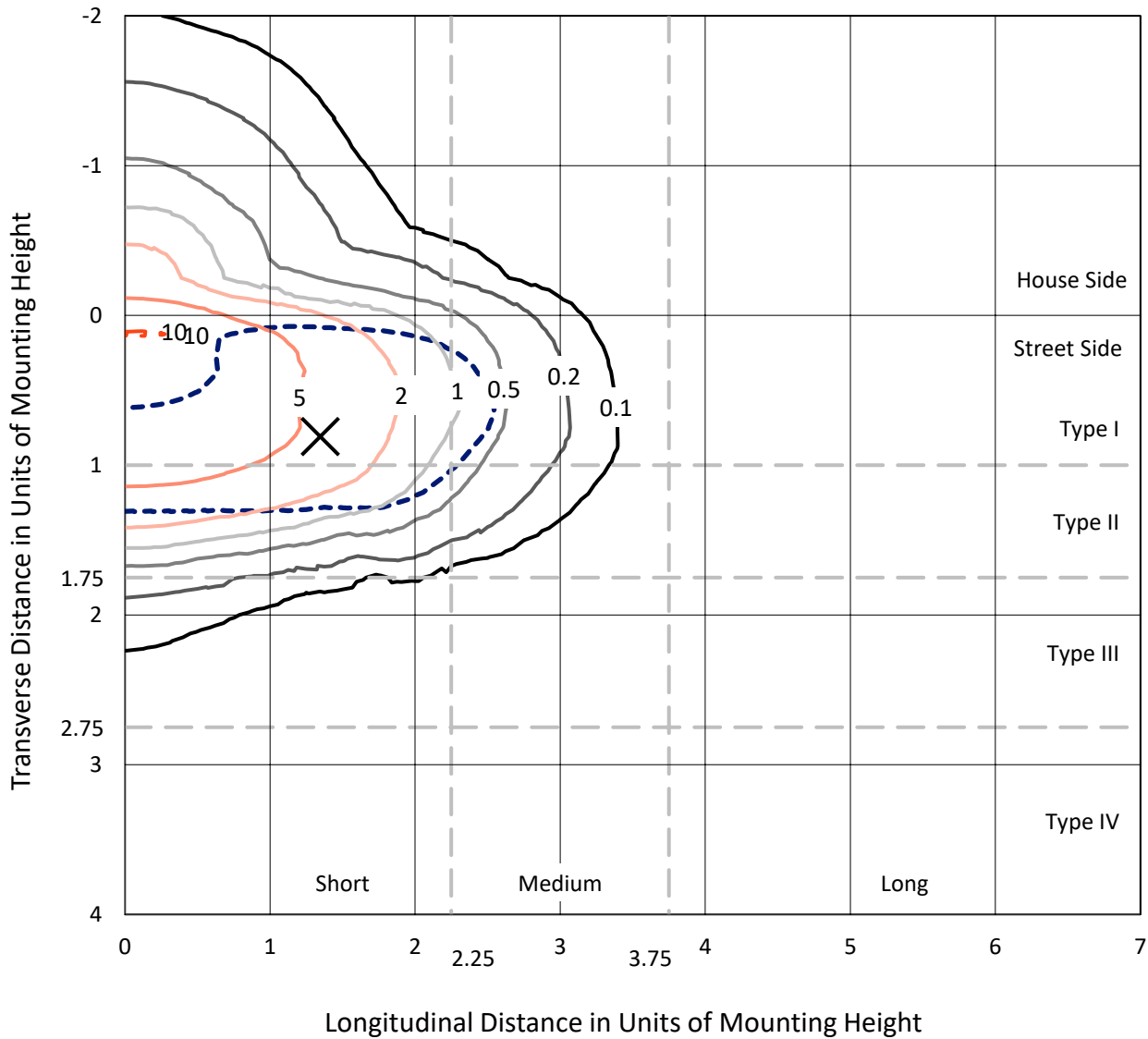
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

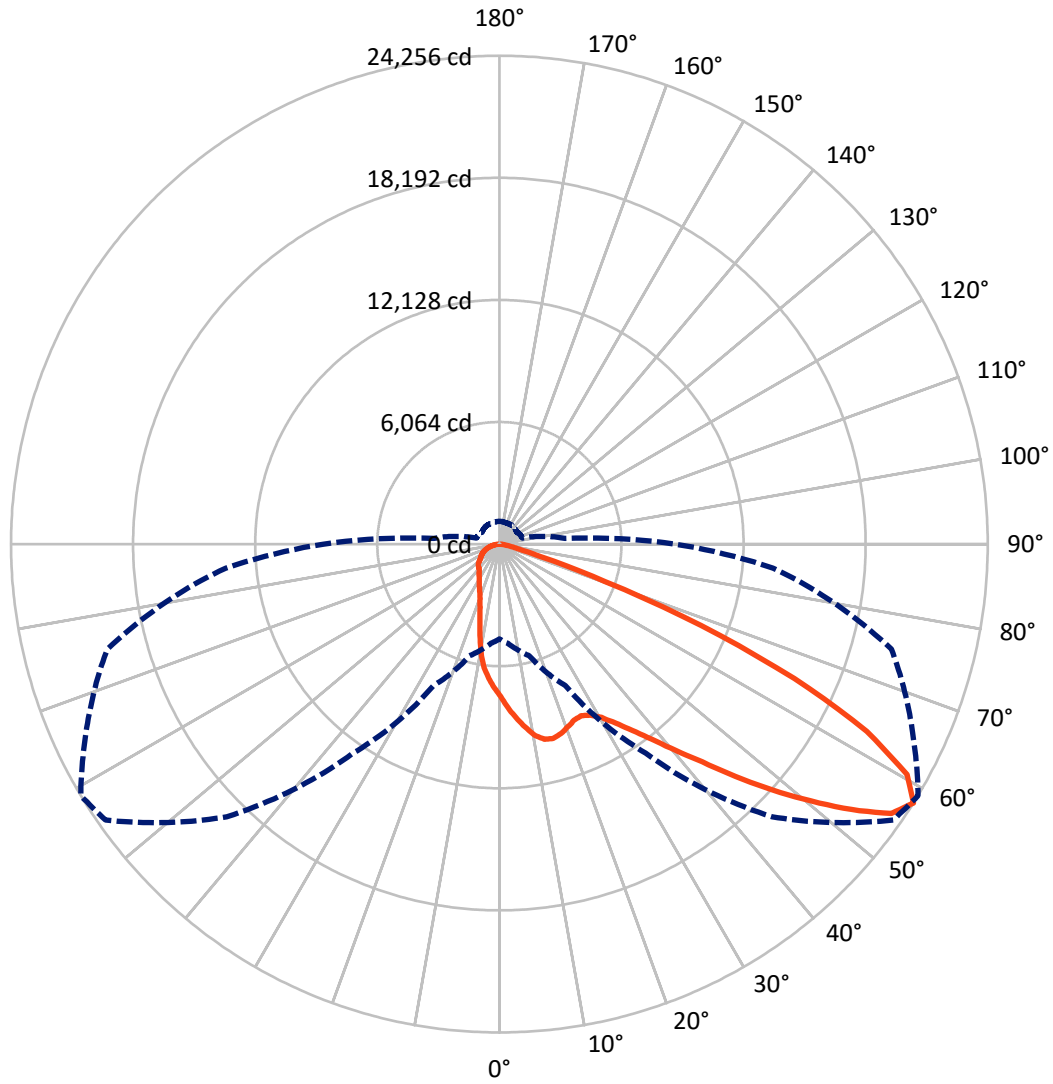
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 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	4789.8	0.0	4789.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	26073.5	0.0	26073.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	30863.3	0.0	30863.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.5	2.3
10°-20°	1782.6	5.8
20°-30°	2889.6	9.4
30°-40°	4648.3	15.1
40°-50°	7218.4	23.4
50°-60°	7775.2	25.2
60°-70°	4512.4	14.6
70°-80°	1178.0	3.8
80°-90°	155.2	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°	30863.3	100.0
0°-180°	30863.3	100.0

Coefficient of Utilization



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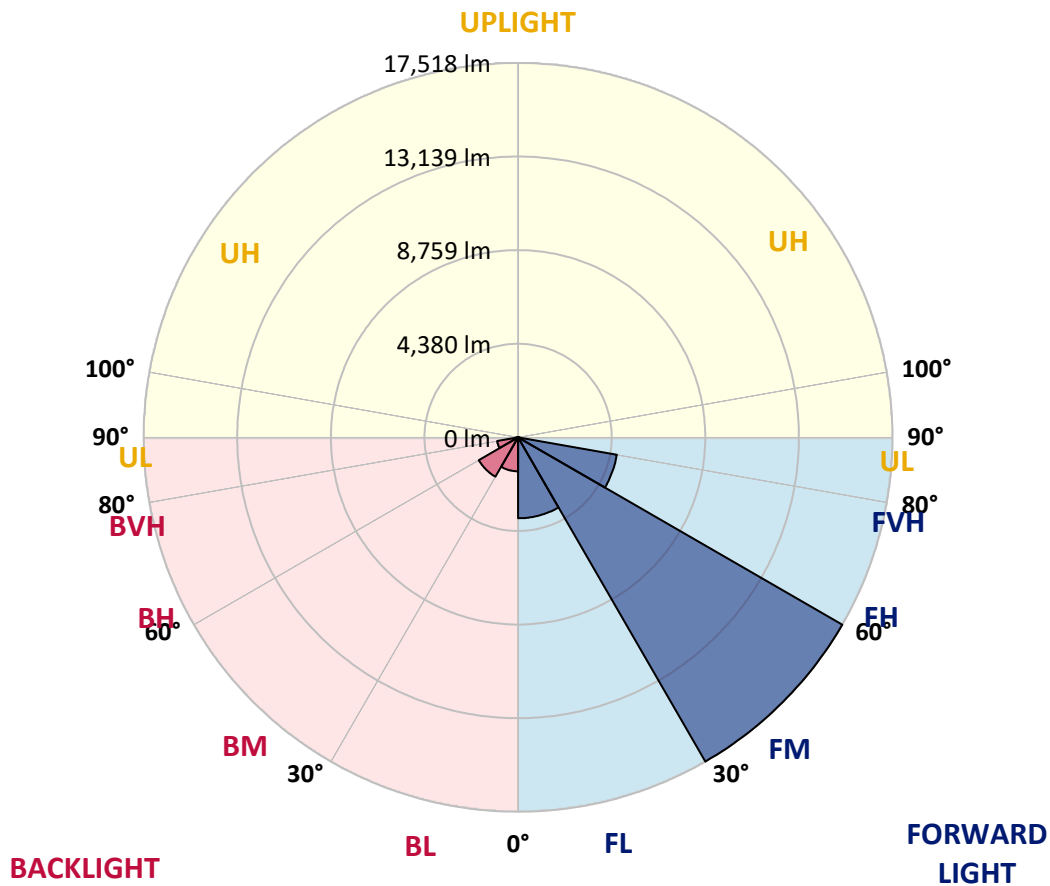
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3786.6	12.3			
FM (30°-60°)	17518.4	56.8			
FH (60°-80°)	4694.2	15.2			G2/5000
FVH (80°-90°)	74.3	0.2			G1/100
BL (0°-30°)	1589.1	5.1	B3/2500		
BM (30°-60°)	2123.6	6.9	B2/2500		
BH (60°-80°)	996.3	3.2	B2/1000		G2/1000
BVH (80°-90°)	80.9	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°	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3
2.5°	8593.2	8521.5	8571.4	8482.4	8445.4	8347.6	8221.6	8136.9	8006.5	7837.1	7689.3
5°	9447.0	9397.1	9407.9	9312.3	9227.6	9064.6	8806.1	8662.7	8441.1	8100.0	7782.7
