

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: P632771

Luminaire Tested: GWS-SA2D-735-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632771  
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-SA2D-735-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

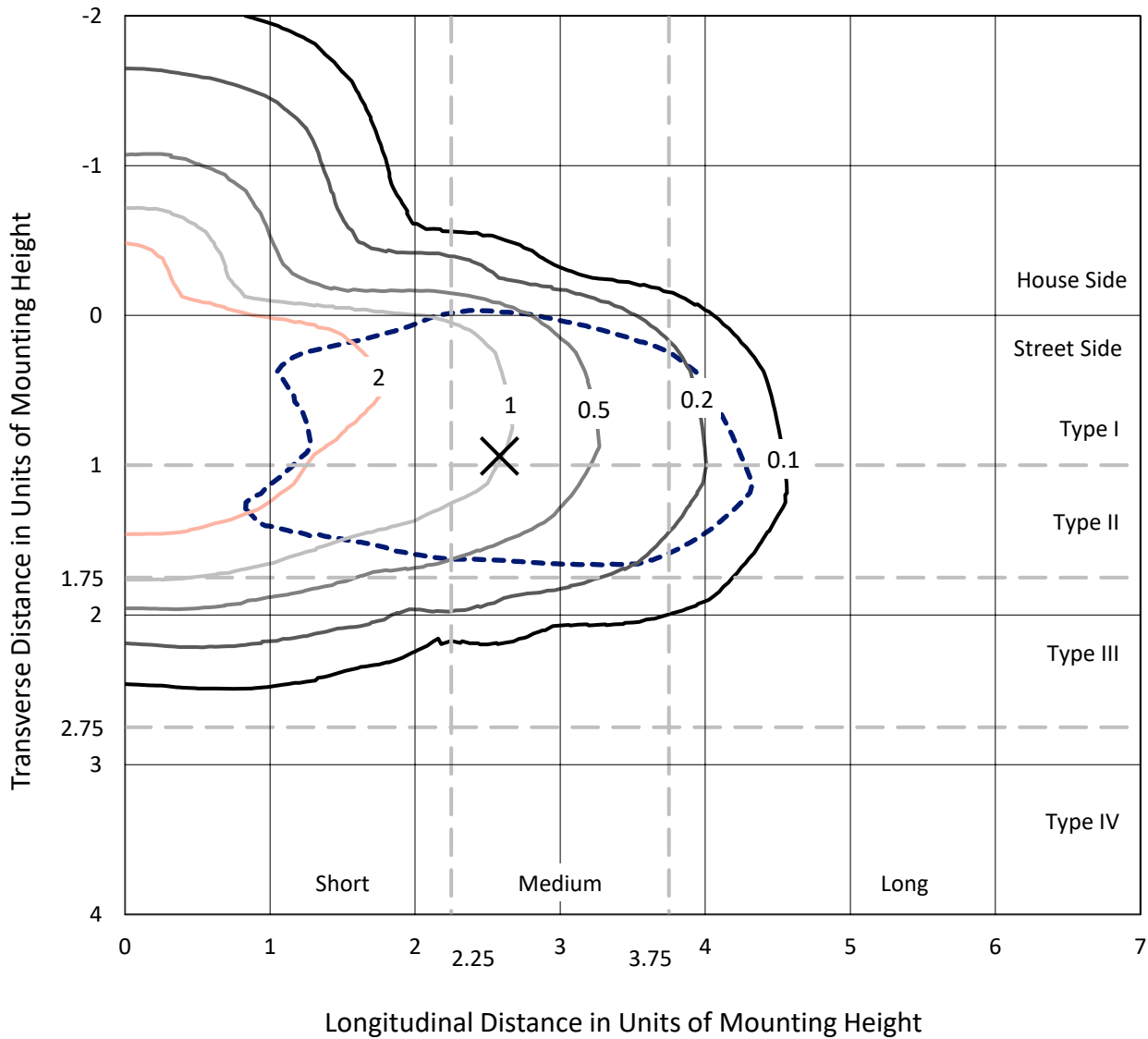
Lumens per Lamp: N/A  
Luminaire Lumens: 11425.7 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): 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

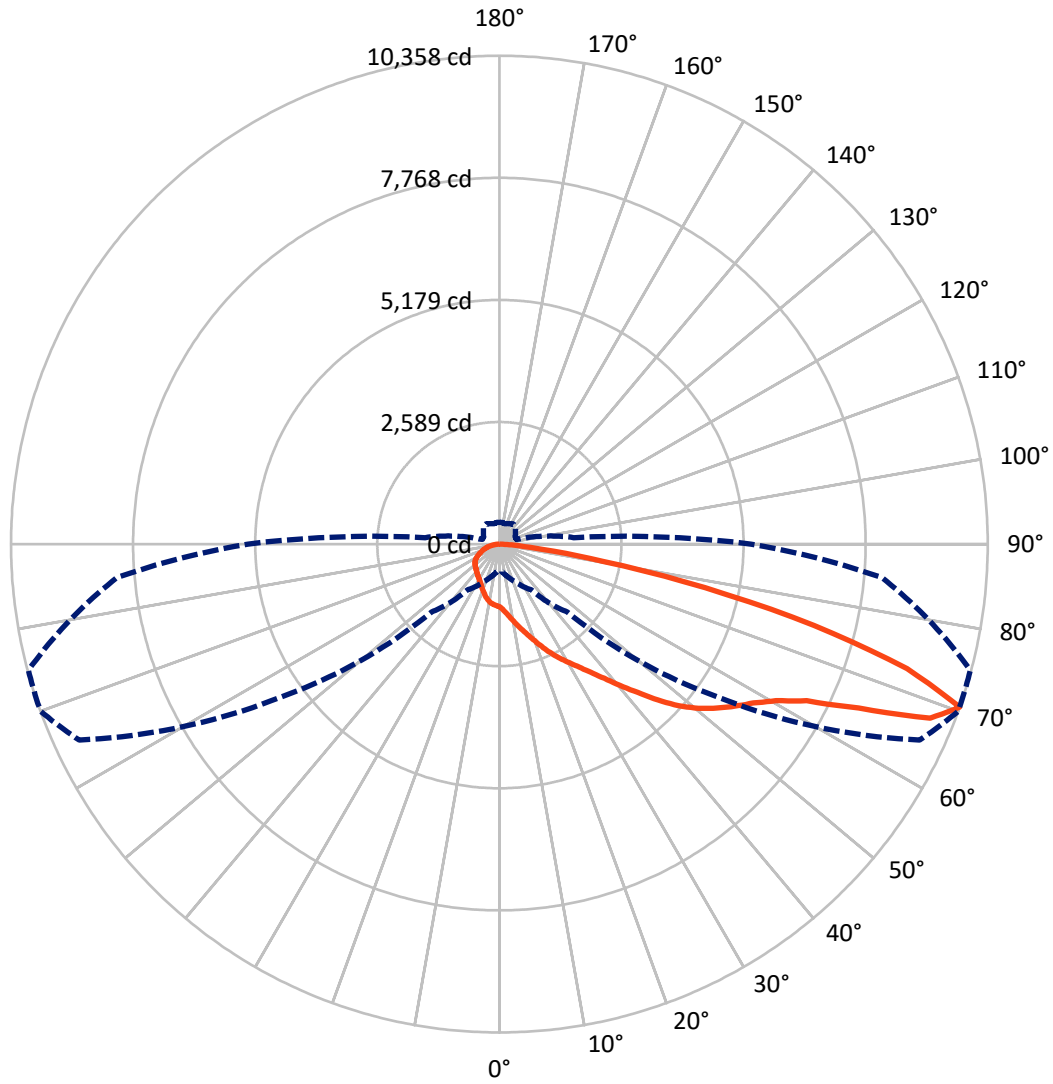
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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
<b>House Side</b>	Lumens	2047.5	0.0	2047.5
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	9378.2	0.0	9378.2
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	11425.7	0.0	11425.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.4	1.2
10°-20°	440.6	3.9
20°-30°	780.5	6.8
30°-40°	1174.6	10.3
40°-50°	1777.0	15.6
50°-60°	2545.7	22.3
60°-70°	2814.0	24.6
70°-80°	1588.0	13.9
80°-90°	169.9	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°	11425.7	100.0
0°-180°	11425.7	100.0

**Coefficient of Utilization**



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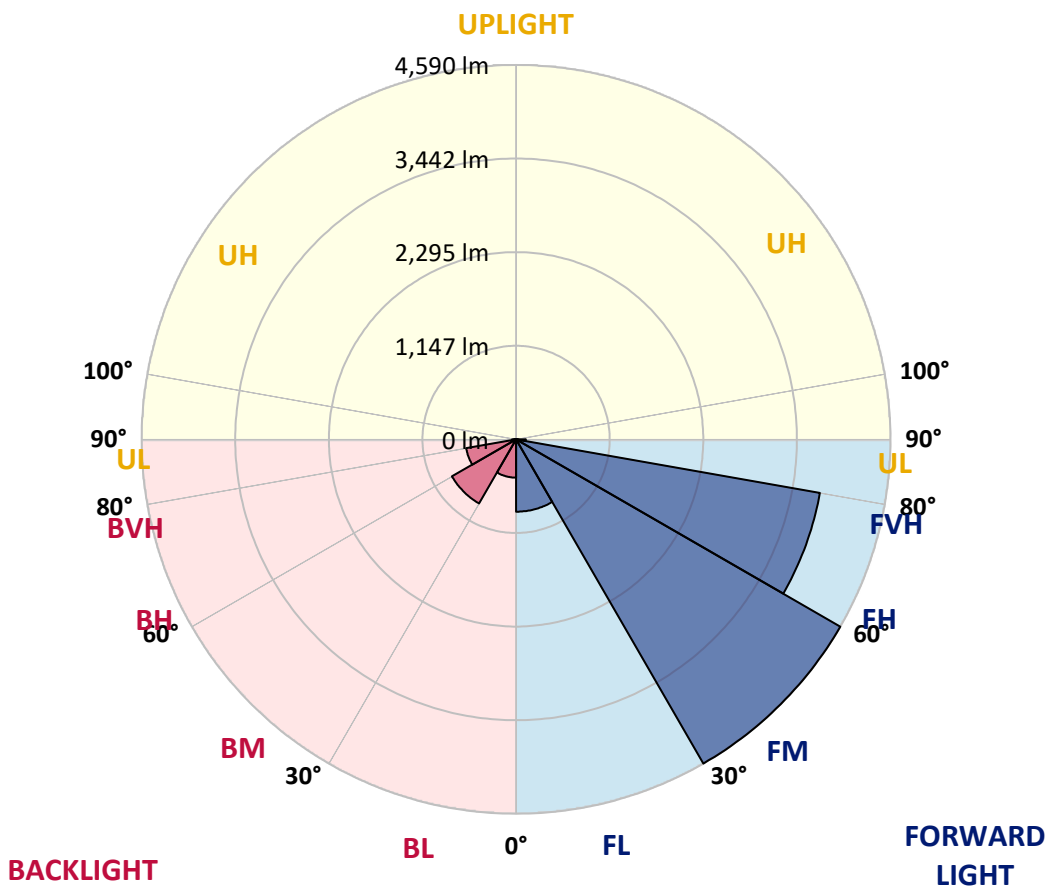
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	887.0	7.8			
FM (30°-60°)	4589.7	40.2			
FH (60°-80°)	3781.4	33.1			G2/5000
FVH (80°-90°)	120.1	1.1			G2/225
BL (0°-30°)	469.5	4.1	B1/500		
