

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: P387150

Luminaire Tested: GAW-SA2D-827-U-T2-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387150  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2D-827-U-T2-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8468 lumens  
Efficiency: N/A  
Efficacy: 66.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

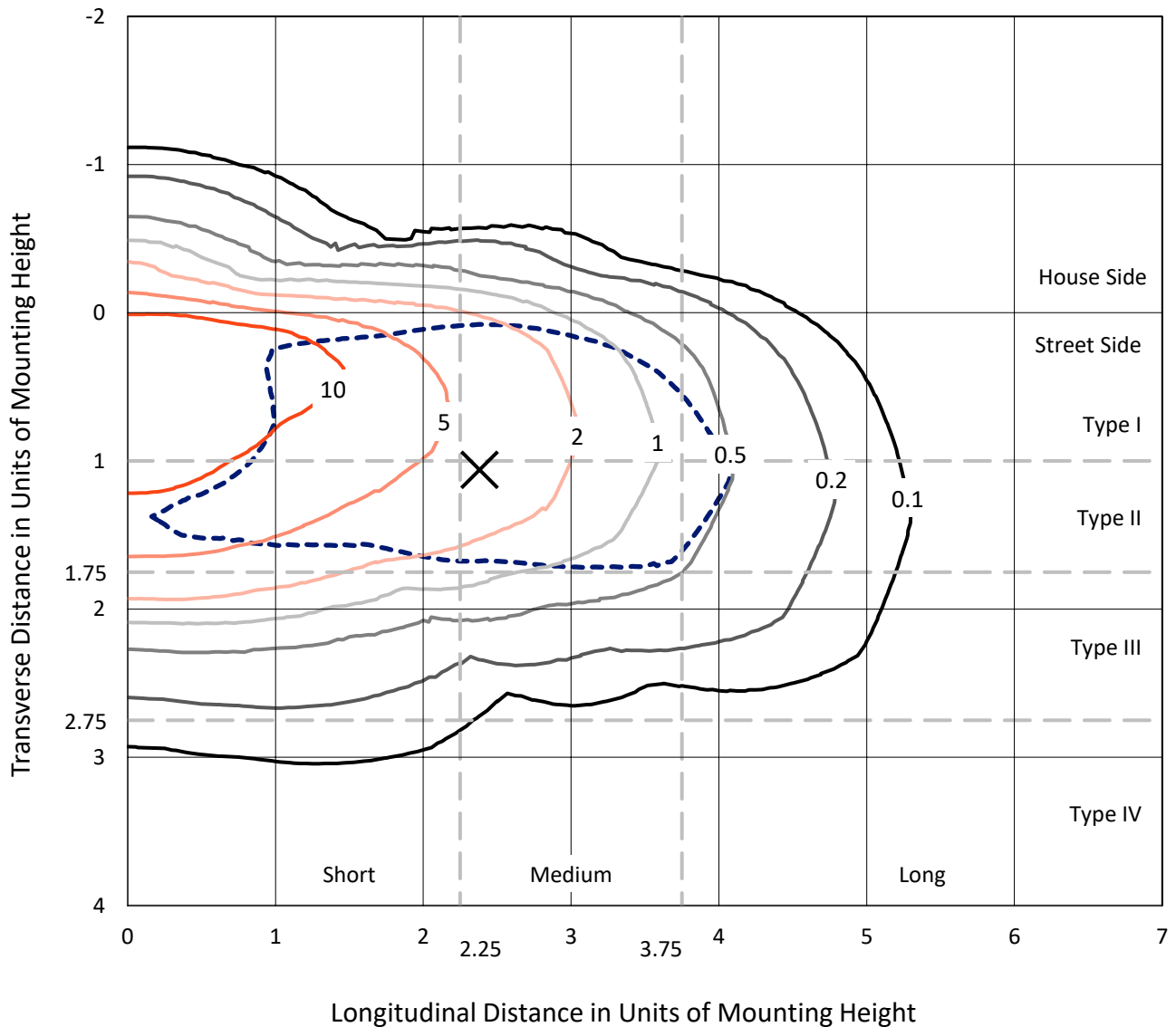
Input Watts (W): 128  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

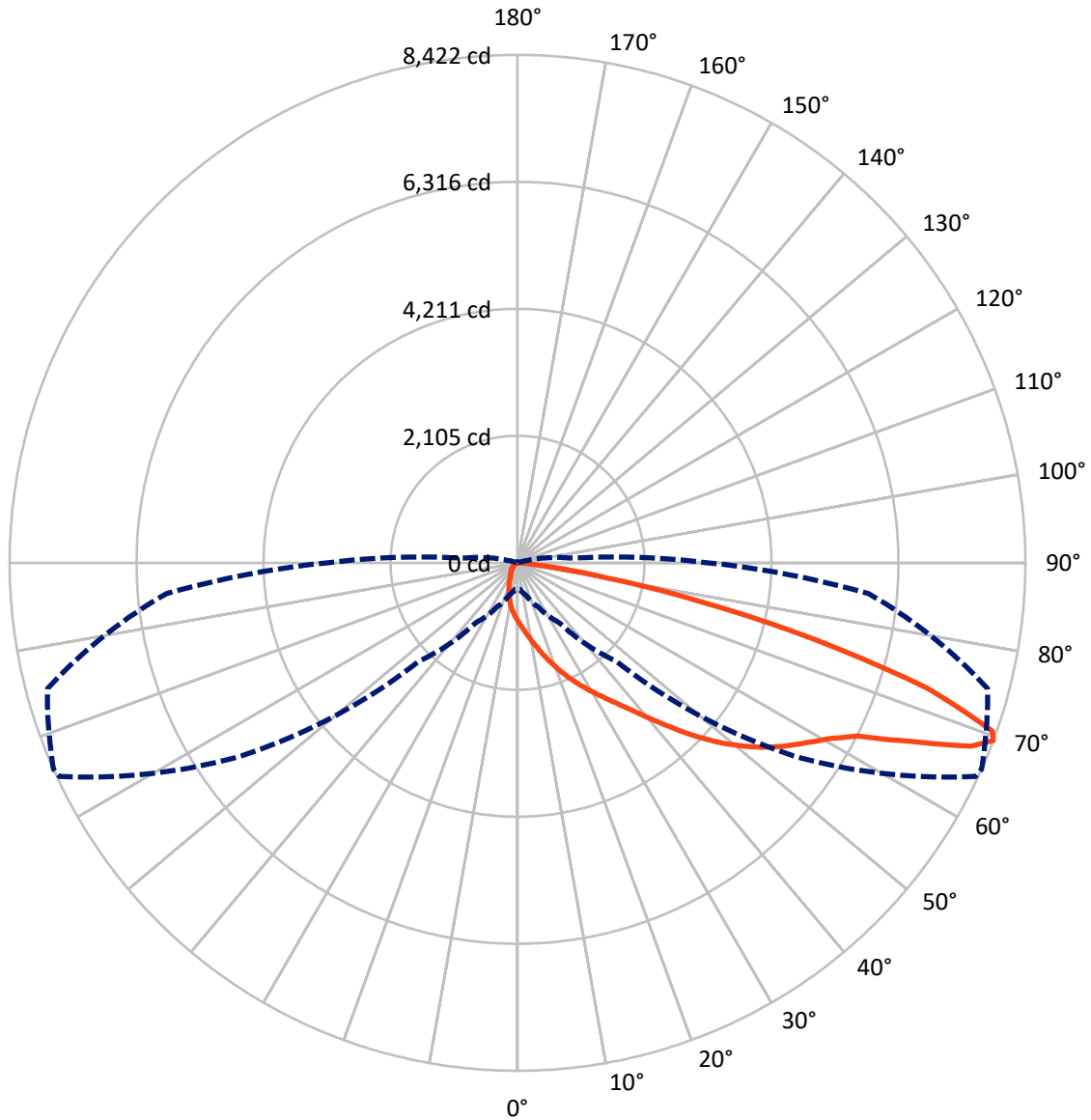
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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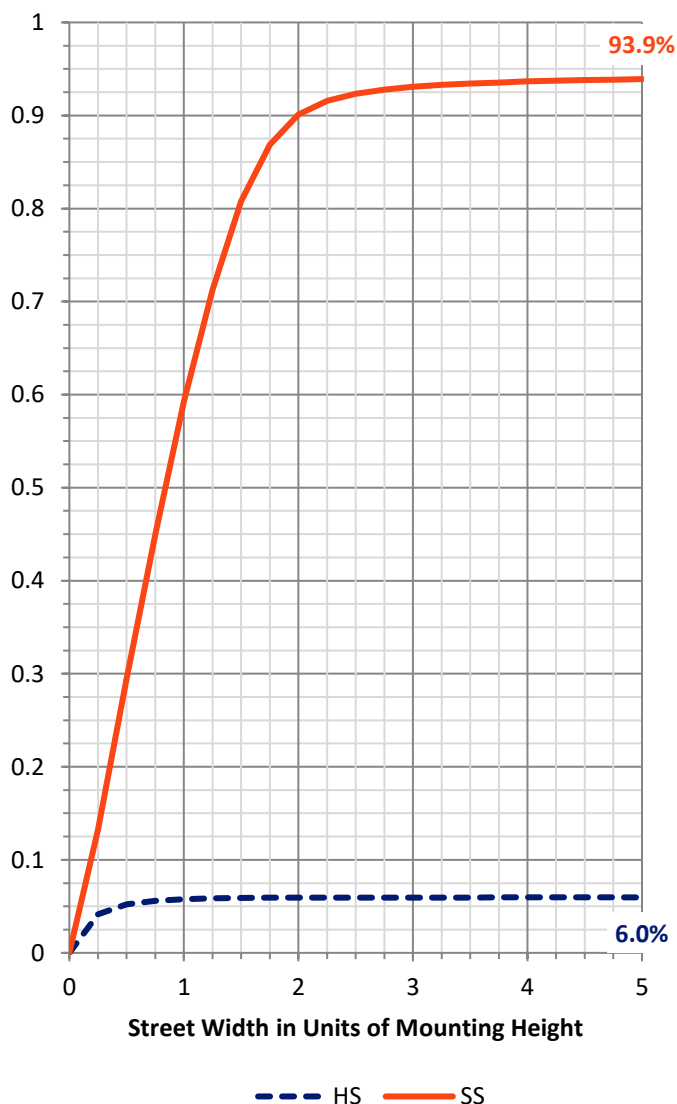
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	508.0	0.0	508.0
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	7960.0	0.0	7960.0
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	8468.0	0.0	8468.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.2	1.1
10°-20°	277.2	3.3
20°-30°	482.8	5.7
30°-40°	847.0	10.0
40°-50°	1417.8	16.7
50°-60°	2084.0	24.6
60°-70°	2139.8	25.3
70°-80°	1056.3	12.5
80°-90°	69.8	0.8
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°	8468.0	100.0
