

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: P633431

Luminaire Tested: GWS-SA2E-760-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-760-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14605.3 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

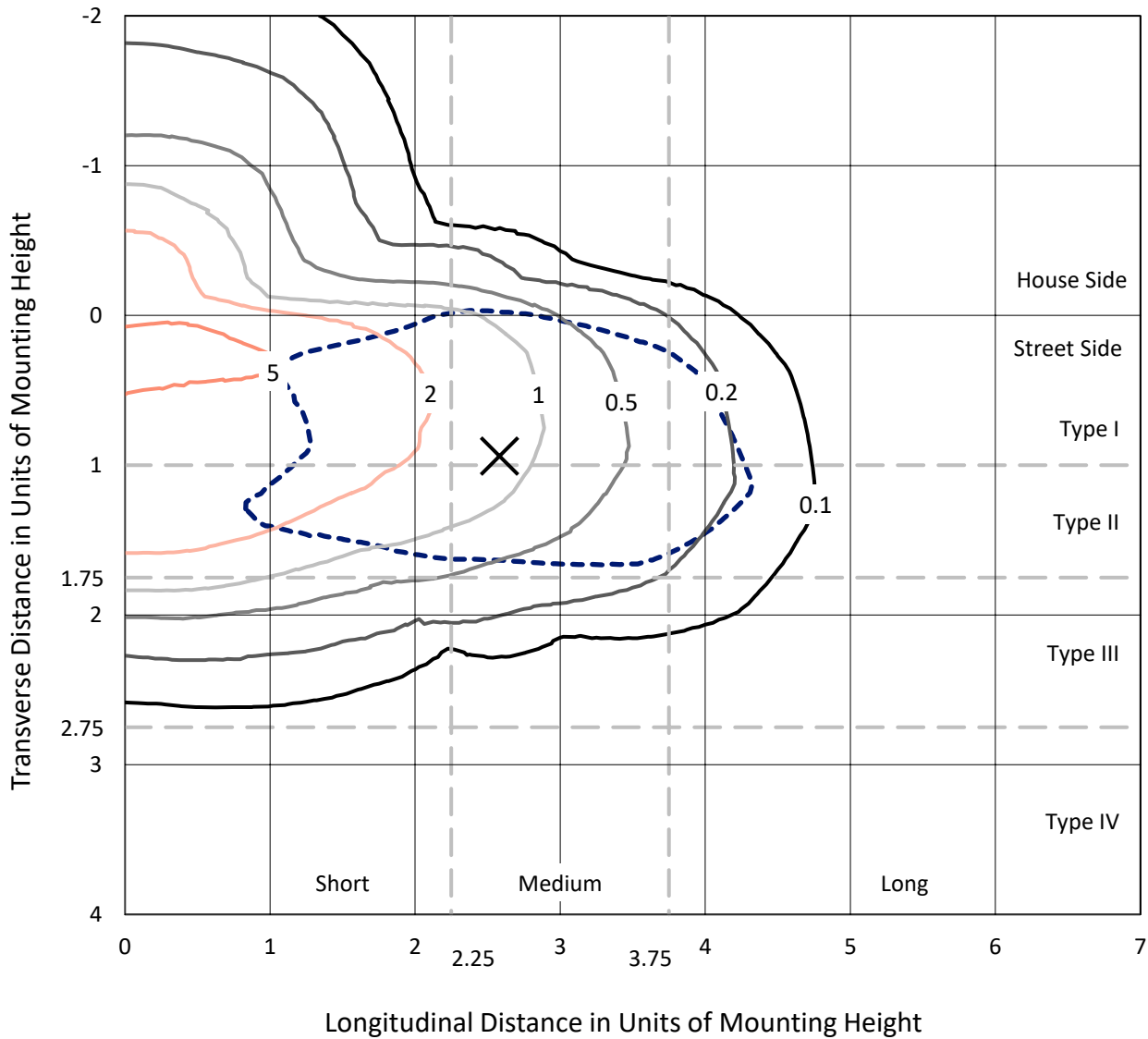
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

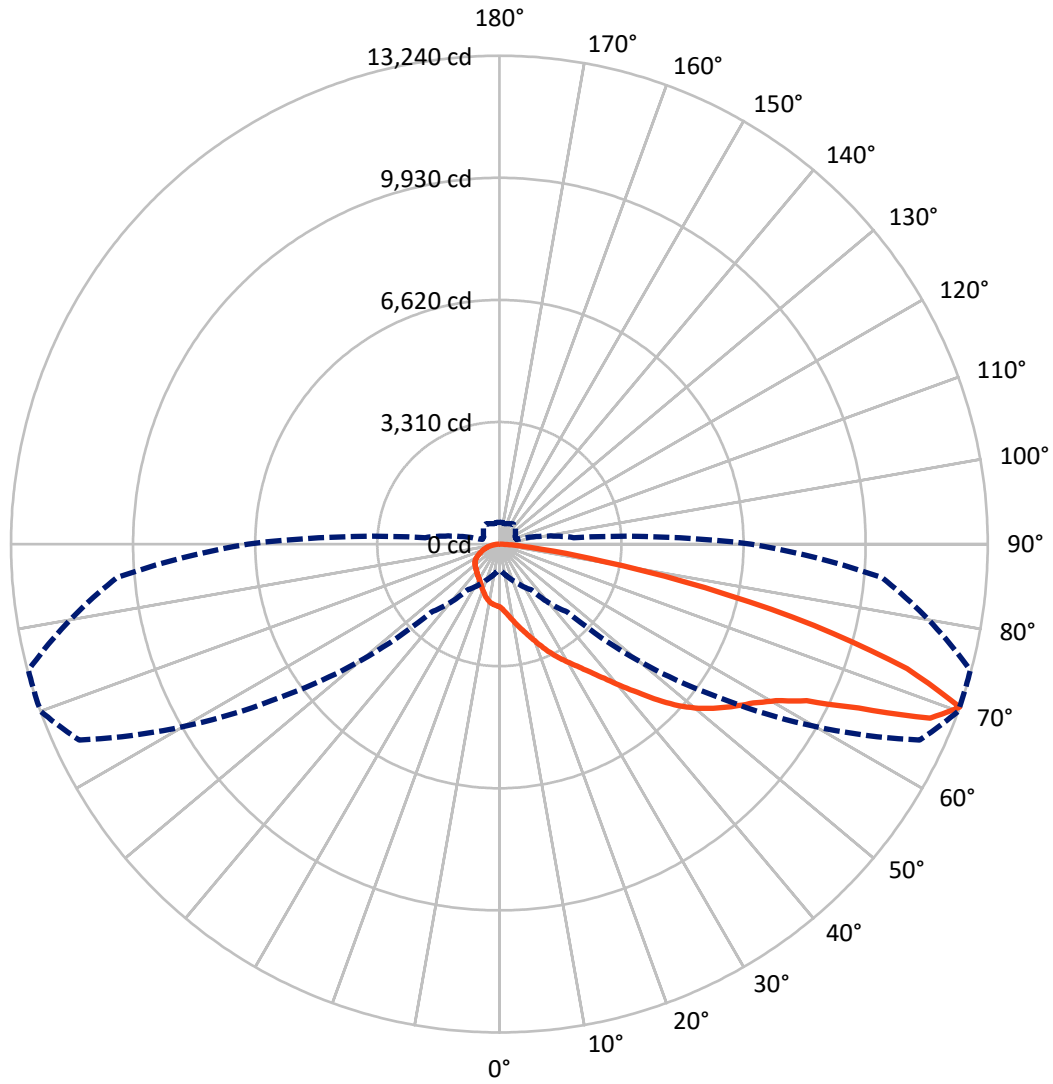
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2617.3	0.0	2617.3
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	11988.0	0.0	11988.0
	% Fixture	82.1	0.0	82.1
Total	Lumens	14605.3	0.0	14605.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	1.2
10°-20°	563.2	3.9
20°-30°	997.7	6.8
30°-40°	1501.5	10.3
40°-50°	2271.6	15.6
50°-60°	3254.1	22.3
60°-70°	3597.1	24.6
70°-80°	2029.9	13.9
80°-90°	217.1	1.5
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°	14605.3	100.0
0°-180°	14605.3	100.0

Coefficient of Utilization



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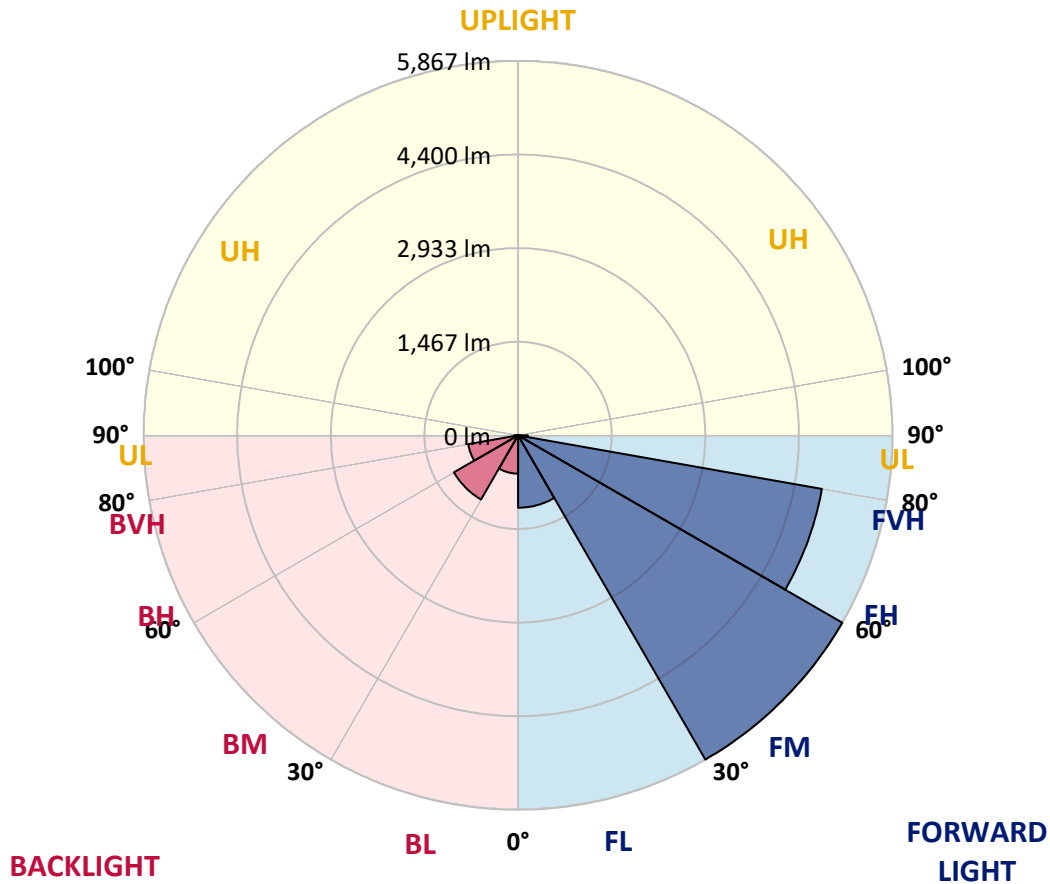
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1133.8	7.8			
FM (30°-60°)	5866.9	40.2			
FH (60°-80°)	4833.8	33.1			G2/5000
FVH (80°-90°)	153.5	1.1			G2/225
BL (0°-30°)	600.1	4.1	B2/1000		
BM (30°-60°)	1160.3	7.9	B2/2500		
BH (60°-80°)	793.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	63.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1703.3	1703.3	1703.3	1703.3	1703.3	1703.3	1703.3	1703.3	1703.3	1703.3	1703.3
