

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: P321565

Luminaire Tested: **GAN-SA1C-730-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321565  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1C-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5187 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

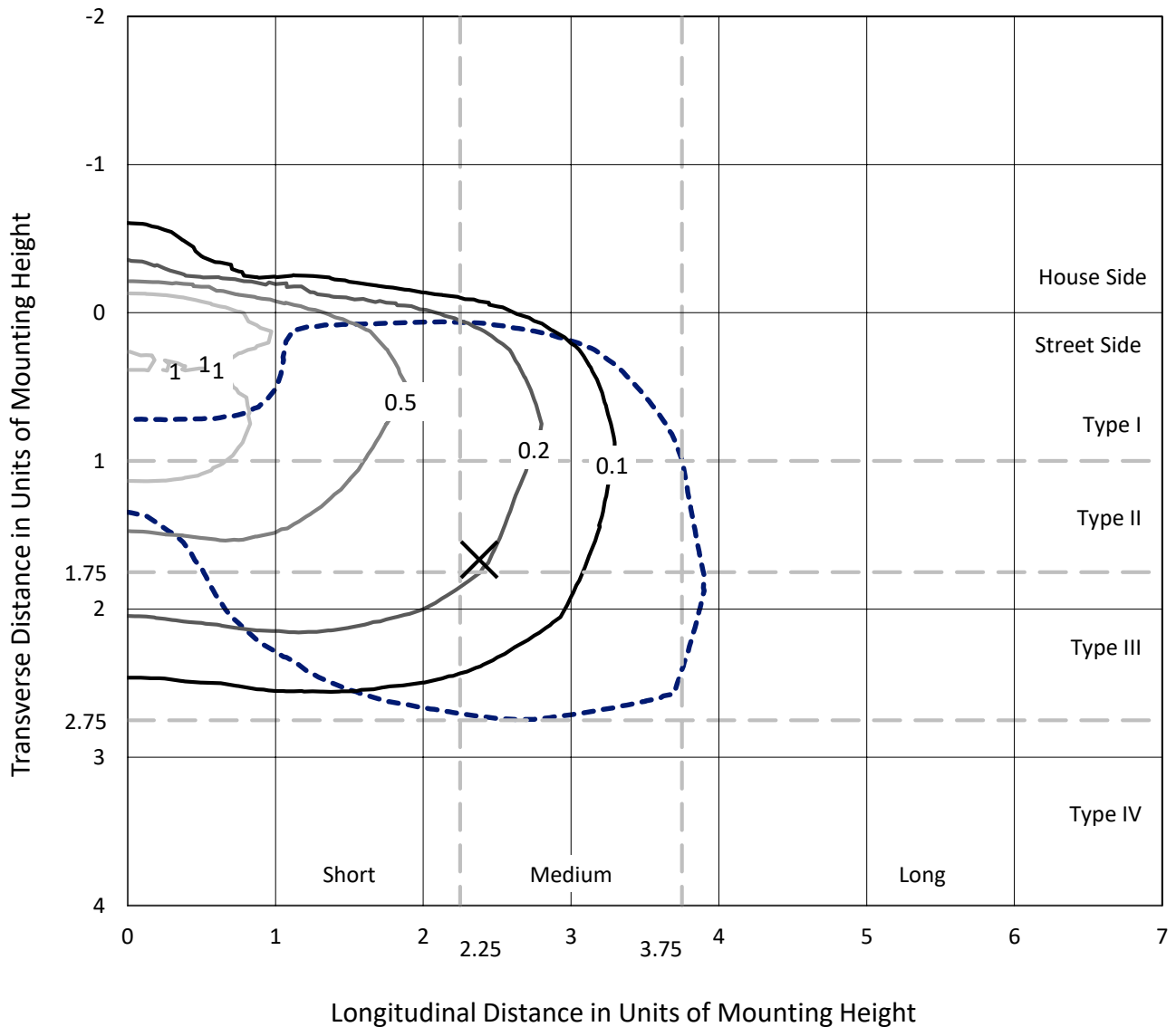
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

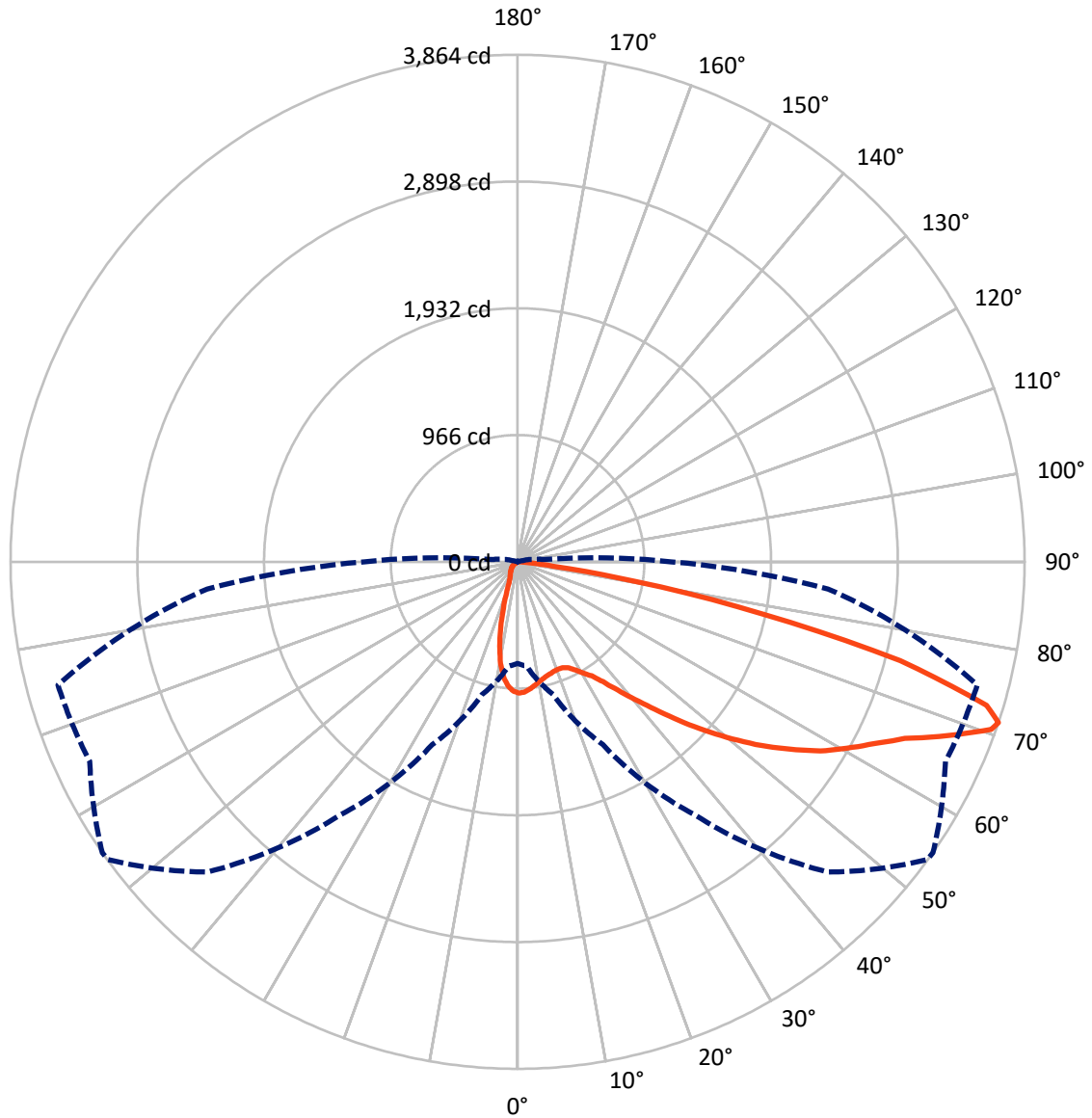
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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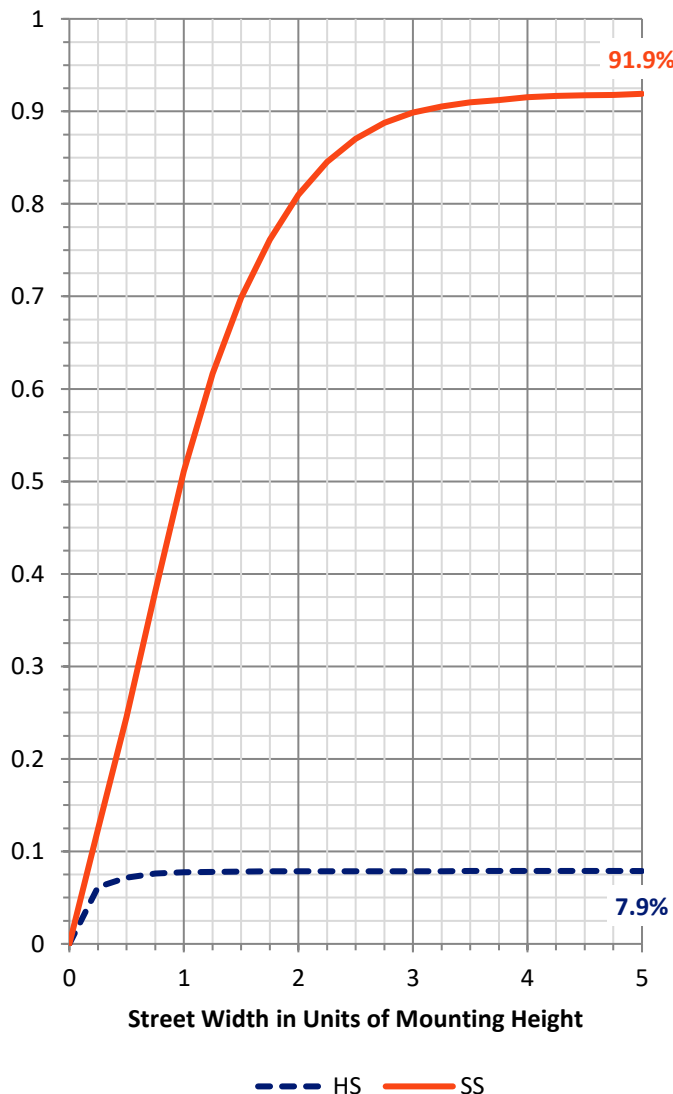
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	410.7	0.0	410.7
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	4776.3	0.0	4776.3
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	5187.0	0.0	5187.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.3	1.6
10°-20°	192.6	3.7
20°-30°	309.4	6.0
30°-40°	525.8	10.1
40°-50°	816.0	15.7
50°-60°	1097.1	21.2
60°-70°	1342.2	25.9
70°-80°	784.7	15.1
80°-90°	33.9	0.7
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°	5187.0	100.0
