

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: P386487

Luminaire Tested: GAW-SA2A-827-U-T4FT

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386487  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2A-827-U-T4FT  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7192 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

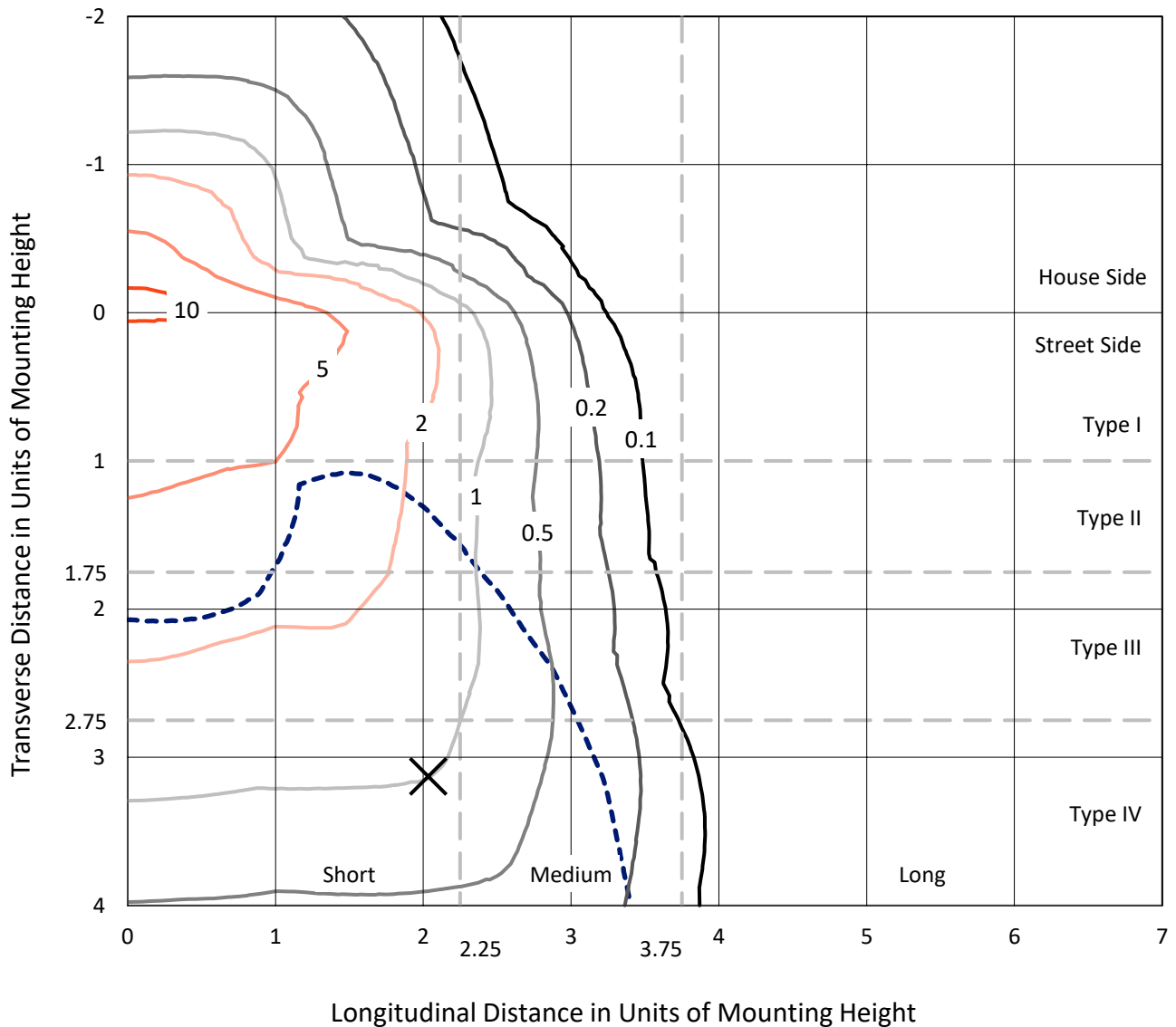
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

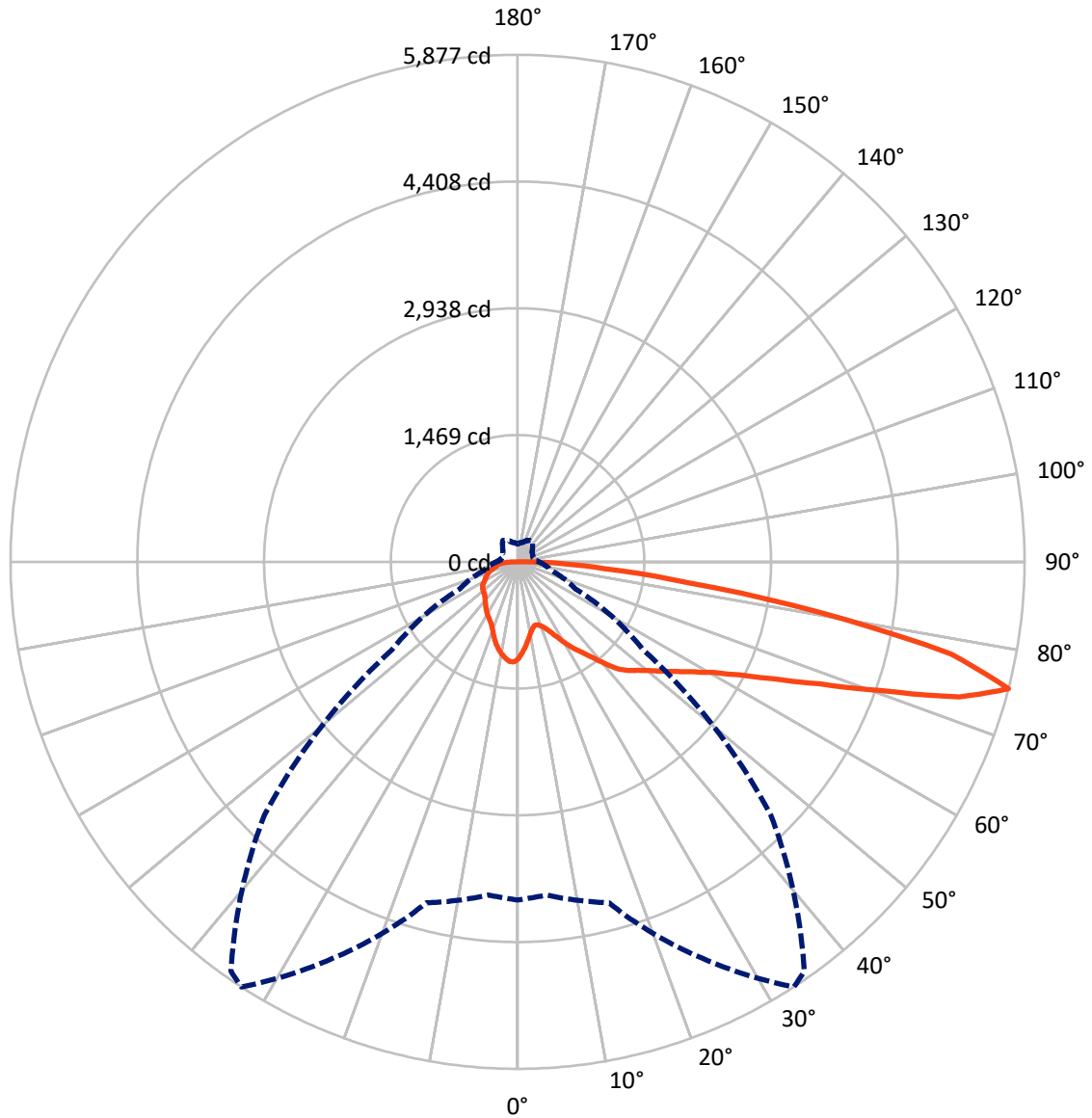
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P386487  
CATALOG NUMBER: GAW-SA2A-827-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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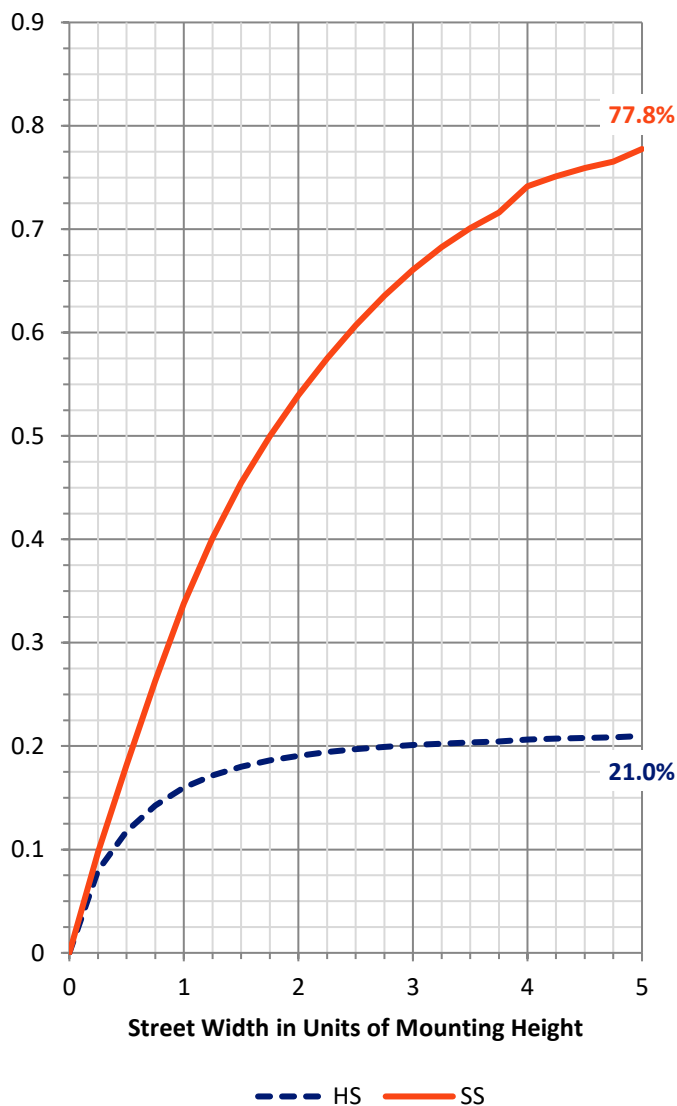
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1544.3	0.0	1544.3
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	5647.7	0.0	5647.7
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	7192.0	0.0	7192.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.7	1.4
10°-20°	275.4	3.8
20°-30°	449.7	6.3
30°-40°	669.7	9.3
40°-50°	960.5	13.4
50°-60°	1318.7	18.3
60°-70°	1650.9	23.0
70°-80°	1493.5	20.8
80°-90°	272.0	3.8
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°	7192.0	100.0