7.5°	9421.0	9479.6	9512.2	9594.8	9618.7	9603.5	9371.0	9171.1	8927.8	8415.0	7937.0
10°	8445.4	8556.2	8656.2	8938.6	9281.9	9716.5	9770.8	9651.3	9405.8	8817.0	8121.7
12.5°	7382.9	7467.7	7556.8	7895.7	8421.5	9290.6	9879.4	9953.3	9855.5	9214.6	8330.3
15°	6861.5	6900.6	6985.3	7209.1	7628.5	8593.2	9690.4	10014.1	10190.1	9636.1	8564.9
17.5°	6839.8	6857.1	6898.4	7017.9	7309.1	8054.3	9349.3	9892.5	10453.0	10081.5	8838.7
20°	7289.5	7243.9	7217.8	7215.6	7359.0	7874.0	9019.0	9696.9	10576.9	10537.8	9132.0
22.5°	7913.1	7928.3	7871.8	7732.8	7715.4	8002.2	8853.9	9499.2	10613.8	10941.9	9403.6
25°	8797.4	8873.4	8706.1	8441.1	8310.7	8373.7	8956.0	9438.4	10609.5	11278.7	9573.1
27.5°	9829.4	9888.1	9718.6	9371.0	9101.6	8949.5	9260.2	9618.7	10646.4	11569.8	9675.2
30°	11004.9	11024.5	10792.0	10426.9	10033.7	9707.8	9766.4	9990.2	10835.4	11952.2	9794.7
32.5°	12441.1	12523.6	12171.7	11593.7	11044.0	10626.8	10446.5	10589.9	11243.9	12404.1	9979.4
35°	14264.0	14292.2	13844.7	13016.8	12239.0	11661.1	11283.0	11359.1	11865.3	13036.4	10257.5
37.5°	15982.6	16010.9	15535.0	14765.9	13653.5	12862.6	12315.1	12280.3	12660.5	13929.4	10711.6
40°	17073.3	17153.7	16940.8	16458.5	15396.0	14329.2	13586.1	13466.6	13703.4	15022.3	11343.8
42.5°	17660.0	17694.7	17690.4	17753.4	17121.1	16060.8	15020.1	14781.1	14939.7	16202.1	11982.6
45°	17664.3	17751.2	17983.7	18589.9	18618.2	17957.6	16832.2	16458.5	16312.9	17390.6	12649.7