0°-180°	5187.0	100.0

**Coefficient of Utilization**

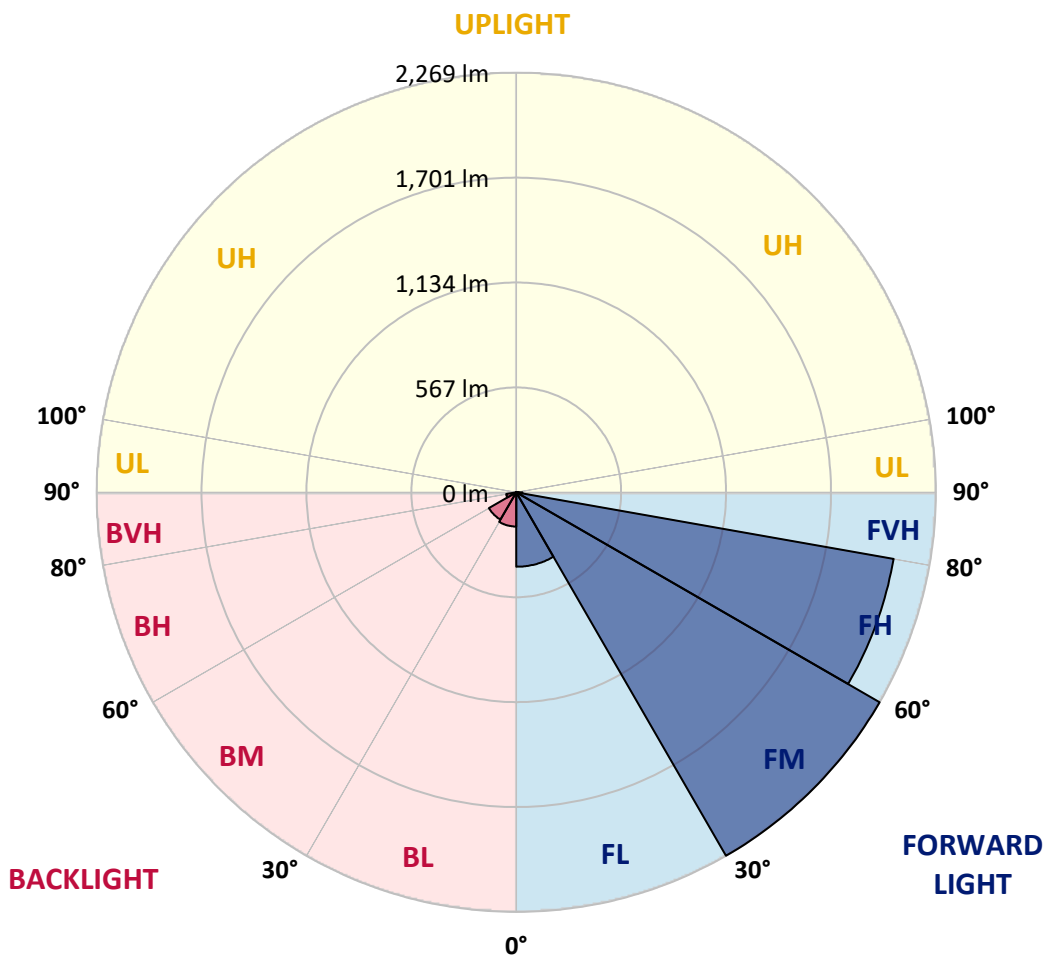


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	402.4	7.8			
FM (30°-60°)	2268.6	43.7			
FH (60°-80°)	2071.9	39.9			G2/5000
FVH (80°-90°)	33.4	0.6			G1/100
BL (0°-30°)	184.8	3.6	B1/500		
BM (30°-60°)	170.3	3.3	B0/220		
BH (60°-80°)	55.0	1.1	B0/110		G0/110
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3
2.5°	971.0	972.1	976.3	978.2	982.6	990.1	993.8	994.0	1000.1	1002.4	1004.3
5°	902.3	909.3	916.3	923.7	937.2	955.1	972.8	974.5	994.0	1008.5	1016.2
7.5°	843.1	849.4	857.8	869.7	888.8	917.0	946.5	950.0	987.1	1019.9	1037.1
10°	782.3	787.5	799.6	817.0	843.4	881.1	920.9	926.7	980.8	1035.3	1065.5
12.5°	717.4	720.4	735.1	760.2	798.9	846.8	899.3	906.9	976.8	1053.0	1099.1
15°	668.0	669.4	683.3	709.4	753.7	816.1	882.5	891.8	977.7	1074.2	1135.6
17.5°	655.4	656.1	663.5	681.5	720.6	788.6	869.2	880.6	980.5	1094.9	1172.4
20°	706.4	701.5	693.8	691.0	707.8	772.1	861.3	874.1	984.3	1113.3	1205.5
22.5°	846.4	831.9	800.0	757.4	731.6	773.2	863.4	876.2	996.1	1135.9	1243.7
25°	1054.1	1034.1	979.8	896.0	815.4	806.8	880.9	893.9	1019.2	1162.9	1280.3
