

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: P386790

Luminaire Tested: GAW-SA2C-727-U-T3-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386790  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2C-727-U-T3-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8997 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

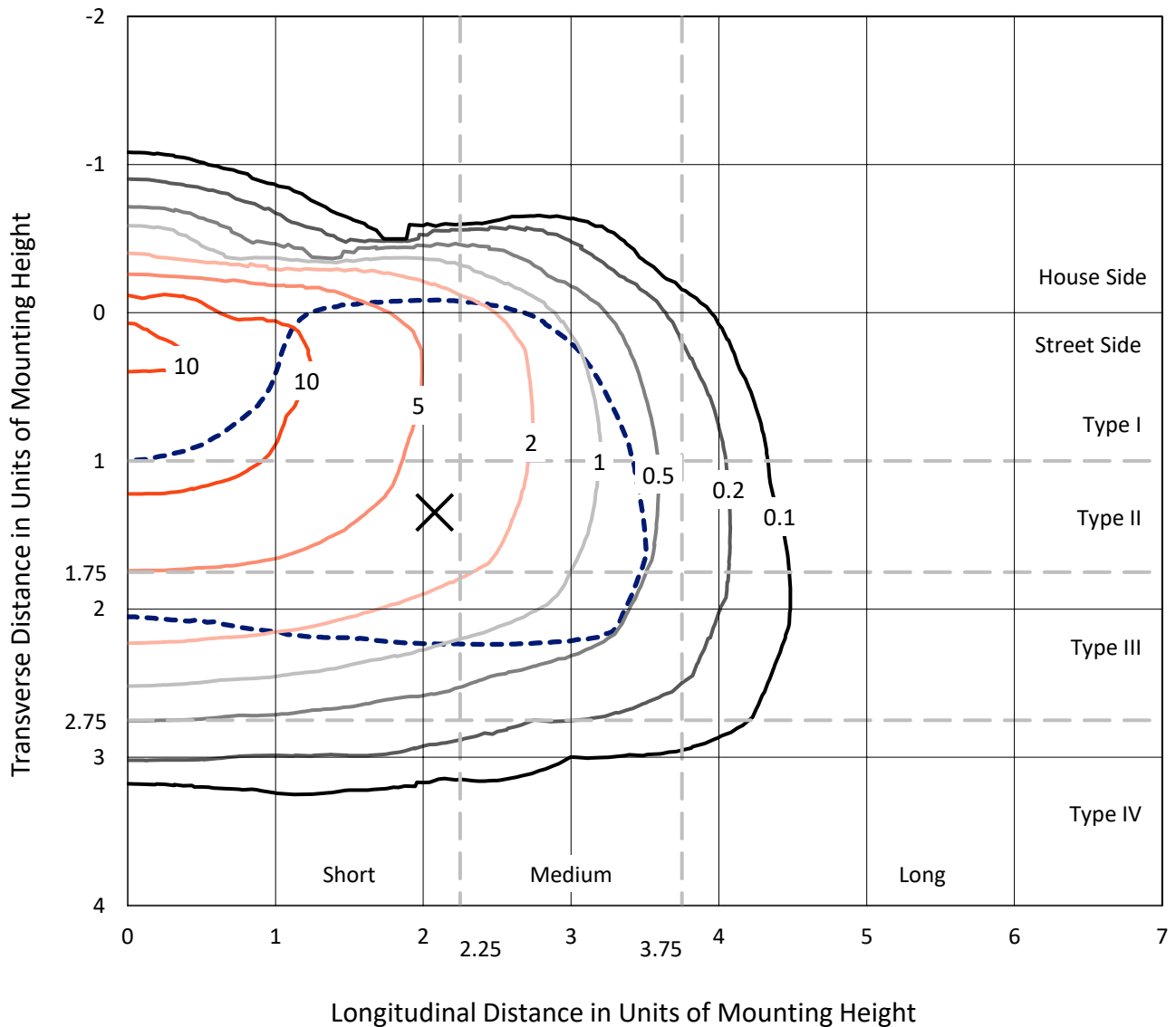
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

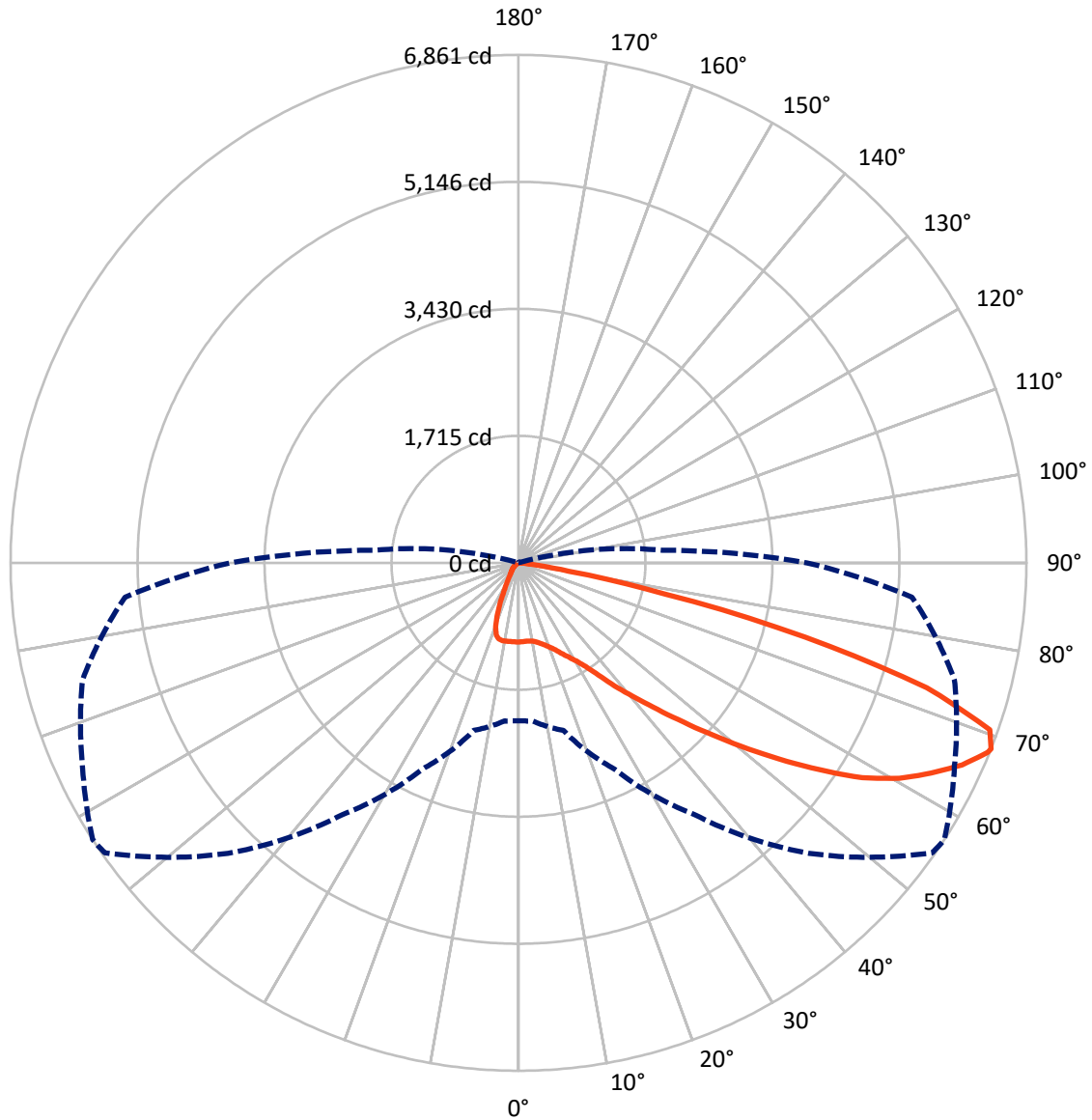
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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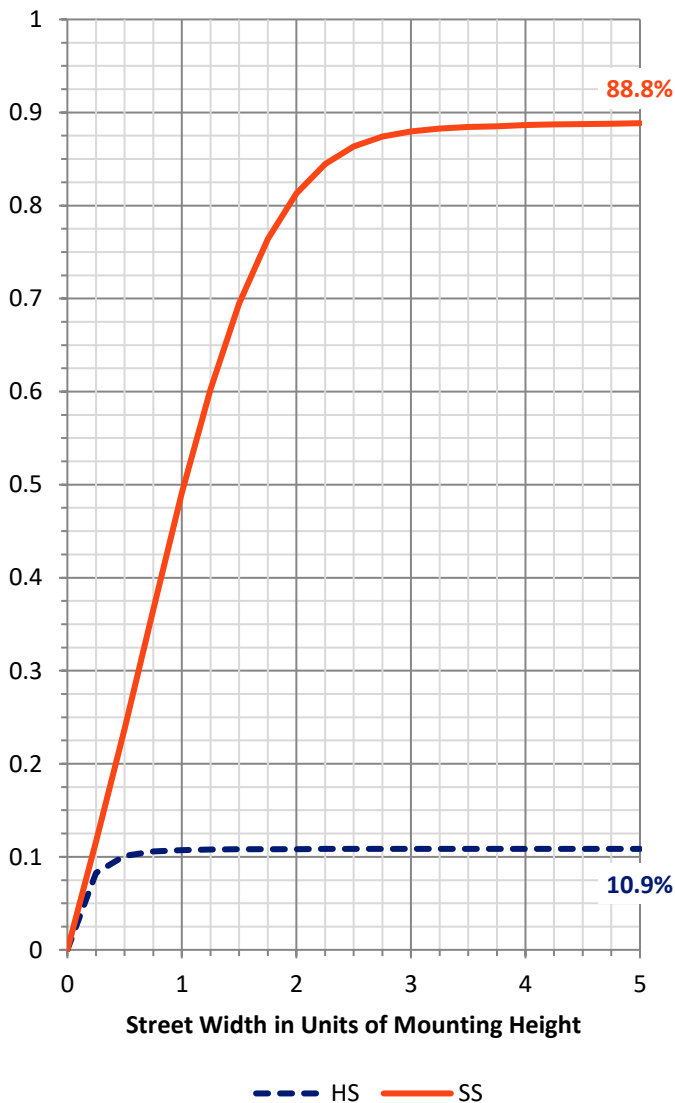
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	986.6	0.0	986.6
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	8010.4	0.0	8010.4
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	8997.0	0.0	8997.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.1	1.1
10°-20°	277.2	3.1
20°-30°	478.3	5.3
30°-40°	825.5	9.2
40°-50°	1412.0	15.7
50°-60°	2259.1	25.1
60°-70°	2610.1	29.0
70°-80°	997.4	11.1
80°-90°	37.4	0.4
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°	8997.0	100.0
0°-180°	8997.0	100.0