BM (30°-60°)	907.7	7.9	B1/1000		
BH (60°-80°)	620.6	5.4	B2/1000		G2/1000
BVH (80°-90°)	49.8	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°	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5
2.5°	1476.1	1473.6	1475.3	1473.6	1464.6	1442.3	1424.1	1401.0	1385.3	1376.2	1354.8
5°	1649.5	1647.0	1641.2	1633.0	1616.5	1585.9	1540.5	1490.2	1459.6	1436.5	1391.1
7.5°	1774.2	1774.2	1773.3	1763.4	1751.9	1719.7	1666.0	1600.0	1555.4	1515.8	1441.4
10°	1837.7	1841.9	1847.6	1861.7	1859.2	1841.9	1791.5	1720.5	1664.4	1618.1	1507.5
12.5°	1872.4	1874.9	1884.8	1913.7	1943.4	1947.5	1917.8	1843.5	1782.4	1720.5	1581.0
15°	1917.0	1917.8	1931.0	1965.7	2009.4	2053.2	2045.8	1971.5	1908.7	1840.2	1662.7
17.5°	1951.7	1957.4	1981.4	2021.8	2076.3	2136.6	2172.9	2126.7	2049.1	1970.6	1751.9
20°	1964.0	1968.2	1999.5	2061.5	2135.8	2220.8	2301.7	2289.3	2210.9	2118.4	1852.6
22.5°	2008.6	2008.6	2031.7	2083.7	2171.3	2295.1	2426.4	2458.6	2389.2	2281.1	1960.7
25°	2106.9	2103.6	2114.3	2135.8	2201.8	2354.5	2549.4	2646.0	2568.4	2447.0	2068.9
27.5°	2241.4	2239.8	2239.0	2242.3	2264.5	2406.5	2653.4	2821.0	2743.4	2606.3	2165.5
30°	2387.6	2382.6	2393.3	2383.4	2378.5	2468.5	2741.7	2977.8	2917.6	2764.0	2245.6
32.5°	2586.5	2577.4	2575.0	2542.8	2522.9	2565.1	2812.7	3156.2	3108.3	2934.1	2335.5
35°	2849.0	2840.8	2798.7	2747.5	2688.9	2708.7	2901.1	3330.4	3333.7	3147.1	2453.6
37.5°	3114.1	3115.7	3082.7	2962.2	2901.9	2890.3	3035.6	3542.5	3613.5	3401.4	2606.3