0°-180°	8468.0	100.0

**Coefficient of Utilization**

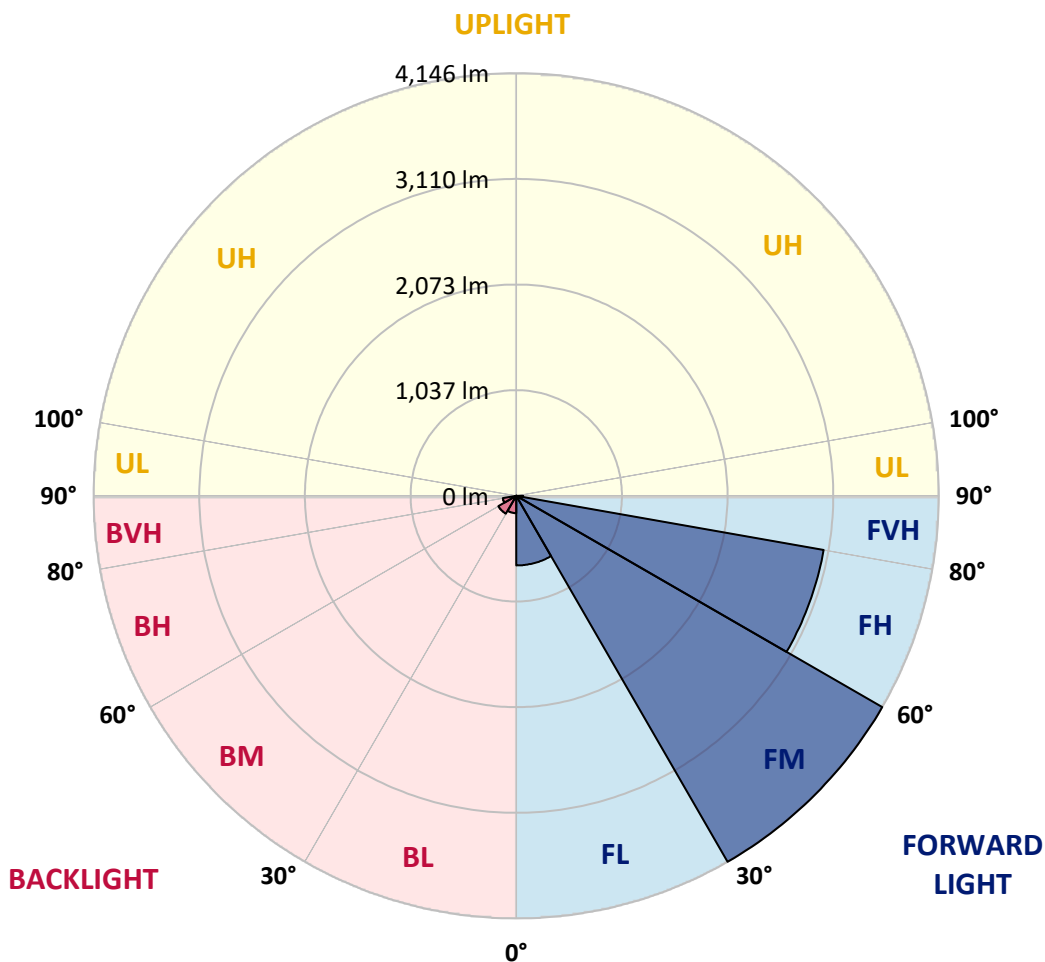


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	683.3	8.1			
FM (30°-60°)	4146.3	49.0			
FH (60°-80°)	3062.3	36.2			G2/5000
FVH (80°-90°)	68.2	0.8			G1/100
BL (0°-30°)	169.9	2.0	B1/500		
BM (30°-60°)	202.5	2.4	B0/220		
BH (60°-80°)	133.9	1.6	B1/500		G1/500
BVH (80°-90°)	1.7	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7
2.5°	1134.2	1129.4	1127.4	1118.5	1103.3	1091.6	1069.1	1042.9	1038.1	1012.8	981.8
5°	1281.4	1277.4	1274.6	1262.1	1246.4	1217.1	1176.1	1127.4	1118.1	1069.9	1007.9
7.5°	1384.0	1391.2	1391.2	1383.2	1363.5	1341.4	1291.1	1224.7	1213.1	1139.0	1042.9
10°	1443.9	1452.8	1459.6	1466.4	1463.6	1454.8	1407.3	1332.5	1318.4	1220.3	1083.5
12.5°	1449.6	1458.4	1477.7	1506.3	1534.0	1554.1	1524.4	1452.0	1435.9	1314.4	1131.8
15°	1418.2	1427.4	1457.2	1512.7	1579.9	1638.6	1648.2	1584.3	1567.8	1426.6	1192.1
17.5°	1363.5	1369.5	1412.1	1489.0	1594.3	1702.1	1760.5	1726.3	1711.0	1554.9	1259.3
20°	1322.9	1327.3	1364.7	1447.1	1585.5	1742.0	1866.6	1877.1	1861.0	1692.5	1332.1
22.5°	1392.4	1400.5	1401.7	1440.7	1561.4	1761.7	1959.9	2025.5	2013.4	1838.5	1403.7