27.5°	1290.5	1270.7	1204.4	1084.6	947.2	873.2	920.9	933.0	1053.4	1186.9	1308.2
30°	1516.9	1511.3	1433.1	1297.1	1113.1	980.8	972.6	982.9	1078.8	1201.3	1330.4
32.5°	1708.8	1700.0	1637.1	1504.8	1302.9	1110.0	1033.4	1036.4	1097.9	1220.0	1359.2
35°	1886.8	1875.8	1820.6	1695.6	1497.6	1267.9	1127.0	1122.6	1139.6	1257.5	1401.2
37.5°	2042.1	2052.1	1990.9	1871.9	1672.3	1432.1	1253.3	1240.0	1204.8	1318.5	1462.0
40°	2172.1	2172.1	2140.2	2041.0	1860.9	1601.9	1396.0	1378.6	1302.9	1412.6	1539.0
42.5°	2218.9	2228.9	2240.8	2184.7	2029.8	1778.5	1555.1	1536.9	1441.0	1546.0	1636.4
45°	2221.7	2237.5	2298.3	2298.1	2182.3	1953.8	1734.5	1725.8	1618.0	1717.4	1757.0
47.5°	2182.3	2202.1	2302.3	2359.1	2303.2	2117.1	1930.6	1919.8	1826.0	1927.5	1883.3
50°	2121.5	2143.4	2259.9	2383.1	2385.4	2259.2	2137.1	2121.1	2054.9	2167.7	2013.7
52.5°	2012.8	2055.2	2221.9	2388.7	2439.5	2381.9	2333.7	2326.7	2311.1	2398.9	2117.6
55°	1780.1	1827.1	2126.7	2390.5	2489.5	2490.7	2517.9	2519.8	2551.3	2615.1	2194.9
57.5°	1670.2	1696.7	1960.4	2399.4	2563.8	2614.1	2705.7	2720.1	2768.8	2820.3	2283.2