2.5°	1886.9	1883.7	1885.9	1883.7	1872.1	1843.6	1820.4	1790.9	1770.8	1759.2	1731.8
5°	2108.5	2105.4	2098.0	2087.4	2066.3	2027.3	1969.2	1904.8	1865.8	1836.3	1778.2
7.5°	2267.9	2267.9	2266.8	2254.2	2239.4	2198.2	2129.6	2045.2	1988.2	1937.6	1842.6
10°	2349.1	2354.4	2361.8	2379.7	2376.6	2354.4	2290.0	2199.3	2127.5	2068.4	1927.0
12.5°	2393.5	2396.6	2409.3	2446.2	2484.2	2489.5	2451.5	2356.5	2278.4	2199.3	2020.9
15°	2450.4	2451.5	2468.4	2512.7	2568.6	2624.6	2615.1	2520.1	2439.9	2352.3	2125.4
17.5°	2494.8	2502.2	2532.8	2584.5	2654.1	2731.2	2777.6	2718.5	2619.3	2519.0	2239.4
20°	2510.6	2515.9	2556.0	2635.1	2730.1	2838.8	2942.2	2926.4	2826.1	2707.9	2368.1
22.5°	2567.6	2567.6	2597.1	2663.6	2775.5	2933.8	3101.6	3142.7	3054.1	2915.8	2506.4
25°	2693.2	2688.9	2702.7	2730.1	2814.5	3009.8	3258.8	3382.3	3283.1	3128.0	2644.6
27.5°	2865.2	2863.1	2862.0	2866.2	2894.7	3076.2	3391.8	3606.0	3506.8	3331.6	2768.1
30°	3052.0	3045.6	3059.4	3046.7	3040.4	3155.4	3504.7	3806.5	3729.5	3533.2	2870.5
32.5°	3306.3	3294.7	3291.5	3250.4	3225.0	3278.9	3595.5	4034.5	3973.3	3750.6	2985.5
35°	3641.9	3631.3	3577.5	3512.1	3437.2	3462.5	3708.4	4257.1	4261.4	4022.9	3136.4
37.5°	3980.7	3982.8	3940.6	3786.5	3709.4	3694.7	3880.4	4528.4	4619.1	4347.9	3331.6
40°	4262.4	4275.1	4275.1	4112.6	3997.5	3983.8	4122.1	4850.2	5030.7	4746.8	3578.6
42.5°	4476.7	4488.3	4525.2	4408.1	4286.7	4334.2	4415.4	5173.2	5497.1	5239.6	3891.0