25°	1582.7	1591.9	1561.4	1537.2	1581.9	1770.5	2040.0	2177.5	2167.9	1995.7	1475.7
27.5°	1834.1	1843.7	1804.3	1732.3	1689.3	1803.9	2111.2	2332.0	2331.6	2162.3	1553.3
30°	2081.0	2090.7	2050.4	1978.5	1879.5	1898.4	2172.7	2493.7	2496.1	2334.0	1635.8
32.5°	2340.0	2352.1	2310.7	2218.2	2114.8	2061.7	2259.2	2656.2	2669.8	2533.1	1728.7
35°	2634.4	2636.1	2577.7	2480.8	2361.8	2280.1	2398.0	2838.4	2870.9	2779.6	1846.5
37.5°	2923.2	2934.9	2887.0	2734.2	2624.8	2532.3	2604.3	3066.0	3112.3	3080.9	2000.6
40°	3137.2	3161.7	3154.9	2990.0	2886.2	2820.3	2860.5	3336.7	3395.4	3431.6	2194.8
42.5°	3271.5	3290.0	3321.4	3222.1	3128.0	3138.8	3162.9	3652.0	3724.4	3831.4	2418.1
45°	3425.6	3434.4	3460.6	3416.7	3353.2	3462.6	3483.9	4007.2	4083.2	4261.4	2665.8
47.5°	3613.8	3634.7	3642.0	3601.8	3572.8	3749.0	3793.2	4330.1	4436.7	4721.9	2928.1
50°	3853.5	3859.2	3871.6	3845.5	3816.5	3995.1	4070.7	4669.2	4766.1	5184.0	3186.7
52.5°	4088.0	4108.1	4151.6	4135.1	4123.4	4204.7	4318.1	4974.9	5083.1	5569.3	3444.9
55°	4155.6	4172.9	4322.9	4425.5	4520.4	4462.9	4554.6	5248.8	5365.8	5913.6	3693.5
57.5°	3885.7	3920.7	4180.5	4447.6	4841.4	4864.3	4879.6	5529.9	5634.9	6177.5	3952.1