60°	1601.0	1632.4	1878.4	2387.3	2680.5	2776.0	2879.7	2884.5	2936.7	3032.0	2402.7
62.5°	1545.8	1576.8	1826.7	2340.7	2811.6	2970.7	3049.7	3050.1	3089.3	3284.2	2538.4
65°	1409.5	1435.6	1722.1	2288.3	2898.3	3163.3	3247.2	3244.1	3276.1	3550.2	2696.1
67.5°	1212.5	1232.5	1508.5	2089.6	2865.7	3338.5	3545.3	3535.3	3496.6	3780.1	2758.1
70°	937.4	944.7	1189.0	1741.4	2560.1	3405.8	3833.4	3828.3	3631.9	3738.8	2531.0
71°	774.9	798.6	1047.8	1536.9	2355.4	3343.6	3861.3	3864.4	3597.9	3626.6	2374.7
72.5°	450.0	470.2	759.5	1180.4	1999.7	3084.1	3716.5	3738.4	3439.1	3298.6	2028.4
75°	96.4	103.2	281.6	571.3	1100.0	2161.6	2933.5	3011.5	2803.0	2244.0	1222.5
77.5°	67.1	72.4	120.6	259.2	363.6	1068.1	1822.3	1910.3	1674.6	843.4	391.3
80°	53.1	59.2	94.1	128.1	98.3	344.5	853.6	907.4	558.5	188.2	65.9
82.5°	29.6	35.2	73.4	69.2	37.7	65.4	239.0	270.2	111.8	38.0	15.6
85°	8.6	10.5	47.3	50.3	16.1	12.6	40.8	50.5	21.2	10.0	7.0
87.5°	0.0	0.0	22.8	19.3	4.7	1.9	3.7	4.2	4.2	4.2	4.7
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°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3
2.5°	1004.3	1005.9	1000.1	992.4	984.3	974.2	963.8	955.6	955.4	951.4	947.5