47.5°	16873.5	16966.9	17605.7	18798.5	19678.5	19828.4	19002.7	18253.1	17640.4	18413.9	13197.2
50°	14479.1	14713.8	15930.5	18040.2	19887.0	21327.6	21073.3	20056.5	18820.2	19204.8	13540.5
52.5°	12399.8	12391.1	13140.7	15897.9	19015.8	21988.1	23076.6	21912.0	19987.0	19706.7	13627.4
55°	9079.9	9129.8	9896.8	12158.6	16690.9	21349.3	24178.2	23619.8	21325.4	19973.9	13592.6
57.5°	4708.3	4956.0	5742.5	7758.8	12682.2	19150.5	23884.9	24256.4	22685.5	20163.0	13638.3
60°	2379.1	2331.3	2613.8	3704.5	7348.2	14957.1	22077.1	23261.3	22931.0	20310.7	13666.5
62.5°	1588.3	1575.2	1497.0	1716.5	3002.7	8858.2	18820.2	20480.2	21225.4	19963.1	13305.8
65°	1375.3	1349.3	1205.9	1197.2	1457.9	3674.1	13794.7	16100.0	17542.7	18418.3	12443.2
67.5°	1238.5	1199.3	1053.8	982.1	1047.3	1614.3	7774.0	10798.5	12953.8	15576.3	10553.0
70°	1105.9	1086.4	940.8	836.5	830.0	984.2	2863.7	5573.1	7926.1	10626.8	7715.4
72.5°	990.8	956.0	832.2	732.2	682.2	697.4	1242.8	2146.7	4102.1	6629.0	4614.9
75°	858.2	832.2	723.5	623.6	562.7	510.6	758.3	992.9	1870.7	3150.5	2179.3
77.5°	662.7	645.3	571.4	495.4	460.6	380.2	460.6	625.7	864.7	1327.5	1134.2
80°	384.6	395.4	425.9	386.7	338.9	271.6	299.8	360.7	519.3	719.2	643.1
82.5°	193.4	206.4	275.9	223.8	202.1	158.6	178.2	212.9	271.6	397.6	252.0
85°	15.2	15.2	50.0	56.5	69.5	56.5	71.7	86.9	123.8	158.6	84.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.5	10.9	19.6	36.9	23.9
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°	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3