**Coefficient of Utilization**



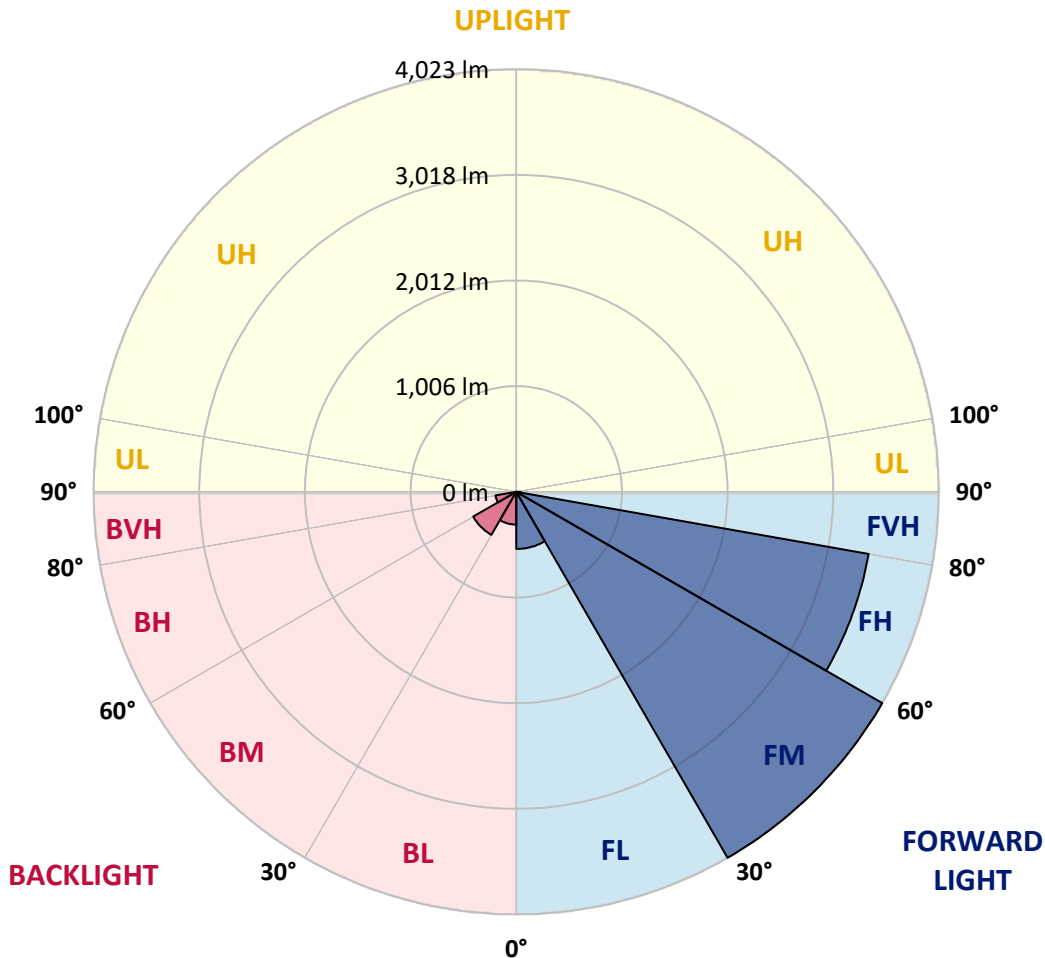
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	543.8	6.0			
FM (30°-60°)	4023.4	44.7			
FH (60°-80°)	3406.6	37.9			G2/5000
FVH (80°-90°)	36.7	0.4			G1/100
BL (0°-30°)	311.8	3.5	B1/500		
BM (30°-60°)	473.2	5.3	B1/1000		
BH (60°-80°)	200.9	2.2	B1/500		G1/500
BVH (80°-90°)	0.7	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1
2.5°	1044.0	1048.7	1052.1	1054.2	1056.7	1062.3	1064.0	1066.5	1067.8	1067.8	1070.8
5°	1002.7	1007.8	1015.1	1021.0	1032.9	1048.2	1059.3	1063.6	1071.2	1078.0	1081.8
7.5°	964.4	970.4	978.9	992.9	1013.4	1038.0	1061.0	1067.0	1081.8	1096.3	1103.5
10°	939.8	944.4	955.5	975.5	1002.3	1036.7	1069.1	1076.3	1101.8	1126.1	1139.7
12.5°	931.2	935.5	947.0	969.5	1002.7	1043.1	1087.8	1098.4	1135.9	1171.2	1190.3
15°	943.6	944.4	956.8	978.0	1010.8	1058.9	1118.9	1131.6	1178.8	1224.8	1248.6
17.5°	991.2	987.4	993.8	1003.1	1029.1	1079.7	1151.6	1170.8	1233.7	1287.7	1310.3
20°	1110.3	1110.3	1095.9	1070.4	1070.8	1112.0	1195.9	1217.6	1294.6	1357.1	1377.5
22.5°	1314.1	1310.3	1281.4	1218.8	1161.4	1167.8	1249.9	1278.0	1367.7	1434.5	1441.3
25°	1559.2	1554.5	1509.8	1421.8	1322.2	1258.0	1323.1	1355.4	1454.9	1514.1	1500.0