0°-180°	7192.0	100.0

**Coefficient of Utilization**



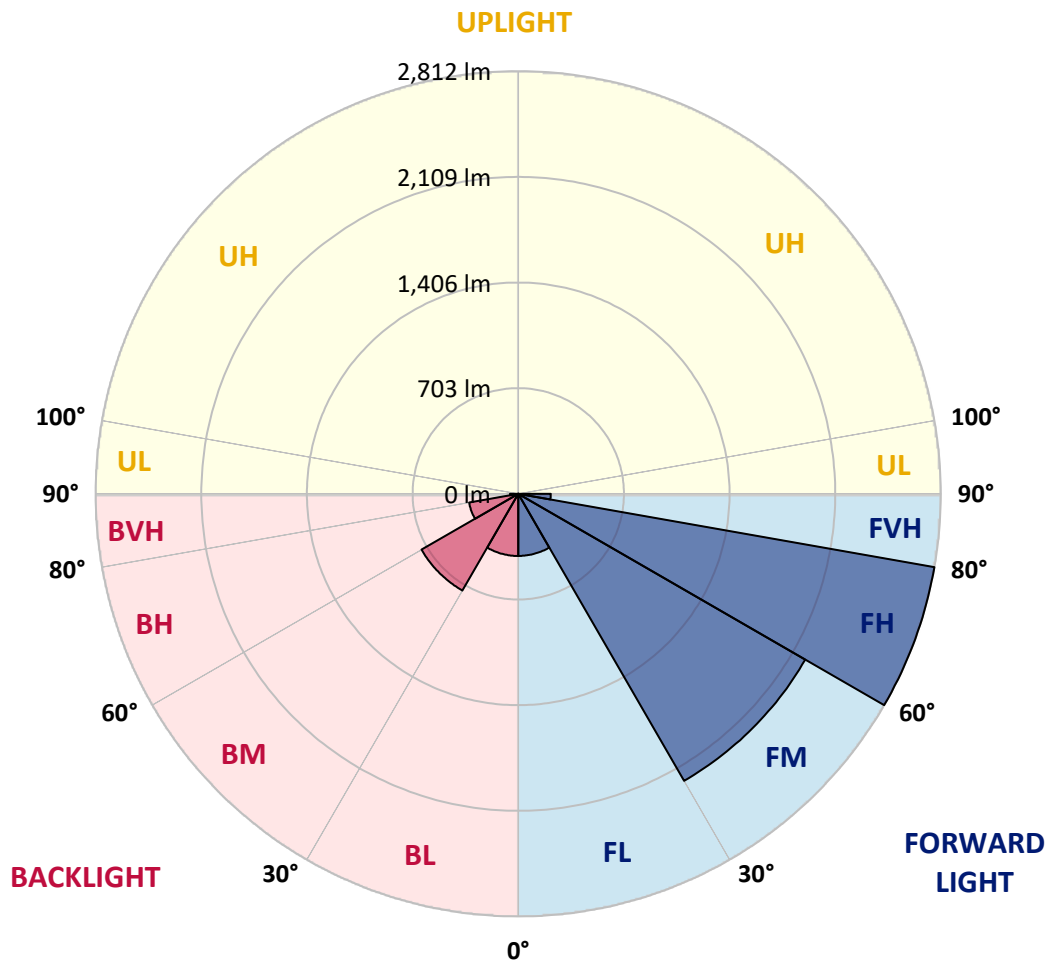
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 CATALOG NUMBER: GAW-SA2A-827-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	413.1	5.7			
FM (30°-60°)	2205.6	30.7			
FH (60°-80°)	2812.3	39.1			G2/5000
FVH (80°-90°)	216.7	3.0			G2/225
BL (0°-30°)	413.6	5.8	B1/500		
BM (30°-60°)	743.2	10.3	B1/1000		
BH (60°-80°)	332.1	4.6	B1/500		G1/500
BVH (80°-90°)	55.4	0.8			G1/100
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°	33°	35°	45°	55°	65°	75°	85°
0°	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1
2.5°	1043.9	1039.9	1047.4	1048.4	1054.8	1057.3	1066.3	1080.2	1091.6	1104.8	1116.7
5°	949.3	946.5	957.0	964.4	978.6	984.5	1005.6	1035.2	1061.5	1091.4	1118.4
7.5°	859.3	857.8	869.5	886.4	902.8	911.0	947.5	990.5	1034.5	1082.7	1124.1
10°	783.6	783.1	794.2	810.9	835.0	844.2	891.4	948.0	1009.6	1076.0	1133.8
12.5°	741.1	742.8	748.0	761.9	784.3	793.5	845.9	912.5	988.8	1073.7	1148.0
15°	751.5	754.2	745.3	744.8	760.7	767.9	817.1	887.1	973.8	1077.4	1168.6
17.5°	796.0	796.5	772.9	758.0	767.7	771.4	808.1	872.7	965.2	1085.9	1194.5
20°	858.6	857.3	815.6	790.8	796.0	797.0	820.8	873.0	964.4	1100.5	1228.0
