

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: STREETWORKS

Report Number: P385884

Luminaire Tested: GAW-SA1C-727-U-SL4-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385884  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1C-727-U-SL4-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5128 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

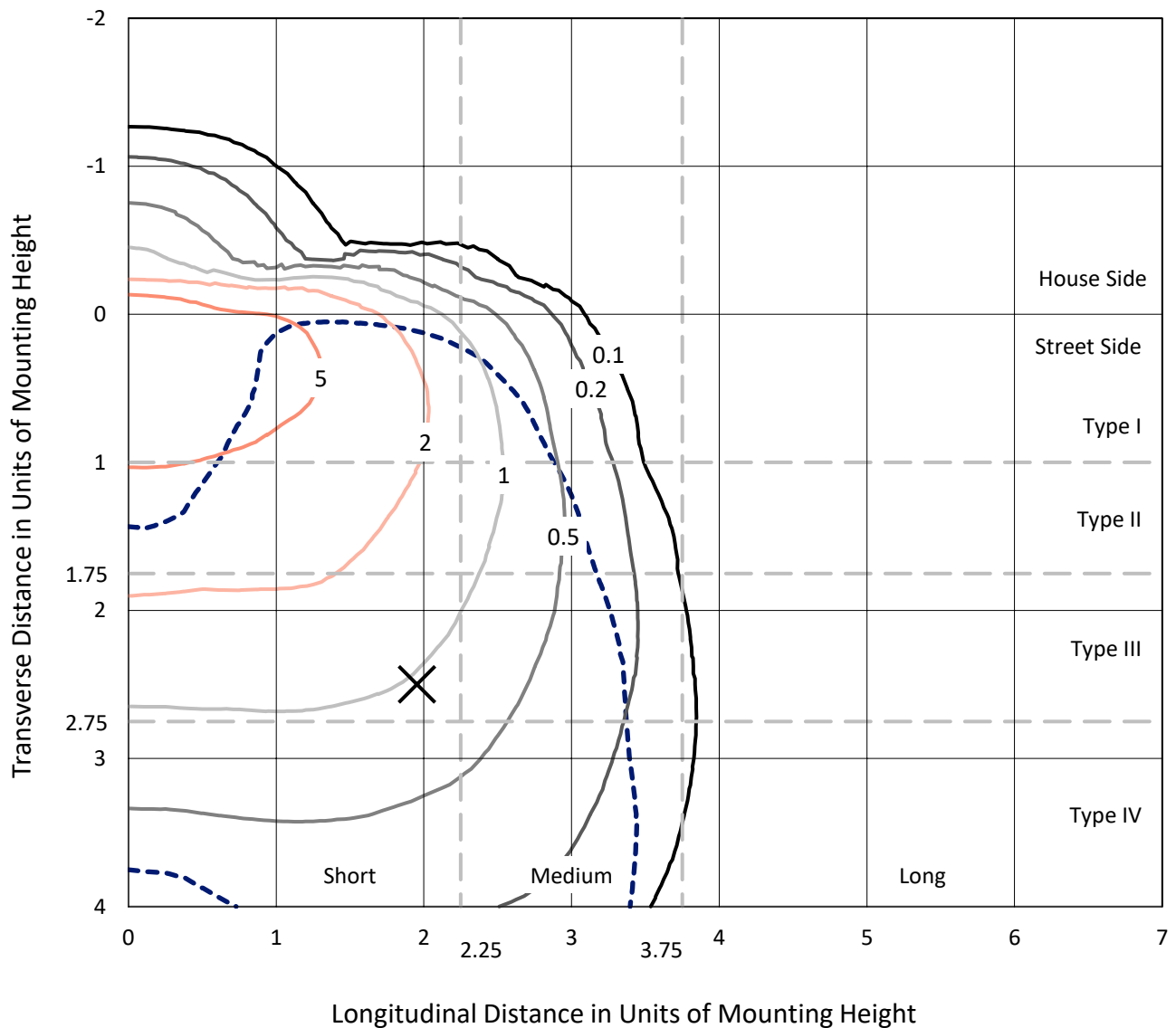
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

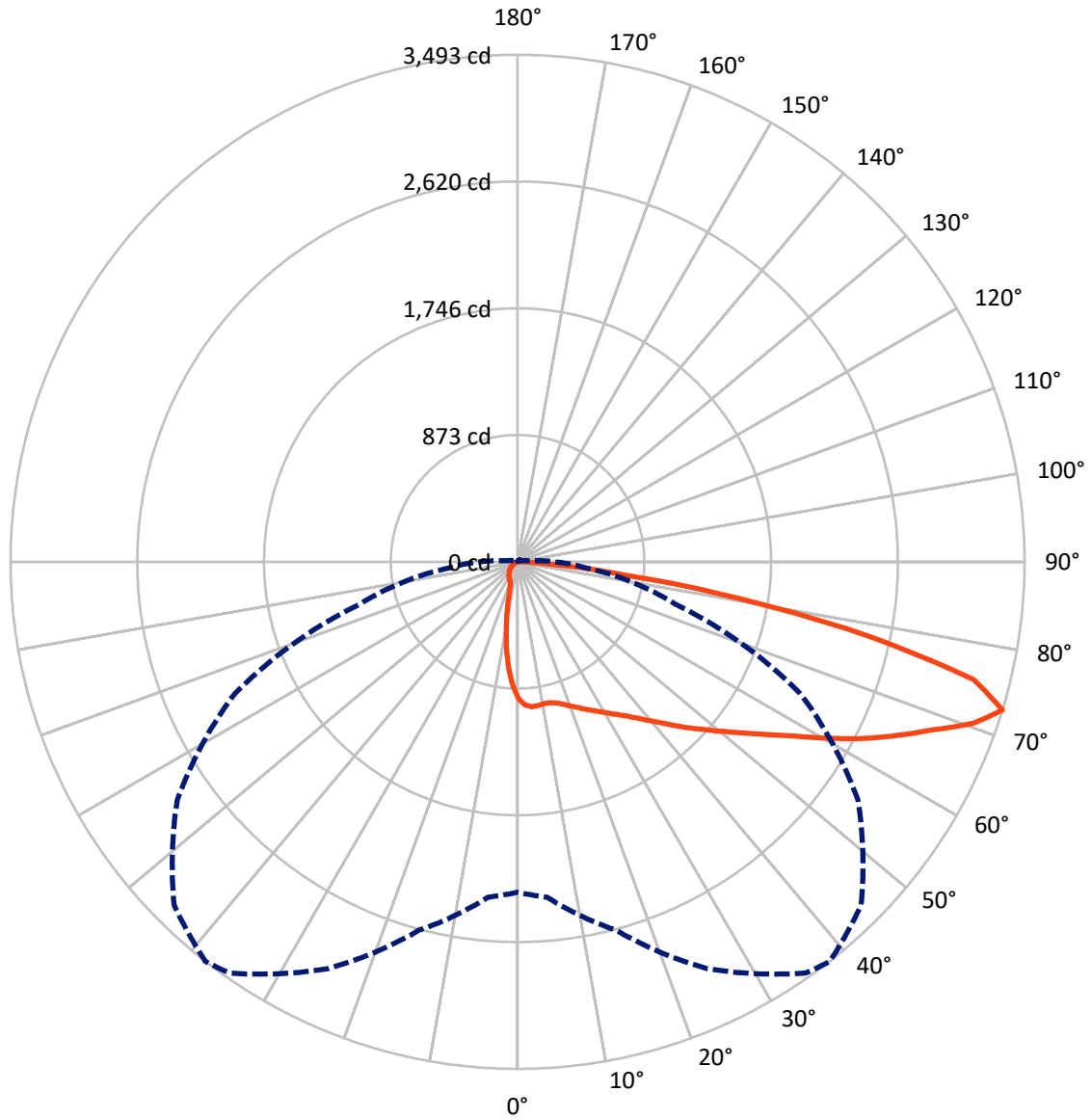
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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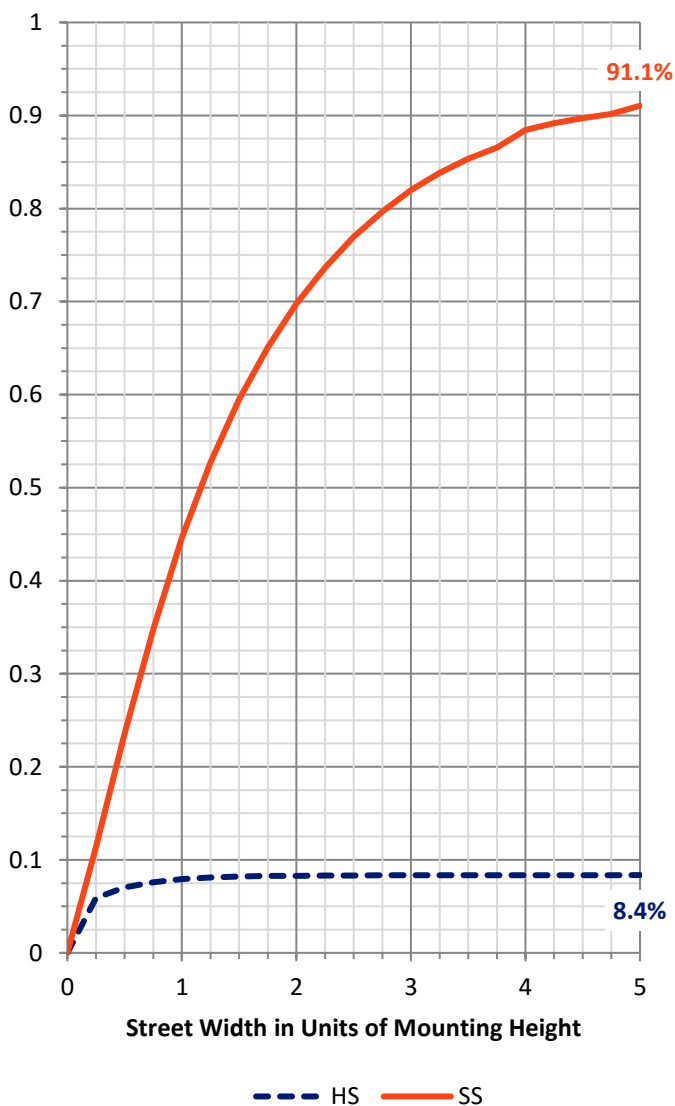
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	431.5	0.0	431.5
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	4696.5	0.0	4696.5
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	5128.0	0.0	5128.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.4	1.6
10°-20°	196.5	3.8
20°-30°	312.5	6.1
30°-40°	469.9	9.2
40°-50°	716.8	14.0
50°-60°	1013.1	19.8
60°-70°	1270.8	24.8
70°-80°	950.2	18.5
80°-90°	117.8	2.3
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°	5128.0	100.0