60°	3203.6	3210.4	3636.7	4094.9	4788.3	5214.6	5354.2	5832.0	5920.1	6423.2	4261.8
62.5°	2037.6	2107.2	2574.9	3221.7	4226.8	5163.9	5928.1	6288.9	6321.1	6718.0	4705.8
65°	970.5	1015.6	1352.6	1990.5	3061.6	4515.2	6324.3	7115.4	7129.9	7302.5	5299.1
67.5°	537.3	559.1	719.5	1071.5	1789.8	3193.1	6164.2	8094.4	8108.1	7899.3	5819.5
69°	420.3	438.8	565.1	807.6	1213.5	2295.0	5578.2	8381.2	8421.8	8070.3	5838.0
70°	356.8	374.9	486.7	682.1	975.8	1773.3	4965.2	8310.0	8353.0	8054.2	5700.1
72.5°	218.4	228.9	324.2	480.2	654.0	892.1	3062.0	7027.7	7100.5	7388.1	4898.9
75°	147.2	152.8	202.7	331.4	467.8	459.3	1590.7	4953.6	5111.2	5747.1	3618.2
77.5°	105.4	110.6	135.9	214.4	327.8	303.3	720.4	3078.5	3112.3	3446.9	1973.2
80°	59.9	64.8	96.1	127.5	222.4	202.3	286.4	1470.5	1487.4	1478.1	658.8
82.5°	31.4	35.4	52.7	84.1	142.8	132.3	119.1	492.3	494.7	411.5	144.4
85°	6.0	7.2	26.1	57.5	73.6	57.5	48.7	115.4	117.8	104.2	35.8
87.5°	0.0	0.4	10.5	12.9	14.5	14.9	15.7	22.5	24.1	32.6	9.7
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°	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7
2.5°	968.1	953.6	925.9	893.7	868.8	844.2	824.9	804.8	797.6	794.0	793.6
