

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P322226

Luminaire Tested: **GAN-SA2A-740-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322226  
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 (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2A-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 615mA 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: 6949 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

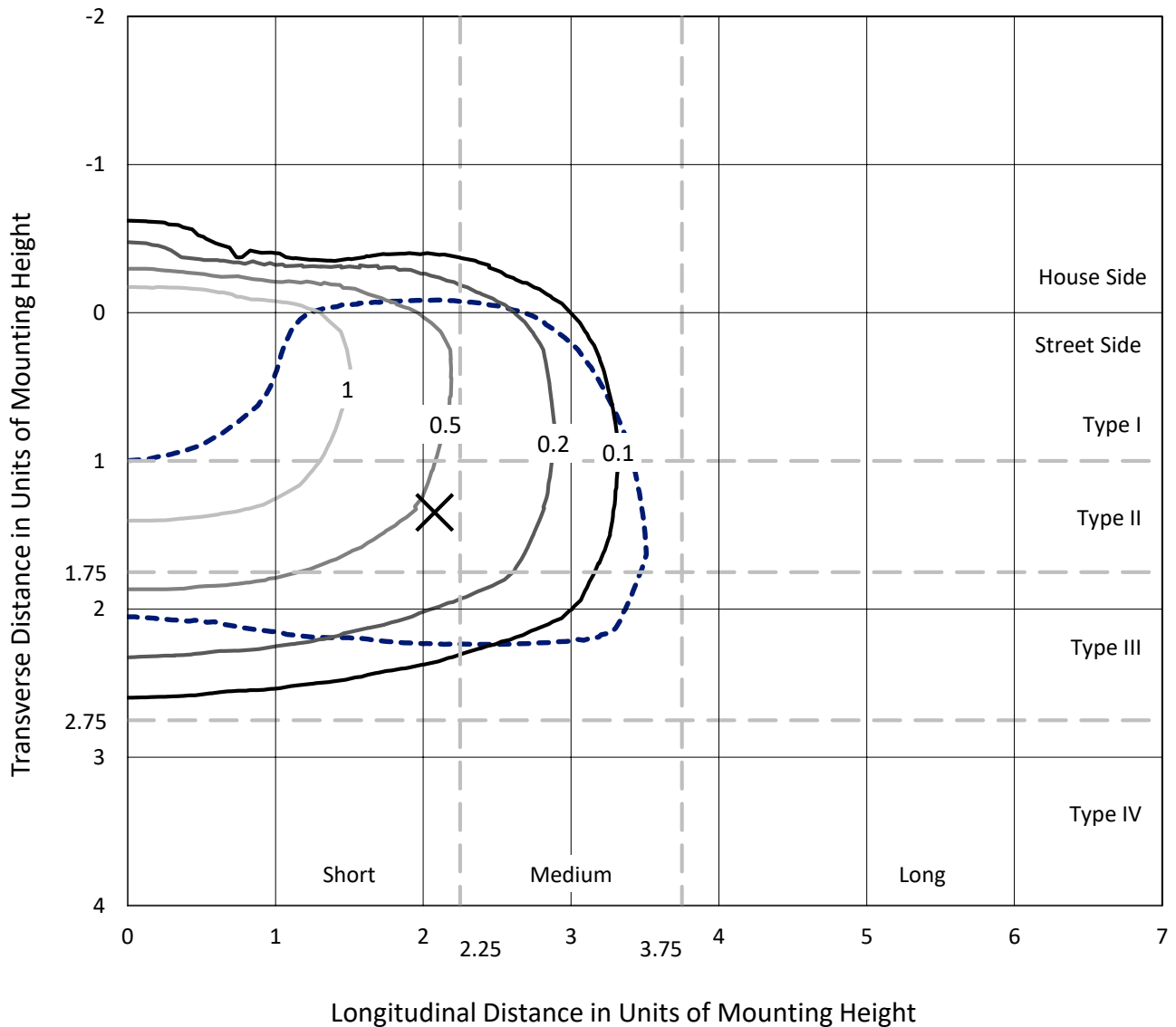
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

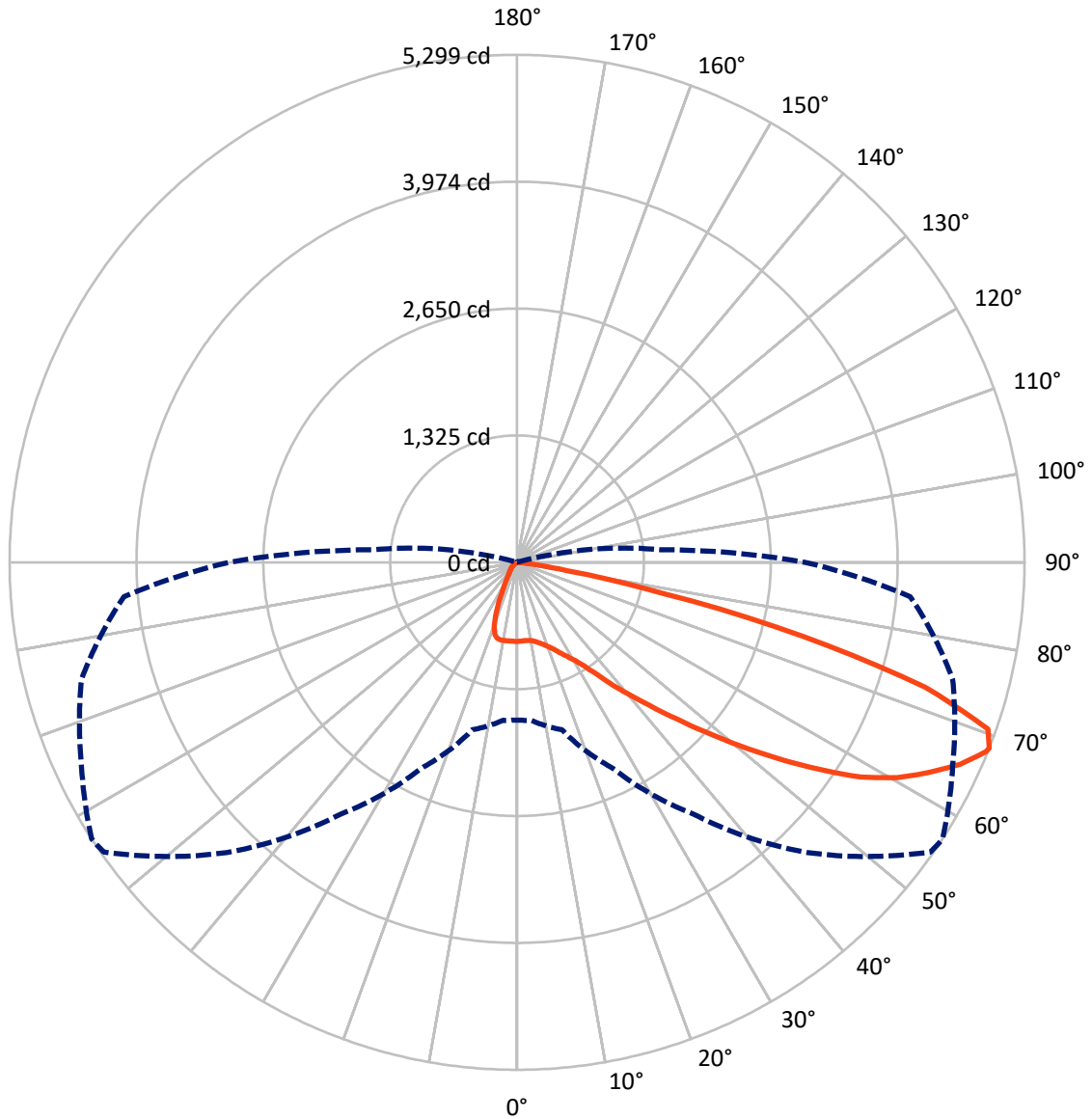
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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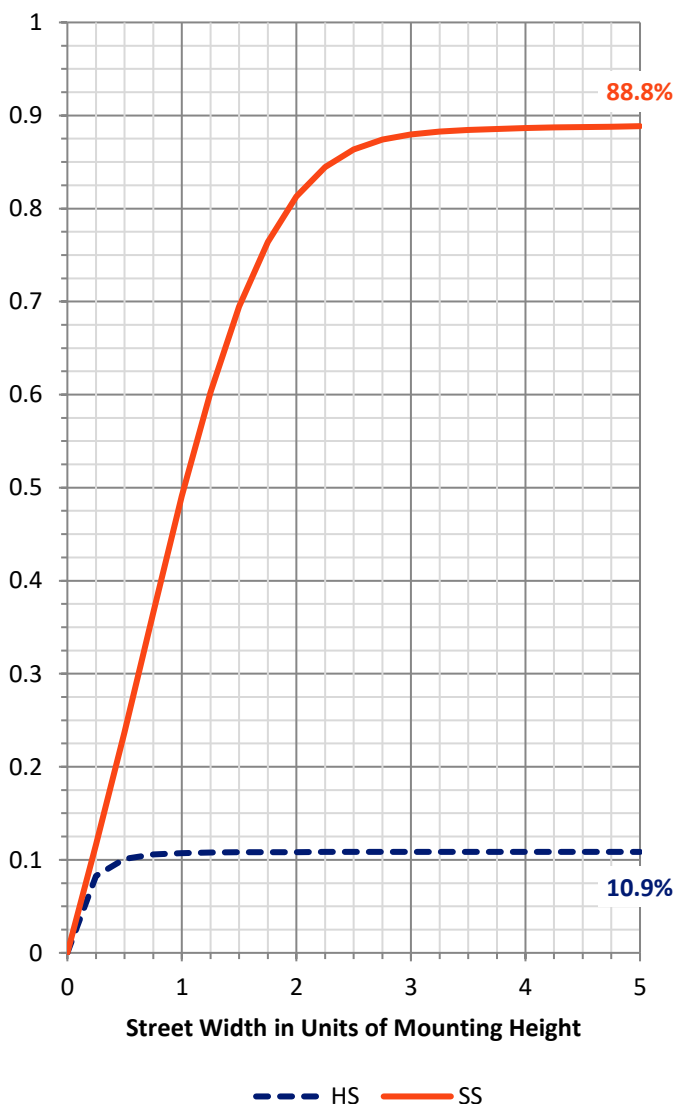
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	762.0	0.0	762.0
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	6187.0	0.0	6187.0
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	6949.0	0.0	6949.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.3	1.1
10°-20°	214.1	3.1
20°-30°	369.4	5.3
30°-40°	637.6	9.2
40°-50°	1090.6	15.7
50°-60°	1744.8	25.1
60°-70°	2016.0	29.0
70°-80°	770.3	11.1