27.5°	1818.7	1814.8	1770.6	1661.3	1519.6	1401.8	1410.3	1440.9	1543.8	1602.1	1557.5
30°	2070.1	2071.4	2027.6	1915.2	1754.9	1585.1	1520.9	1538.7	1630.2	1689.3	1625.5
32.5°	2309.2	2310.9	2273.0	2147.5	1997.8	1798.3	1674.0	1669.3	1730.6	1788.9	1715.7
35°	2522.3	2526.6	2500.6	2403.2	2244.5	2035.6	1872.7	1861.6	1873.1	1939.1	1854.0
37.5°	2727.8	2730.3	2710.8	2628.7	2495.9	2296.4	2123.7	2108.0	2083.3	2133.9	2036.5
40°	2952.8	2946.5	2923.9	2849.5	2735.5	2584.4	2393.4	2366.2	2323.2	2368.3	2276.4
42.5°	3162.1	3154.9	3158.7	3074.5	2978.4	2880.5	2707.8	2661.0	2635.9	2687.8	2570.8
45°	3423.8	3420.0	3432.7	3359.5	3281.7	3210.6	3068.1	3017.1	3006.0	3066.9	2926.9
47.5°	3682.0	3691.4	3730.9	3699.9	3668.4	3605.9	3449.7	3426.8	3433.6	3507.2	3302.5
50°	3897.3	3908.3	4016.8	4052.6	4098.1	4061.5	3904.9	3890.9	3917.7	3984.1	3706.7
52.5°	4053.0	4075.5	4210.4	4375.0	4540.9	4565.6	4409.5	4396.7	4432.9	4443.1	4018.9
55°	4161.0	4181.0	4333.8	4635.0	4972.7	5079.1	4982.1	4932.7	4925.9	4825.1	4347.4
57.5°	4180.2	4178.1	4397.6	4803.0	5311.4	5585.8	5524.5	5476.0	5336.5	5178.2	4723.9
60°	4072.1	4084.5	4339.3	4861.3	5524.1	5969.1	5973.7	5910.8	5693.4	5521.5	5088.9