5°	1016.6	1015.7	999.6	975.2	946.3	916.3	887.6	855.2	844.5	831.2	826.8
7.5°	1039.5	1032.9	998.9	945.4	882.0	819.1	754.1	688.7	660.8	635.6	631.2
10°	1068.1	1055.8	994.5	900.6	784.4	668.4	570.4	481.4	442.3	412.2	410.8
12.5°	1097.9	1079.1	982.2	833.1	656.6	493.5	380.6	293.0	260.4	239.4	241.3
15°	1129.1	1100.9	955.6	742.0	511.0	334.9	233.8	182.4	169.3	164.0	165.4
17.5°	1161.0	1116.1	918.6	632.3	367.3	216.1	161.9	147.4	147.4	148.6	149.1
20°	1188.8	1124.2	864.1	509.4	249.0	157.4	141.6	139.5	140.7	142.5	142.8
22.5°	1216.2	1124.7	793.0	384.8	174.2	137.9	134.9	133.9	134.6	136.7	136.9
25°	1238.6	1119.1	704.1	273.7	139.0	130.0	128.6	128.1	128.6	131.1	131.1
27.5°	1247.7	1098.9	595.5	192.4	124.6	121.1	120.6	121.1	121.8	123.7	123.9
30°	1248.6	1063.4	477.2	139.3	113.0	109.2	110.2	111.8	111.1	110.6	111.1
32.5°	1250.9	1022.5	361.9	114.6	103.2	97.4	96.2	96.2	93.4	91.8	90.8
35°	1258.6	974.2	262.5	102.9	93.2	86.4	82.0	76.9	71.5	68.7	68.0
37.5°	1270.7	923.7	188.0	95.3	84.3	76.6	68.2	59.2	51.5	49.4	49.4
40°	1292.9	871.5	139.0	89.2	77.3	67.8	55.2	43.3	36.3	35.2	35.2
42.5°	1327.8	816.6	110.9	83.8	71.3	58.7	42.2	31.4	26.3	25.6	25.4