80°-90°	28.9	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°	6949.0	100.0
0°-180°	6949.0	100.0

**Coefficient of Utilization**

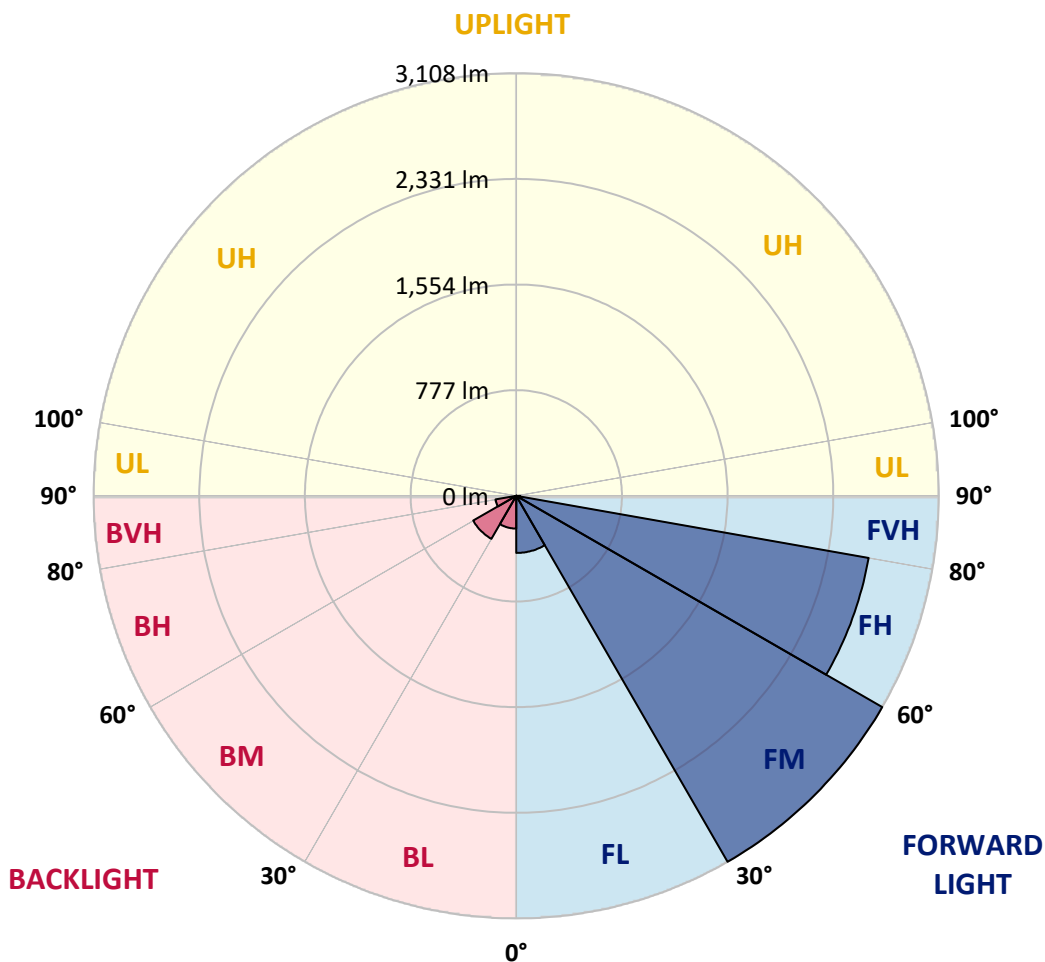


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.0	6.0			
FM (30°-60°)	3107.5	44.7			
FH (60°-80°)	2631.1	37.9			G2/5000
FVH (80°-90°)	28.3	0.4			G1/100
BL (0°-30°)	240.8	3.5	B1/500		
BM (30°-60°)	365.5	5.3	B1/1000		
BH (60°-80°)	155.2	2.2	B1/500		G1/500
BVH (80°-90°)	0.5	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°	825.7	825.7	825.7	825.7	825.7	825.7	825.7	825.7	825.7	825.7	825.7
2.5°	806.3	810.0	812.6	814.2	816.2	820.5	821.8	823.8	824.7	824.7	827.0
5°	774.5	778.4	784.0	788.6	797.8	809.6	818.2	821.5	827.4	832.6	835.6
7.5°	744.9	749.5	756.1	766.9	782.7	801.7	819.5	824.1	835.6	846.8	852.3
10°	725.8	729.5	738.0	753.4	774.1	800.8	825.7	831.3	851.0	869.8	880.3
12.5°	719.3	722.5	731.4	748.8	774.5	805.7	840.2	848.4	877.3	904.6	919.4
15°	728.8	729.5	739.0	755.4	780.7	817.8	864.2	874.0	910.5	946.0	964.4
17.5°	765.6	762.6	767.6	774.8	794.8	833.9	889.5	904.3	952.9	994.6	1012.0
20°	857.6	857.6	846.4	826.7	827.0	858.9	923.6	940.4	999.9	1048.2	1063.9