62.5°	3739.4	3789.6	4047.0	4708.6	5521.5	6123.5	6303.0	6255.0	5995.0	5802.7	5459.0
65°	3200.0	3217.9	3463.3	4185.3	5148.4	6058.8	6599.5	6581.7	6266.9	6075.9	5649.2
67.5°	2336.8	2298.1	2555.9	3295.7	4358.9	5681.9	6812.3	6834.8	6476.6	6132.0	5446.7
68°	2132.6	2144.1	2344.9	3075.8	4152.1	5548.8	6826.3	6860.8	6497.4	6095.4	5336.0
70°	1271.2	1293.3	1472.4	2117.7	3158.7	4795.3	6674.8	6753.5	6373.2	5718.1	4615.4
72.5°	324.6	351.0	520.3	947.8	1804.2	3378.7	5634.7	5767.8	5533.4	4638.8	3115.8
75°	133.6	140.4	185.9	312.3	672.2	1522.2	3713.9	3998.9	3836.0	2777.1	1408.1
77.5°	92.3	97.0	119.5	173.1	291.0	516.0	1820.8	2026.7	1825.9	947.8	307.2
80°	66.4	70.2	85.5	115.3	167.2	184.2	593.5	686.2	545.0	208.0	76.2
82.5°	39.6	42.5	63.8	82.1	101.7	88.1	147.6	167.6	157.8	103.4	34.0
85°	19.6	23.0	43.0	58.7	54.9	37.0	45.1	50.2	62.1	63.0	18.3
87.5°	1.3	2.6	25.1	35.3	15.3	8.5	13.2	16.2	22.1	31.1	7.7
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°	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1
2.5°	1072.1	1072.5	1069.5	1068.2	1069.1	1064.0	1061.8	1062.7	1062.7	1064.0	1061.8
5°	1082.7	1082.7	1077.6	1070.8	1067.0	1057.2	1050.8	1049.1	1047.8	1047.0	1045.3