40°	3334.5	3344.4	3344.4	3217.3	3127.3	3116.5	3224.7	3794.3	3935.5	3713.4	2799.5
42.5°	3502.1	3511.2	3540.1	3448.4	3353.5	3390.6	3454.2	4047.0	4300.4	4099.0	3043.9
45°	3686.2	3693.6	3709.3	3656.5	3601.1	3700.2	3714.2	4349.1	4718.1	4531.6	3327.9
47.5°	3930.5	3923.9	3925.6	3886.8	3843.9	4004.0	4000.7	4603.4	5121.8	5005.4	3635.8
50°	4234.4	4246.7	4235.2	4158.4	4108.0	4254.2	4273.2	4884.9	5476.8	5474.4	3946.2
52.5°	4526.6	4531.6	4592.7	4596.0	4492.8	4462.2	4511.8	5168.9	5776.5	5903.7	4244.3
55°	4541.5	4560.5	4743.7	4875.8	5042.6	4797.4	4752.8	5439.7	6066.3	6323.9	4553.9
57.5°	4225.3	4255.8	4567.1	4851.9	5315.9	5372.8	5165.6	5789.7	6356.1	6737.5	4912.2
60°	3550.0	3613.5	4036.2	4472.1	5192.8	5786.4	6010.2	6265.3	6736.7	7160.2	5347.2
62.5°	2267.0	2291.8	2884.5	3614.4	4638.9	5746.0	6929.9	7103.2	7316.2	7710.8	6017.6
65°	1135.2	1214.4	1562.0	2157.2	3345.2	5063.2	7394.6	8638.0	8377.1	8653.6	7104.0
67.5°	770.3	795.9	971.7	1296.1	1961.6	3587.1	7106.5	9930.8	9854.0	9899.4	8262.3
70°	568.0	584.5	723.2	918.0	1186.3	2036.7	5657.6	9833.4	10357.6	10341.1	8141.0
72.5°	414.4	422.7	527.5	700.9	879.2	1053.4	3455.0	7943.7	9041.7	9518.0	7119.7
75°	301.3	311.2	366.6	524.2	683.6	657.2	1705.6	5737.7	6895.2	7811.6	5800.5
77.5°	224.6	236.9	262.5	328.6	478.8	470.6	737.2	3725.8	4459.7	5102.0	3523.5
80°	161.8	164.3	179.1	210.5	303.8	275.7	350.9	1942.6	2227.4	2440.4	1381.2
82.5°	98.2	100.7	119.7	129.6	188.2	173.4	182.5	629.1	901.5	956.8	516.0