22.5°	1015.0	1012.0	989.7	941.4	897.0	902.0	965.4	987.1	1056.4	1108.0	1113.2
25°	1204.2	1200.6	1166.1	1098.1	1021.2	971.6	1021.9	1046.9	1123.7	1169.4	1158.6
27.5°	1404.7	1401.7	1367.6	1283.1	1173.7	1082.7	1089.2	1112.9	1192.4	1237.4	1202.9
30°	1598.9	1599.9	1566.0	1479.3	1355.4	1224.3	1174.7	1188.5	1259.1	1304.8	1255.5
32.5°	1783.5	1784.9	1755.6	1658.7	1543.0	1388.9	1293.0	1289.4	1336.7	1381.7	1325.2
35°	1948.2	1951.4	1931.4	1856.2	1733.6	1572.3	1446.4	1437.9	1446.7	1497.7	1432.0
37.5°	2106.9	2108.8	2093.7	2030.3	1927.8	1773.7	1640.3	1628.1	1609.1	1648.2	1572.9
40°	2280.7	2275.8	2258.3	2200.8	2112.8	1996.1	1848.6	1827.6	1794.4	1829.2	1758.2
42.5°	2442.3	2436.8	2439.7	2374.7	2300.4	2224.8	2091.4	2055.3	2035.9	2076.0	1985.6
45°	2644.4	2641.5	2651.3	2594.8	2534.7	2479.8	2369.7	2330.3	2321.8	2368.7	2260.6
47.5°	2843.9	2851.1	2881.7	2857.7	2833.4	2785.1	2664.5	2646.7	2652.0	2708.8	2550.8
50°	3010.1	3018.7	3102.5	3130.1	3165.2	3137.0	3016.0	3005.2	3025.9	3077.2	2862.9
52.5°	3130.4	3147.8	3252.0	3379.1	3507.3	3526.3	3405.7	3395.9	3423.8	3431.7	3104.1
55°	3213.9	3229.3	3347.3	3579.9	3840.8	3922.9	3848.0	3809.9	3804.6	3726.8	3357.8
57.5°	3228.6	3227.0	3396.5	3709.7	4102.3	4314.3	4267.0	4229.5	4121.7	3999.5	3648.6