0°-180°	5128.0	100.0

**Coefficient of Utilization**

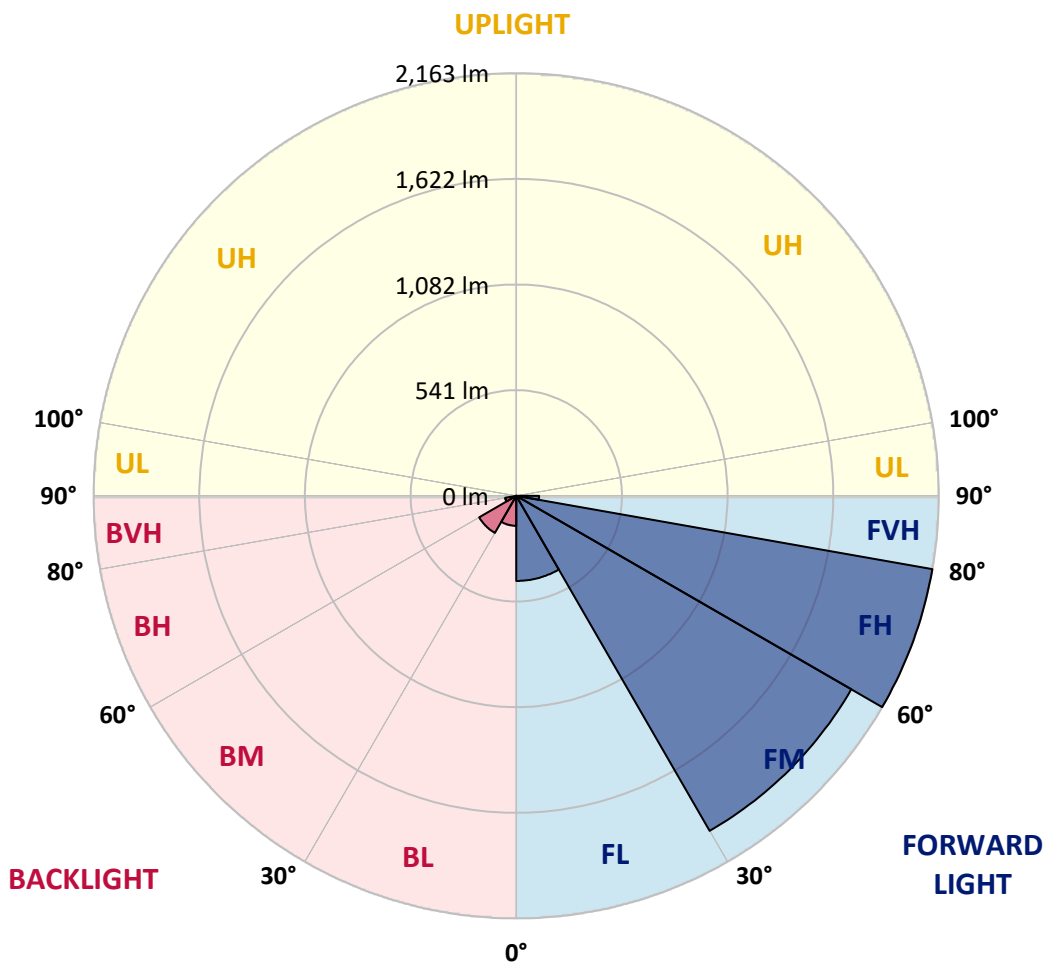


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	435.8	8.5			
FM (30°-60°)	1980.7	38.6			
FH (60°-80°)	2163.3	42.2			G2/5000
FVH (80°-90°)	116.7	2.3			G2/225
BL (0°-30°)	153.7	3.0	B1/500		
BM (30°-60°)	219.1	4.3	B0/220		
BH (60°-80°)	57.7	1.1	B0/110		G0/110
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0
2.5°	1000.9	1001.2	998.8	995.0	990.1	987.5	983.3	976.5	969.2	956.2	942.2
5°	1021.4	1021.4	1018.4	1013.3	1005.4	1003.1	995.0	984.1	969.2	948.1	924.5
7.5°	1019.3	1019.7	1015.6	1010.3	1002.4	1000.3	990.5	978.4	959.8	934.3	904.0
10°	1008.2	1009.3	1006.1	1003.5	996.3	993.9	984.8	972.6	954.1	926.8	892.1
12.5°	996.9	998.0	999.0	1001.4	996.9	996.1	988.8	978.6	960.9	932.6	893.4
15°	989.7	991.8	999.5	1008.6	1009.7	1008.8	1004.1	994.6	976.7	947.3	902.6
17.5°	989.7	993.1	1009.0	1026.5	1032.7	1033.3	1029.3	1015.9	994.6	963.0	911.1
20°	998.0	1002.7	1027.6	1052.3	1062.5	1062.5	1054.6	1035.9	1011.0	977.3	916.8
22.5°	1019.3	1025.4	1056.7	1085.3	1096.1	1093.8	1083.2	1055.9	1028.0	993.5	924.1