85°	28.9	30.5	54.5	59.4	78.4	74.3	73.5	255.9	305.5	390.5	203.1
87.5°	0.0	0.0	0.0	0.0	0.8	5.0	9.1	45.4	68.5	94.9	49.5
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°	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5
2.5°	1346.5	1327.5	1317.6	1300.3	1287.9	1275.5	1263.1	1251.6	1246.6	1239.2	1240.8
5°	1370.4	1340.7	1311.0	1277.2	1248.3	1224.3	1202.9	1183.9	1175.6	1168.2	1171.5
7.5°	1406.8	1362.2	1305.2	1243.3	1197.9	1164.9	1142.6	1129.4	1125.3	1119.5	1119.5
10°	1453.0	1386.1	1286.2	1197.9	1143.4	1117.0	1107.1	1106.3	1110.4	1111.2	1109.6
12.5°	1504.2	1409.3	1258.2	1144.2	1098.0	1089.8	1097.2	1111.2	1125.3	1132.7	1131.0
15°	1557.0	1424.1	1210.3	1093.1	1065.0	1075.7	1099.7	1127.7	1155.0	1169.0	1168.2
17.5°	1606.6	1427.4	1148.4	1043.5	1036.1	1063.3	1104.6	1148.4	1185.5	1205.3	1206.2
20°	1661.9	1421.6	1084.8	998.9	1007.2	1051.8	1106.3	1159.1	1202.9	1222.7	1227.6
22.5°	1712.2	1401.8	1022.9	956.8	982.4	1037.7	1093.1	1142.6	1181.4	1200.4	1207.0
25°	1757.6	1363.8	955.2	921.3	963.4	1017.9	1060.0	1094.7	1122.0	1133.5	1142.6
27.5°	1782.4	1306.9	904.0	893.3	945.3	989.9	1013.0	1023.7	1032.8	1029.5	1036.1
30°	1787.4	1235.9	859.4	871.0	918.0	951.1	956.0	945.3	929.6	904.0	909.8
32.5°	1782.4	1154.1	822.3	847.0	887.5	907.3	900.7	872.6	834.7	795.0	797.5
35°	1784.1	1071.6	791.7	820.6	852.0	862.7	846.2	807.4	767.0	730.6	729.0
37.5°	1802.2	1002.2	766.1	795.0	817.3	819.0	800.8	760.4	739.7	712.5	709.2