60°	3145.2	3154.7	3351.5	3754.7	4266.6	4610.3	4613.9	4565.3	4397.4	4264.7	3930.5
62.5°	2888.2	2927.0	3125.8	3636.7	4264.7	4729.6	4868.3	4831.1	4630.4	4481.8	4216.4
65°	2471.6	2485.4	2675.0	3232.6	3976.5	4679.7	5097.3	5083.5	4840.3	4692.8	4363.2
67.5°	1804.9	1775.0	1974.1	2545.5	3366.6	4388.5	5261.6	5279.0	5002.3	4736.2	4206.8
68°	1647.2	1656.0	1811.1	2375.6	3207.0	4285.7	5272.4	5299.0	5018.4	4707.9	4121.4
70°	981.8	998.9	1137.2	1635.7	2439.7	3703.8	5155.4	5216.2	4922.5	4416.5	3564.8
72.5°	250.7	271.1	401.9	732.1	1393.5	2609.6	4352.1	4454.9	4273.9	3582.8	2406.5
75°	103.2	108.4	143.6	241.2	519.2	1175.7	2868.5	3088.7	2962.8	2145.0	1087.6
77.5°	71.3	74.9	92.3	133.7	224.7	398.6	1406.3	1565.4	1410.3	732.1	237.2
80°	51.3	54.2	66.0	89.0	129.1	142.3	458.4	530.0	420.9	160.7	58.8
82.5°	30.6	32.9	49.3	63.4	78.5	68.0	114.0	129.5	121.9	79.8	26.3
85°	15.1	17.7	33.2	45.3	42.4	28.6	34.8	38.8	48.0	48.6	14.1
87.5°	1.0	2.0	19.4	27.3	11.8	6.6	10.2	12.5	17.1	24.0	5.9
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°	825.7	825.7	825.7	825.7	825.7	825.7	825.7	825.7	825.7	825.7	825.7
2.5°	828.0	828.4	826.1	825.1	825.7	821.8	820.1	820.8	820.8	821.8	820.1