45°	4712.0	4721.5	4741.5	4674.0	4603.3	4729.9	4747.9	5559.4	6031.1	5792.6	4254.0
47.5°	5024.4	5015.9	5018.0	4968.4	4913.6	5118.3	5114.1	5884.4	6547.2	6398.4	4647.6
50°	5412.7	5428.5	5413.8	5315.6	5251.3	5438.0	5462.3	6244.3	7001.0	6997.8	5044.4
52.5°	5786.3	5792.6	5870.7	5874.9	5743.0	5704.0	5767.3	6607.3	7384.0	7546.6	5425.4
55°	5805.3	5829.6	6063.8	6232.7	6445.9	6132.4	6075.5	6953.5	7754.5	8083.7	5821.1
57.5°	5401.1	5440.2	5838.0	6202.1	6795.2	6868.0	6603.1	7400.9	8124.9	8612.4	6279.1
60°	4537.9	4619.1	5159.4	5716.6	6637.9	7396.7	7682.7	8008.8	8611.4	9152.8	6835.3
62.5°	2897.9	2929.6	3687.3	4620.2	5929.8	7345.0	8858.3	9079.9	9352.2	9856.7	7692.2
65°	1451.1	1552.4	1996.7	2757.5	4276.1	6472.3	9452.5	11041.8	10708.3	11061.8	9081.0
67.5°	984.6	1017.3	1242.1	1656.8	2507.4	4585.3	9084.2	12694.4	12596.3	12654.3	10561.6
70°	726.1	747.2	924.5	1173.5	1516.5	2603.5	7232.1	12569.9	13240.0	13218.9	10406.5
72.5°	529.8	540.3	674.3	896.0	1123.9	1346.6	4416.5	10154.3	11557.8	12166.7	9101.0
75°	385.2	397.9	468.6	670.1	873.8	840.0	2180.3	7334.4	8814.0	9985.4	7414.7
77.5°	287.0	302.9	335.6	420.0	612.1	601.5	942.4	4762.6	5700.8	6521.9	4504.1
80°	206.8	210.0	229.0	269.1	388.4	352.5	448.5	2483.2	2847.2	3119.5	1765.5
82.5°	125.6	128.7	153.0	165.7	240.6	221.6	233.2	804.2	1152.4	1223.1	659.6
85°	36.9	39.0	69.7	76.0	100.3	95.0	93.9	327.1	390.5	499.2	259.6
87.5°	0.0	0.0	0.0	0.0	1.1	6.3	11.6	58.0	87.6	121.4	63.3