22.5°	941.6	932.4	876.2	842.4	841.2	839.7	853.4	891.4	975.3	1124.4	1268.0
25°	1049.9	1041.2	963.9	917.7	907.8	904.0	906.0	930.6	997.0	1150.0	1312.7
27.5°	1170.4	1155.2	1080.7	1015.3	994.7	989.5	977.6	986.0	1020.6	1174.6	1365.9
30°	1271.2	1263.0	1197.9	1120.4	1096.1	1088.6	1057.3	1048.1	1054.6	1208.1	1432.9
32.5°	1327.6	1322.1	1282.6	1220.0	1197.4	1187.0	1142.8	1124.4	1109.2	1261.0	1523.9
35°	1395.9	1392.5	1368.6	1323.1	1289.6	1278.7	1244.4	1225.3	1186.3	1333.8	1641.4
37.5°	1482.9	1479.2	1479.7	1442.9	1402.9	1392.7	1370.1	1350.0	1286.1	1429.5	1769.1
40°	1581.3	1574.1	1571.3	1569.6	1544.2	1538.5	1526.6	1499.3	1411.3	1543.7	1895.0
42.5°	1729.3	1703.7	1649.1	1669.7	1694.8	1691.8	1701.5	1662.3	1550.5	1678.9	2018.0
45°	1872.2	1830.2	1735.8	1740.3	1795.2	1811.8	1884.3	1856.5	1701.3	1827.0	2145.2
47.5°	1937.3	1905.5	1825.2	1825.5	1879.9	1914.4	2073.4	2053.5	1859.8	1995.1	2300.5
50°	2010.1	1978.3	1906.2	1933.3	1980.7	2017.5	2256.0	2245.8	2010.6	2179.2	2486.5
52.5°	2089.6	2035.6	1989.9	2038.4	2105.0	2147.7	2438.8	2411.0	2148.9	2364.6	2700.4
55°	2090.5	2075.9	2110.7	2146.2	2245.8	2298.2	2630.4	2556.9	2261.7	2546.7	2874.6
57.5°	2209.5	2185.7	2259.5	2275.9	2406.1	2465.2	2820.9	2683.8	2376.5	2686.3	2968.5