2.5°	7589.4	7478.5	7346.0	7237.4	7070.1	6981.0	6868.0	6729.0	6672.5	6646.4	6631.2
5°	7604.6	7409.0	7126.6	6865.8	6576.9	6348.7	6094.5	5829.4	5677.4	5640.4	5614.3
7.5°	7661.1	7387.3	6937.5	6507.3	5970.7	5473.1	4988.6	4508.4	4262.9	4169.5	4160.8
10°	7739.3	7378.6	6746.3	6031.5	5125.5	4338.9	3771.9	3396.0	3237.4	3185.2	3167.8
12.5°	7837.1	7372.1	6494.3	5371.0	4149.9	3406.8	3083.1	3022.3	3044.0	3039.7	3039.7
15°	7960.9	7380.8	6190.1	4623.6	3356.9	2957.1	2963.6	3035.3	3102.7	3113.5	3113.5
17.5°	8095.6	7372.1	5749.1	3874.0	2881.0	2850.6	2950.6	3050.5	3111.4	3120.0	3120.0
20°	8241.2	7330.8	5192.8	3167.8	2672.5	2783.3	2891.9	2970.1	3007.1	3015.8	3015.8
22.5°	8328.1	7213.5	4588.8	2681.2	2539.9	2676.8	2748.5	2828.9	2833.2	2763.7	2761.5
25°	8315.1	6994.0	3900.1	2368.3	2398.7	2518.2	2609.5	2553.0	2483.4	2444.3	2437.8
27.5°	8232.5	6663.8	3198.3	2131.5	2231.4	2366.1	2337.9	2290.1	2272.7	2229.2	2224.9
30°	8128.2	6257.5	2568.2	1946.8	2057.6	2181.4	2138.0	2133.6	2116.2	2068.4	2068.4
32.5°	8028.3	5838.1	2092.3	1809.9	1946.8	1955.5	2016.3	2020.6	2012.0	1929.4	1920.7
35°	8000.0	5418.8	1770.8	1701.3	1838.1	1833.8	1920.7	1918.5	1768.6	1653.5	1651.3
37.5°	8084.7	4992.9	1579.6	1612.2	1688.2	1744.7	1814.2	1688.2	1638.2	1568.7	1564.4
40°	8265.1	4599.7	1481.8	1560.0	1592.6	1675.2	1566.5	1575.2	1562.2	1510.1	1503.5
42.5°	8504.1	4265.1	1427.5	1542.6	1538.3	1560.0	1440.5	1475.3	1494.8	1455.7	1449.2