45°	1364.1	756.0	96.9	78.7	64.7	48.2	31.2	23.3	20.3	19.6	19.6
47.5°	1400.5	691.5	90.1	73.8	58.5	37.5	23.3	18.4	17.0	17.0	17.2
50°	1431.2	624.2	85.2	68.5	50.3	28.4	18.4	15.6	15.1	16.1	16.3
52.5°	1438.9	558.0	79.2	61.7	40.3	21.7	15.1	13.7	13.7	13.7	13.7
55°	1434.2	506.8	71.3	53.3	29.8	17.2	13.0	12.1	11.9	11.9	11.9
57.5°	1450.1	476.5	57.1	41.5	21.4	14.0	11.4	10.7	10.2	10.0	10.0
60°	1482.0	456.7	40.8	29.8	16.1	11.6	9.8	9.1	8.4	7.9	7.9
62.5°	1524.4	439.5	30.3	22.1	12.3	9.3	8.2	7.5	6.5	6.1	6.1
65°	1557.0	408.8	23.1	16.5	9.3	7.5	6.3	6.1	4.7	4.2	4.0
67.5°	1507.1	341.2	18.6	12.1	7.0	5.8	4.9	4.7	2.8	2.3	2.3
70°	1292.6	237.6	14.9	8.9	5.1	4.7	4.0	3.0	2.1	1.9	1.9
71°	1172.2	198.4	13.5	7.5	4.4	4.4	3.7	2.6	1.9	1.6	1.6
72.5°	973.8	140.9	11.4	5.8	4.0	4.7	4.0	2.3	1.9	1.6	1.4
75°	565.3	58.9	7.9	4.0	3.0	5.6	5.1	2.1	1.4	1.2	1.2
77.5°	170.0	21.7	4.4	2.6	2.3	4.9	5.8	1.9	0.7	0.2	0.2
80°	31.0	9.3	2.8	1.6	1.6	3.0	4.4	0.9	0.0	0.0	0.0
82.5°	10.9	4.7	1.6	0.9	0.7	1.4	2.1	0.0	0.0	0.0	0.0
85°	6.3	3.3	0.9	0.5	0.0	0.2	0.5	0.0	0.0	0.0	0.0
87.5°	4.2	0.9	0.0	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)