60°	2367.0	2346.7	2407.0	2450.3	2604.3	2683.3	3024.4	2814.2	2466.7	2791.6	2964.0
62.5°	2639.1	2616.0	2615.2	2675.8	2883.3	2975.2	3252.7	2942.2	2502.4	2812.5	2837.6
65°	3037.3	3000.5	2931.2	2960.1	3268.6	3360.3	3507.8	3034.8	2455.2	2700.7	2511.9
67.5°	3424.9	3423.6	3338.4	3397.5	3777.4	3850.9	3798.5	3044.0	2307.9	2311.4	1934.0
70°	3811.2	3816.1	3801.7	4007.4	4464.8	4541.3	4108.1	2920.6	1976.8	1669.2	1158.7
72.5°	4117.2	4116.0	4188.5	4718.9	5356.9	5339.8	4368.9	2546.4	1419.3	901.1	553.8
75°	3919.0	3875.8	4091.9	5071.2	5876.9	5793.2	4147.1	1776.3	736.6	410.2	298.1
77.5°	2556.1	2597.1	2914.3	4189.3	5140.5	5038.7	3042.5	828.8	347.1	269.1	216.1
80°	925.7	968.9	1364.6	2373.0	3541.6	3525.0	1498.3	340.6	234.8	203.2	157.5
82.5°	318.5	334.4	538.3	1053.8	1999.6	2074.1	563.7	193.5	170.7	144.1	107.8
85°	125.0	143.1	246.2	507.0	1008.6	1016.1	228.3	115.8	118.7	94.4	59.1
87.5°	47.5	57.6	117.8	235.5	460.6	423.1	81.7	55.2	67.6	56.1	28.1
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°	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1
2.5°	1125.9	1131.1	1142.0	1149.5	1157.4	1159.7	1160.7	1162.7	1164.6	1163.9	1164.1
5°	1132.8	1143.0	1160.7	1168.1	1171.6	1167.6	1159.9	1153.7	1149.2	1146.8	1146.0