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°	1703.3	1703.3	1703.3	1703.3	1703.3	1703.3	1703.3	1703.3	1703.3	1703.3	1703.3
2.5°	1721.2	1696.9	1684.3	1662.1	1646.3	1630.5	1614.6	1599.9	1593.5	1584.0	1586.1
5°	1751.8	1713.8	1675.8	1632.6	1595.6	1565.0	1537.6	1513.3	1502.8	1493.3	1497.5
7.5°	1798.3	1741.3	1668.5	1589.3	1531.3	1489.1	1460.6	1443.7	1438.4	1431.0	1431.0
10°	1857.4	1771.9	1644.2	1531.3	1461.6	1427.8	1415.2	1414.1	1419.4	1420.5	1418.3
12.5°	1922.8	1801.4	1608.3	1462.7	1403.6	1393.0	1402.5	1420.5	1438.4	1447.9	1445.8
15°	1990.3	1820.4	1547.1	1397.2	1361.4	1375.1	1405.7	1441.6	1476.4	1494.3	1493.3
17.5°	2053.6	1824.6	1467.9	1333.9	1324.4	1359.2	1412.0	1467.9	1515.4	1540.8	1541.8
20°	2124.4	1817.3	1386.7	1276.9	1287.5	1344.5	1414.1	1481.7	1537.6	1562.9	1569.3
22.5°	2188.7	1791.9	1307.5	1223.1	1255.8	1326.5	1397.2	1460.6	1510.2	1534.4	1542.9
25°	2246.8	1743.4	1221.0	1177.7	1231.6	1301.2	1355.0	1399.3	1434.2	1448.9	1460.6
27.5°	2278.4	1670.6	1155.6	1141.9	1208.3	1265.3	1294.9	1308.6	1320.2	1316.0	1324.4
30°	2284.8	1579.8	1098.6	1113.4	1173.5	1215.7	1222.1	1208.3	1188.3	1155.6	1163.0
32.5°	2278.4	1475.3	1051.1	1082.8	1134.5	1159.8	1151.4	1115.5	1066.9	1016.3	1019.4
35°	2280.5	1369.8	1012.0	1049.0	1089.1	1102.8	1081.7	1032.1	980.4	934.0	931.8
37.5°	2303.8	1281.2	979.3	1016.3	1044.8	1046.9	1023.7	971.9	945.6	910.7	906.5
40°	2368.1	1215.7	949.8	983.6	1001.5	1000.4	974.1	937.1	955.1	943.5	940.3