7.5°	1105.7	1103.1	1094.2	1079.3	1066.5	1045.3	1029.1	1020.6	1016.3	1014.6	1013.4
10°	1142.7	1138.0	1123.1	1095.5	1066.1	1028.2	992.9	967.8	947.0	938.5	933.4
12.5°	1192.5	1185.6	1160.5	1114.6	1063.1	993.4	916.8	843.2	774.7	746.6	732.6
15°	1249.9	1240.1	1200.5	1130.8	1045.7	914.7	748.3	619.4	524.5	488.8	473.5
17.5°	1308.2	1295.4	1235.4	1141.0	993.4	751.7	525.0	396.5	333.1	316.1	310.1
20°	1366.9	1348.2	1265.6	1133.3	875.1	542.0	346.3	289.7	271.4	266.3	264.6
22.5°	1422.6	1393.7	1292.9	1103.5	693.0	363.7	274.0	256.1	250.1	247.2	246.3
25°	1471.1	1430.7	1316.7	1011.6	490.5	274.8	246.7	240.8	233.1	227.6	228.0
27.5°	1516.6	1467.7	1331.1	860.2	327.1	234.8	228.5	220.4	206.3	198.2	198.2
30°	1571.5	1517.0	1341.8	662.0	240.8	207.6	202.5	190.2	171.0	160.4	160.4
32.5°	1654.0	1591.9	1335.0	464.6	199.5	182.5	170.6	153.6	132.7	122.5	122.1
35°	1780.4	1707.6	1286.5	304.6	176.1	158.7	139.5	118.7	100.4	91.9	91.5
37.5°	1950.6	1862.5	1177.6	217.8	157.8	136.6	113.6	90.6	77.0	71.5	71.0
40°	2171.3	2042.4	1021.9	176.5	140.8	115.3	87.6	70.2	60.8	56.6	57.0
42.5°	2436.4	2235.2	835.1	152.3	124.2	94.9	68.5	55.3	49.3	46.4	45.5