5°	977.8	947.2	888.5	828.1	778.7	732.0	698.6	666.9	652.0	645.1	642.3
7.5°	993.9	944.8	850.3	758.2	687.0	628.6	582.4	547.8	530.5	523.3	520.5
10°	1012.8	941.6	805.6	684.2	593.3	532.9	487.1	452.9	434.0	425.9	421.9
12.5°	1034.9	935.9	754.1	609.3	513.2	452.9	397.4	355.1	333.4	324.2	319.8
15°	1062.2	930.3	700.2	539.0	442.8	369.2	308.5	279.9	275.5	273.9	274.3
17.5°	1089.2	921.5	641.5	469.4	368.8	288.4	257.4	255.8	256.6	256.6	256.6
20°	1113.3	901.3	577.6	409.8	298.4	243.3	236.9	234.1	232.1	230.5	228.5
22.5°	1132.2	874.4	516.0	350.7	243.7	222.8	212.8	203.9	196.7	191.9	189.4
25°	1145.1	838.6	459.7	294.0	219.2	202.7	184.6	169.7	158.5	151.6	148.8
27.5°	1154.7	800.0	409.4	246.2	202.3	179.4	155.7	138.0	126.3	120.3	117.8
30°	1161.6	756.1	365.2	216.4	183.4	154.8	129.5	112.2	103.8	100.6	98.9
32.5°	1168.0	707.5	323.4	202.3	165.7	132.3	108.6	95.3	90.1	86.1	84.9
35°	1184.1	662.4	283.6	187.4	147.6	113.0	93.3	83.7	78.4	76.0	75.2
37.5°	1222.3	629.1	245.3	172.1	129.5	97.7	81.6	74.8	70.0	67.6	66.8
40°	1283.8	612.2	213.2	155.7	111.8	86.1	74.0	67.6	62.3	58.7	57.9
42.5°	1374.3	614.6	190.6	139.2	97.7	76.8	66.8	59.1	53.5	50.3	49.5