25°	1061.2	1065.9	1098.5	1127.2	1133.8	1128.5	1115.1	1080.2	1049.7	1015.4	937.3
27.5°	1115.3	1116.0	1149.6	1173.9	1169.8	1166.2	1149.4	1110.6	1081.0	1046.7	960.1
30°	1174.7	1174.7	1204.3	1222.9	1210.5	1207.5	1190.7	1147.5	1121.1	1089.3	992.4
32.5°	1232.2	1234.8	1258.9	1270.6	1256.7	1253.7	1237.3	1194.1	1174.3	1154.3	1042.9
35°	1287.8	1289.7	1312.5	1318.9	1305.7	1306.6	1294.8	1258.2	1250.8	1248.2	1118.9
37.5°	1341.7	1342.1	1365.3	1369.4	1362.8	1370.0	1371.1	1338.7	1352.6	1373.2	1226.1
40°	1390.9	1391.3	1414.3	1424.8	1436.0	1445.4	1453.7	1436.5	1482.3	1530.2	1353.6
42.5°	1430.3	1434.8	1463.9	1483.7	1513.6	1531.5	1554.0	1553.2	1636.7	1708.6	1507.8
45°	1465.0	1472.7	1513.4	1548.1	1599.2	1627.7	1663.1	1690.8	1810.4	1907.3	1663.9
47.5°	1510.8	1518.0	1564.5	1621.3	1689.5	1727.0	1785.5	1845.4	2001.5	2102.4	1816.4
50°	1575.3	1572.1	1617.9	1699.5	1787.0	1836.2	1919.7	2009.4	2191.0	2272.4	1906.1
52.5°	1644.1	1642.8	1676.7	1784.5	1902.0	1959.5	2069.8	2178.9	2372.3	2389.5	1947.2
55°	1729.3	1720.1	1748.7	1881.4	2038.5	2100.3	2230.2	2346.7	2516.6	2455.5	1967.8