7.5°	1144.3	1158.7	1177.6	1176.3	1168.4	1150.7	1130.9	1116.0	1103.5	1099.1	1096.6
10°	1159.4	1176.3	1189.5	1175.3	1152.2	1121.7	1091.9	1068.7	1050.1	1042.9	1041.7
12.5°	1178.8	1195.9	1198.4	1168.4	1130.1	1088.4	1047.9	1017.3	989.5	980.6	978.6
15°	1203.9	1220.0	1204.6	1156.2	1102.8	1046.6	994.2	952.7	923.4	912.5	908.5
17.5°	1230.2	1245.6	1205.9	1136.1	1067.0	997.2	931.4	888.9	855.3	842.7	841.2
20°	1261.8	1268.7	1200.7	1107.3	1017.8	933.1	863.8	823.8	805.9	797.0	796.0
22.5°	1300.8	1293.3	1188.7	1068.3	955.5	859.1	802.7	784.0	779.6	777.6	778.3
25°	1342.0	1319.2	1171.1	1017.3	876.7	785.0	758.0	763.2	769.1	768.4	768.4
27.5°	1387.5	1345.5	1144.0	949.8	789.5	724.4	727.7	746.8	755.7	755.5	755.2
30°	1445.9	1375.3	1109.5	868.5	708.0	681.7	701.3	724.7	736.8	736.3	736.6
32.5°	1517.7	1408.1	1062.5	777.8	649.1	650.1	672.8	695.9	710.0	708.8	709.0
35°	1601.6	1444.9	998.9	688.4	610.1	625.1	642.9	659.1	672.5	670.8	669.0
37.5°	1693.1	1480.9	914.5	608.4	578.3	601.7	616.6	619.3	625.5	621.1	617.8
40°	1780.0	1508.5	805.7	542.8	546.3	581.8	591.5	580.6	569.4	567.9	563.4
42.5°	1855.8	1517.7	695.6	490.4	512.5	561.0	566.9	544.1	523.9	514.5	510.5
45°	1935.8	1520.9	593.0	446.4	480.0	542.3	548.8	518.2	489.9	469.5	462.8
47.5°	2040.4	1544.2	513.3	413.9	455.1	529.9	539.1	497.6	460.8	431.8	425.6