5°	836.2	836.2	832.3	827.0	824.1	816.5	811.6	810.3	809.3	808.6	807.3
7.5°	854.0	852.0	845.1	833.6	823.8	807.3	794.8	788.3	785.0	783.7	782.7
10°	882.6	879.0	867.5	846.1	823.4	794.2	766.9	747.5	731.4	724.8	720.9
12.5°	921.0	915.8	896.4	860.9	821.1	767.2	708.1	651.2	598.3	576.7	565.8
15°	965.4	957.8	927.3	873.4	807.7	706.4	578.0	478.4	405.1	377.5	365.7
17.5°	1010.4	1000.5	954.2	881.3	767.2	580.6	405.5	306.2	257.3	244.1	239.5
20°	1055.7	1041.3	977.5	875.3	675.9	418.6	267.5	223.8	209.6	205.7	204.4
22.5°	1098.8	1076.4	998.6	852.3	535.3	280.9	211.6	197.8	193.2	190.9	190.2
25°	1136.2	1105.0	1017.0	781.4	378.9	212.3	190.6	186.0	180.1	175.8	176.1
27.5°	1171.4	1133.6	1028.1	664.4	252.7	181.4	176.4	170.2	159.4	153.1	153.1
30°	1213.8	1171.7	1036.3	511.3	186.0	160.3	156.4	146.9	132.1	123.9	123.9
32.5°	1277.5	1229.6	1031.1	358.8	154.1	141.0	131.8	118.6	102.5	94.6	94.3
35°	1375.1	1318.9	993.6	235.3	136.0	122.6	107.8	91.7	77.5	71.0	70.6
37.5°	1506.5	1438.5	909.5	168.2	121.9	105.5	87.7	70.0	59.5	55.2	54.9
40°	1677.1	1577.5	789.3	136.4	108.8	89.0	67.7	54.2	47.0	43.7	44.0
42.5°	1881.8	1726.4	645.0	117.6	95.9	73.3	52.9	42.7	38.1	35.8	35.2