45°	2730.8	2425.3	639.4	135.7	107.6	76.6	53.6	43.8	39.1	37.4	37.4
47.5°	3054.5	2610.4	468.0	121.2	89.8	59.1	43.0	35.7	31.9	30.6	30.2
50°	3348.5	2738.9	337.4	105.9	73.6	46.8	34.9	29.8	27.2	25.5	25.5
52.5°	3593.5	2779.3	248.4	89.3	59.6	37.4	28.9	25.5	23.0	21.7	21.7
55°	3809.2	2762.7	184.6	73.6	48.1	30.6	24.7	21.7	19.6	18.3	18.3
57.5°	4016.0	2709.1	137.8	60.0	38.7	24.7	20.8	18.3	16.2	15.3	15.3
60°	4184.9	2619.7	102.5	48.5	31.1	20.0	17.4	14.9	13.2	11.9	11.9
62.5°	4321.8	2521.0	75.3	40.0	24.7	15.7	13.6	12.3	9.8	8.5	8.5
65°	4322.7	2357.3	56.6	33.2	19.1	12.3	10.2	9.8	6.4	5.1	4.7
67.5°	4010.0	2032.2	43.4	28.5	14.9	9.4	7.7	8.1	3.4	2.1	1.7
68°	3896.4	1949.7	40.8	28.1	14.0	8.9	7.2	8.1	3.0	1.7	1.3
70°	3285.1	1551.1	32.8	27.2	12.3	6.8	6.0	8.1	2.6	1.3	0.9
72.5°	2101.2	900.2	24.2	21.7	9.4	5.1	3.8	7.2	2.6	0.9	0.4
75°	894.2	279.1	16.6	15.3	5.5	3.8	2.6	4.7	1.7	0.4	0.0
77.5°	188.5	63.0	9.8	9.4	3.8	2.6	1.7	1.3	0.4	0.0	0.0
80°	48.5	18.3	5.1	4.7	2.1	1.3	0.9	0.0	0.0	0.0	0.0
82.5°	15.3	7.2	3.0	2.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.7	4.3	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	1.3	0.4	0.0	0.0	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)