45°	8734.4	3973.9	1399.2	1477.5	1499.2	1373.2	1349.3	1381.9	1412.3	1397.1	1390.5
47.5°	8903.9	3721.9	1384.0	1388.4	1449.2	1310.2	1271.0	1286.3	1323.2	1329.7	1327.5
50°	8956.0	3506.8	1366.6	1314.5	1301.5	1247.1	1216.7	1212.4	1255.8	1286.3	1290.6
52.5°	8856.1	3315.6	1321.0	1249.3	1186.3	1195.0	1184.1	1162.4	1205.9	1247.1	1251.5
55°	8708.3	3207.0	1249.3	1186.3	1112.4	1147.2	1151.5	1132.0	1160.2	1188.5	1188.5
57.5°	8719.2	3270.0	1179.8	1127.6	1047.3	1092.9	1116.8	1108.1	1108.1	1129.8	1132.0
60°	8790.9	3361.2	1134.2	1053.8	982.1	1029.9	1084.2	1075.5	1055.9	1084.2	1084.2
62.5°	8584.5	3239.5	1103.7	982.1	912.5	969.0	1034.2	1029.9	1008.1	1053.8	1058.1
65°	7976.1	2913.6	1069.0	893.0	843.0	908.2	964.7	979.9	960.3	1021.2	1032.0
67.5°	6685.5	2450.8	1001.6	808.3	773.5	834.3	888.6	910.4	895.2	966.9	975.6
70°	4984.3	1983.7	895.2	714.8	688.8	743.1	793.0	801.7	803.9	888.6	897.3
72.5°	3178.7	1542.6	753.9	610.5	591.0	632.3	669.2	704.0	719.2	799.6	797.4
75°	1773.0	1147.2	606.2	517.1	482.3	514.9	558.4	599.7	643.1	760.5	773.5
77.5°	1021.2	806.1	480.2	415.0	373.7	408.5	445.4	504.1	634.4	736.6	723.5
80°	575.8	523.6	362.8	304.2	278.1	304.2	332.4	443.2	499.7	543.2	549.7
82.5°	269.4	293.3	247.7	186.9	186.9	204.2	230.3	343.3	378.1	308.5	269.4
85°	97.8	132.5	121.7	95.6	84.7	82.6	143.4	195.5	121.7	108.6	93.4
87.5°	26.1	36.9	34.8	23.9	13.0	10.9	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)