45°	2109.2	1873.2	493.9	104.8	83.1	59.1	41.4	33.8	30.2	28.9	28.9
47.5°	2359.2	2016.2	361.4	93.6	69.3	45.7	33.2	27.6	24.6	23.7	23.3
50°	2586.3	2115.4	260.6	81.8	56.8	36.1	26.9	23.0	21.0	19.7	19.7
52.5°	2775.5	2146.6	191.9	69.0	46.0	28.9	22.3	19.7	17.7	16.8	16.8
55°	2942.1	2133.8	142.6	56.8	37.1	23.7	19.1	16.8	15.1	14.1	14.1
57.5°	3101.8	2092.4	106.5	46.3	29.9	19.1	16.1	14.1	12.5	11.8	11.8
60°	3232.3	2023.4	79.2	37.5	24.0	15.4	13.5	11.5	10.2	9.2	9.2
62.5°	3338.1	1947.2	58.2	30.9	19.1	12.2	10.5	9.5	7.6	6.6	6.6
65°	3338.7	1820.7	43.7	25.6	14.8	9.5	7.9	7.6	4.9	3.9	3.6
67.5°	3097.2	1569.6	33.5	22.0	11.5	7.2	5.9	6.2	2.6	1.6	1.3
68°	3009.5	1505.9	31.5	21.7	10.8	6.9	5.6	6.2	2.3	1.3	1.0
70°	2537.3	1198.0	25.3	21.0	9.5	5.3	4.6	6.2	2.0	1.0	0.7
72.5°	1622.9	695.3	18.7	16.8	7.2	3.9	3.0	5.6	2.0	0.7	0.3
75°	690.7	215.5	12.8	11.8	4.3	3.0	2.0	3.6	1.3	0.3	0.0
77.5°	145.6	48.6	7.6	7.2	3.0	2.0	1.3	1.0	0.3	0.0	0.0
80°	37.5	14.1	3.9	3.6	1.6	1.0	0.7	0.0	0.0	0.0	0.0
82.5°	11.8	5.6	2.3	1.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.9	3.3	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	1.0	0.3	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)