50°	2177.2	1590.5	448.4	389.0	439.0	521.7	532.1	477.5	437.0	402.0	395.8
52.5°	2329.3	1632.9	396.0	368.9	423.3	507.3	523.2	463.1	414.6	374.4	367.7
55°	2435.6	1600.4	353.8	348.1	403.0	486.7	510.8	450.9	382.6	347.6	341.6
57.5°	2456.0	1489.1	321.7	326.4	378.4	460.8	491.6	423.8	365.2	335.9	329.7
60°	2400.3	1334.1	297.9	306.6	352.0	428.3	455.9	404.7	348.5	323.5	318.2
62.5°	2260.5	1175.3	280.2	288.7	327.4	395.3	433.5	384.6	331.7	309.3	304.1
65°	1978.0	986.8	263.3	272.8	304.6	366.7	413.4	365.9	315.0	297.9	292.9
67.5°	1493.1	739.1	247.4	255.9	284.2	341.8	391.5	347.6	298.9	287.9	282.0
70°	879.2	462.8	229.3	238.2	262.8	316.0	368.2	327.4	278.7	273.8	266.1
72.5°	409.2	278.5	208.7	217.4	236.0	281.5	338.1	301.1	254.9	244.0	233.5
75°	244.2	203.7	184.3	192.0	205.2	244.7	300.4	274.3	232.3	217.9	206.9
77.5°	182.6	155.8	157.5	165.7	176.4	214.1	266.1	253.2	214.9	203.7	196.3
80°	131.4	118.3	128.4	137.4	148.6	194.8	254.9	234.0	194.3	179.4	172.4
82.5°	87.7	85.0	96.6	105.8	116.8	170.4	239.5	205.0	166.0	147.1	131.7
85°	48.4	51.2	65.1	69.1	78.5	120.0	196.3	164.7	125.0	100.6	96.1
87.5°	20.1	23.6	35.0	33.8	41.7	71.5	129.2	99.4	79.5	59.4	46.2
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)