57.5°	1818.5	1803.4	1830.7	1989.3	2192.5	2265.6	2407.8	2510.3	2612.7	2500.7	1967.6
60°	1910.7	1892.9	1925.2	2124.4	2383.8	2468.3	2600.3	2620.8	2702.4	2523.5	1953.1
62.5°	1987.8	1977.2	2025.3	2268.7	2597.4	2680.4	2745.8	2721.3	2778.0	2541.1	1919.3
65°	2069.4	2070.0	2147.8	2437.2	2824.4	2880.4	2885.9	2851.6	2841.2	2537.5	1804.7
67.5°	2179.7	2189.9	2319.6	2665.9	3045.2	3088.5	3088.0	2992.8	2887.4	2393.5	1550.6
70°	2296.4	2320.5	2517.7	2927.7	3286.3	3330.2	3307.6	3082.7	2718.7	1935.5	1097.4
72.5°	2276.8	2318.6	2627.8	3092.7	3459.5	3492.9	3346.2	2861.9	2148.8	1124.9	467.3
75°	1756.6	1804.9	2409.5	2929.2	3277.8	3247.8	2875.1	2227.0	1174.3	313.9	105.2
77.5°	927.9	953.7	1591.7	2231.5	2555.8	2493.0	2025.3	1235.4	358.0	77.7	47.3
80°	486.0	492.0	693.6	1266.1	1577.5	1577.9	1200.3	542.6	147.6	39.8	31.7
82.5°	260.2	265.4	366.5	585.0	826.5	749.2	459.6	298.6	85.8	22.6	30.5
85°	62.6	63.7	207.9	267.3	325.0	232.1	136.5	250.7	23.2	13.2	24.7
87.5°	24.1	24.5	77.1	115.6	82.8	53.7	63.9	93.5	3.0	5.1	3.8
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°	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0
2.5°	933.7	928.1	914.5	897.2	881.9	870.8	854.2	843.4	836.1	835.9	833.1