45°	1484.1	632.3	175.0	123.1	86.1	69.6	58.7	50.7	45.4	42.6	41.8
47.5°	1603.2	660.8	162.1	108.6	76.8	62.7	50.7	42.2	37.8	35.4	35.0
50°	1728.7	688.6	148.8	94.5	68.8	55.9	42.6	35.0	31.4	29.4	28.6
52.5°	1855.8	720.8	136.8	81.6	61.9	47.9	35.4	28.6	25.7	24.1	23.3
55°	1992.5	744.9	125.1	71.6	55.1	40.6	29.4	23.7	21.3	19.3	18.9
57.5°	2153.4	782.3	113.0	61.9	47.1	33.8	24.1	18.9	16.9	14.9	14.5
60°	2370.6	826.1	100.1	54.7	38.6	27.8	19.7	15.3	12.9	11.3	10.9
62.5°	2657.0	874.8	84.1	47.9	31.4	22.5	15.7	12.1	9.3	7.2	7.2
65°	3020.2	954.0	68.8	40.2	25.7	18.5	12.1	8.8	5.2	3.2	3.2
67.5°	3232.1	967.7	55.5	33.0	20.9	15.7	10.1	6.0	1.6	0.4	0.0
69°	3164.2	888.5	47.1	28.2	18.1	14.9	9.3	4.4	0.8	0.0	0.0
70°	3036.3	812.5	41.4	24.9	16.5	14.1	8.8	3.2	0.8	0.0	0.0
72.5°	2509.0	578.4	31.4	18.5	12.1	12.5	8.0	2.0	0.8	0.0	0.0
75°	1827.6	351.5	22.5	12.9	7.6	9.3	5.6	0.8	0.4	0.0	0.0
77.5°	1016.8	165.7	14.1	7.2	4.8	5.6	2.8	0.0	0.0	0.0	0.0
80°	330.2	45.0	6.4	4.0	2.8	3.2	1.2	0.0	0.0	0.0	0.0
82.5°	61.1	12.9	3.6	2.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0
85°	13.3	5.2	2.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	1.6	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)