42.5°	2473.7	1175.6	925.5	948.7	961.4	963.5	942.4	919.2	958.2	943.5	938.2
45°	2643.6	1173.5	908.6	913.9	934.0	948.7	934.0	907.6	922.3	850.6	836.9
47.5°	2845.1	1209.4	896.0	883.3	918.1	944.5	921.3	879.1	848.5	783.0	773.5
50°	3087.9	1282.2	884.4	850.6	894.9	928.7	905.5	847.4	801.0	766.2	760.9
52.5°	3376.0	1378.2	869.6	813.6	860.1	920.2	905.5	844.3	783.0	751.4	746.1
55°	3677.8	1489.1	852.7	769.3	821.0	922.3	912.8	822.1	769.3	752.4	748.2
57.5°	4052.4	1622.0	822.1	717.6	786.2	903.4	883.3	809.4	759.8	746.1	741.9
60°	4538.9	1819.4	764.0	664.8	746.1	869.6	856.9	788.3	734.5	722.9	719.7
62.5°	5309.3	2153.9	693.3	614.2	698.6	798.9	817.9	748.2	702.8	701.8	700.7
65°	6565.1	2556.0	610.0	568.8	649.0	740.8	766.2	707.1	670.1	681.7	680.7
67.5°	7445.3	2590.8	541.4	521.3	591.0	677.5	714.4	664.8	624.7	646.9	645.9
70°	6819.5	2020.9	482.3	471.7	528.7	608.9	658.5	612.1	572.0	593.1	588.9
72.5°	5751.5	1549.2	426.3	420.0	465.4	537.2	586.8	559.3	517.1	517.1	507.6
75°	4622.3	1278.0	367.3	364.1	394.7	464.3	520.3	473.8	434.8	432.7	426.3
77.5°	2651.0	837.9	308.2	306.0	315.5	388.4	404.2	394.7	365.1	351.4	347.2
80°	1056.4	435.8	242.7	229.0	238.5	284.9	318.7	302.9	277.5	260.7	251.2
82.5°	409.5	218.5	171.0	149.9	163.6	205.8	231.1	225.8	209.0	171.0	160.4
85°	166.7	106.6	102.4	86.5	95.0	110.8	133.0	115.0	95.0	67.5	64.4
87.5°	44.3	39.0	38.0	23.2	17.9	5.3	1.1	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)