5°	910.0	898.7	869.3	834.4	802.7	774.1	740.5	713.9	694.1	690.9	684.1
7.5°	884.7	866.1	821.0	766.5	713.2	659.1	596.3	557.3	523.9	507.9	506.2
10°	869.1	843.1	779.0	700.2	616.8	528.8	446.6	389.7	348.6	336.9	328.2
12.5°	865.9	831.6	746.7	638.1	518.8	402.5	311.6	251.1	218.3	207.9	205.1
15°	869.1	826.3	719.4	576.5	419.5	285.6	209.1	174.0	161.6	158.7	158.4
17.5°	871.0	819.9	688.5	508.1	323.3	204.0	160.2	149.9	148.0	147.8	148.2
20°	870.8	810.1	651.7	431.9	240.4	160.4	144.8	142.7	142.3	142.5	142.3
22.5°	869.3	798.6	611.2	353.3	181.7	143.3	138.2	136.9	136.7	136.7	136.7
25°	872.1	789.5	566.7	278.1	149.7	135.4	132.3	131.2	131.0	131.0	130.5
27.5°	882.1	784.4	517.9	214.0	135.2	128.4	125.9	125.7	125.0	124.8	125.2
30°	898.3	784.4	464.5	166.5	126.5	121.2	119.3	118.8	118.6	118.4	118.6
32.5°	926.8	790.3	406.1	138.4	118.2	113.1	111.8	112.4	111.8	111.8	111.8
35°	978.4	808.2	345.0	120.8	109.5	105.2	103.9	104.8	104.4	104.4	104.1
37.5°	1053.6	841.4	283.5	110.1	101.8	97.3	95.6	96.9	96.5	96.5	96.3
40°	1145.1	889.8	224.9	102.0	94.3	89.7	88.2	88.8	87.7	87.7	88.2
42.5°	1258.2	951.1	173.8	94.1	86.9	82.4	81.6	80.9	79.0	77.9	78.2