40°	1852.6	951.1	743.0	769.4	783.5	782.6	762.0	733.1	747.1	738.1	735.6
42.5°	1935.1	919.7	724.0	742.2	752.1	753.7	737.2	719.1	749.6	738.1	733.9
45°	2068.1	918.0	710.8	714.9	730.6	742.2	730.6	710.0	721.5	665.4	654.7
47.5°	2225.7	946.1	700.9	691.0	718.2	738.9	720.7	687.7	663.8	612.6	605.1
50°	2415.6	1003.1	691.8	665.4	700.1	726.5	708.3	662.9	626.6	599.4	595.2
52.5°	2641.0	1078.2	680.3	636.5	672.8	719.9	708.3	660.5	612.6	587.8	583.7
55°	2877.1	1164.9	667.1	601.8	642.3	721.5	714.1	643.1	601.8	588.6	585.3
57.5°	3170.2	1268.9	643.1	561.4	615.1	706.7	691.0	633.2	594.4	583.7	580.4
60°	3550.8	1423.3	597.7	520.1	583.7	680.3	670.4	616.7	574.6	565.5	563.0
62.5°	4153.5	1685.0	542.4	480.5	546.5	625.0	639.8	585.3	549.8	549.0	548.2
65°	5135.9	1999.5	477.2	445.0	507.7	579.6	599.4	553.1	524.2	533.3	532.5
67.5°	5824.4	2026.8	423.5	407.8	462.3	530.0	558.9	520.1	488.7	506.1	505.3
70°	5334.8	1581.0	377.3	369.0	413.6	476.4	515.2	478.8	447.5	464.0	460.7
72.5°	4499.4	1211.9	333.5	328.6	364.1	420.2	459.0	437.6	404.5	404.5	397.1
75°	3616.0	999.8	287.3	284.8	308.8	363.3	407.0	370.7	340.1	338.5	333.5
77.5°	2073.8	655.5	241.1	239.4	246.8	303.8	316.2	308.8	285.6	274.9	271.6
80°	826.4	341.0	189.9	179.1	186.6	222.9	249.3	236.9	217.1	203.9	196.5
82.5°	320.3	170.9	133.7	117.2	128.0	161.0	180.8	176.7	163.5	133.7	125.5
85°	130.4	83.4	80.1	67.7	74.3	86.7	104.0	90.0	74.3	52.8	50.4
87.5°	34.7	30.5	29.7	18.2	14.0	4.1	0.8	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)