45°	1383.9	1015.0	135.4	86.5	79.9	76.2	75.0	73.3	70.1	67.9	68.1
47.5°	1496.1	1064.2	110.1	79.0	73.5	70.7	68.8	65.6	60.9	58.4	58.6
50°	1555.1	1071.7	93.7	71.6	67.5	64.7	62.0	57.1	51.5	48.8	48.6
52.5°	1570.2	1036.7	81.6	64.7	61.5	58.4	54.7	48.1	42.0	39.0	38.5
55°	1575.8	983.5	70.7	58.4	55.2	51.5	46.9	39.4	33.6	30.7	30.5
57.5°	1557.4	904.0	62.2	52.6	48.8	44.3	38.5	31.5	26.0	23.6	23.6
60°	1516.8	796.5	55.6	46.4	42.2	37.1	31.1	24.5	19.4	17.5	17.5
62.5°	1435.6	657.2	49.4	40.0	36.0	30.7	25.1	18.5	13.6	12.6	12.8
65°	1282.5	498.6	43.2	34.3	30.7	25.3	19.6	13.2	9.2	9.2	9.6
67.5°	1045.9	346.3	36.8	29.2	26.4	20.7	14.9	9.2	6.4	7.2	8.1
70°	692.4	194.2	31.5	24.1	22.6	16.4	11.1	6.2	5.1	6.8	8.3
72.5°	261.3	75.6	26.4	19.4	19.6	12.6	7.9	4.7	4.7	7.5	9.8
75°	72.8	37.1	19.0	14.3	15.3	9.2	5.8	4.0	4.5	8.5	11.5
77.5°	42.8	27.3	12.4	8.3	10.4	6.4	3.8	3.2	3.8	7.2	11.1
80°	34.5	14.5	7.2	4.3	5.8	3.6	2.6	1.9	1.1	2.8	5.8
82.5°	34.5	8.7	3.4	3.0	3.0	1.9	1.3	0.9	0.2	0.0	1.5
85°	23.2	3.6	2.1	1.9	1.5	0.6	0.4	0.2	0.0	0.0	0.0
87.5°	3.8	1.5	0.9	0.4	0.2	0.0	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)