

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: P322215

Luminaire Tested: **GAN-SA1D-730-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322215  
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-SA1D-730-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5391 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

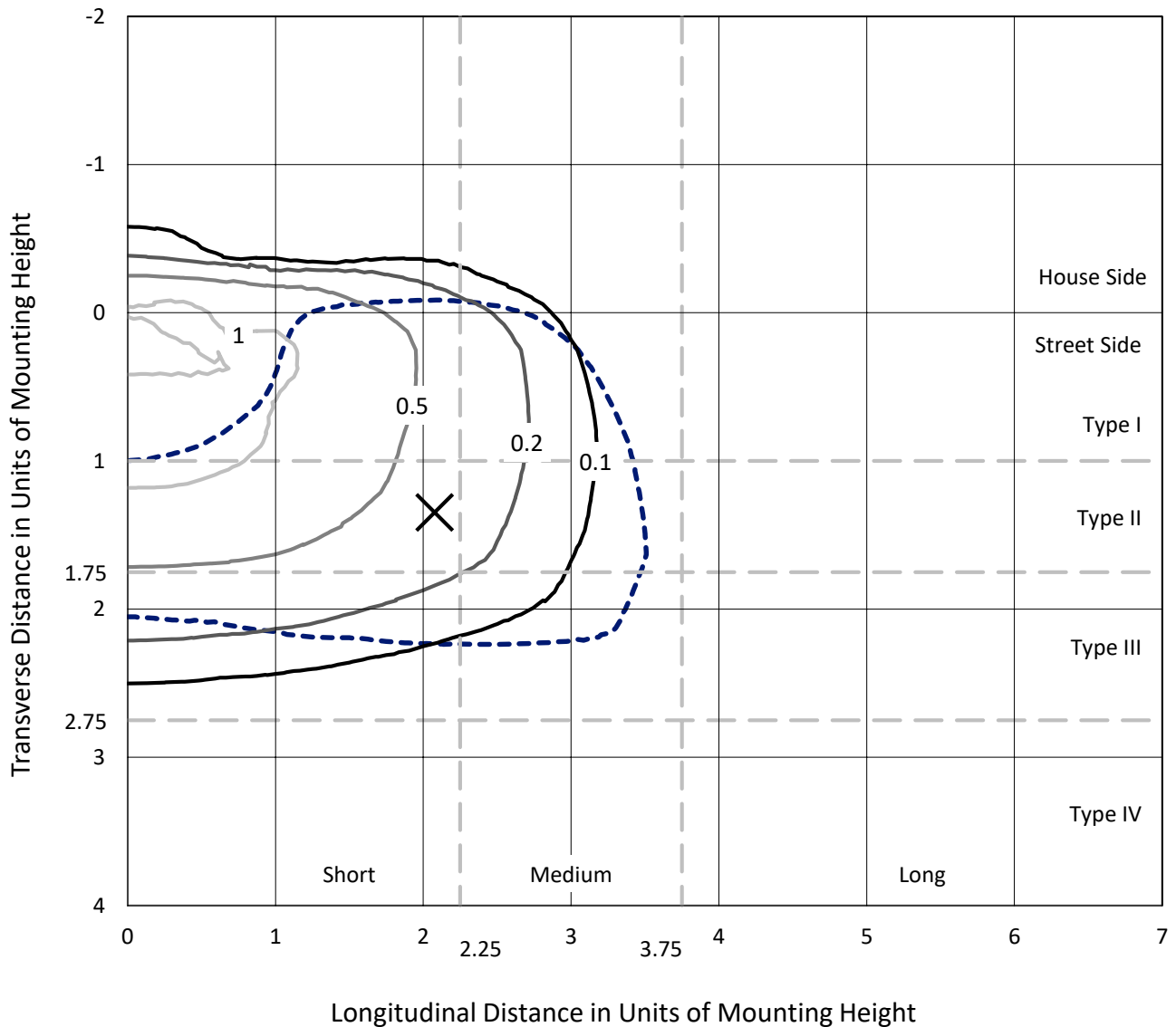
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

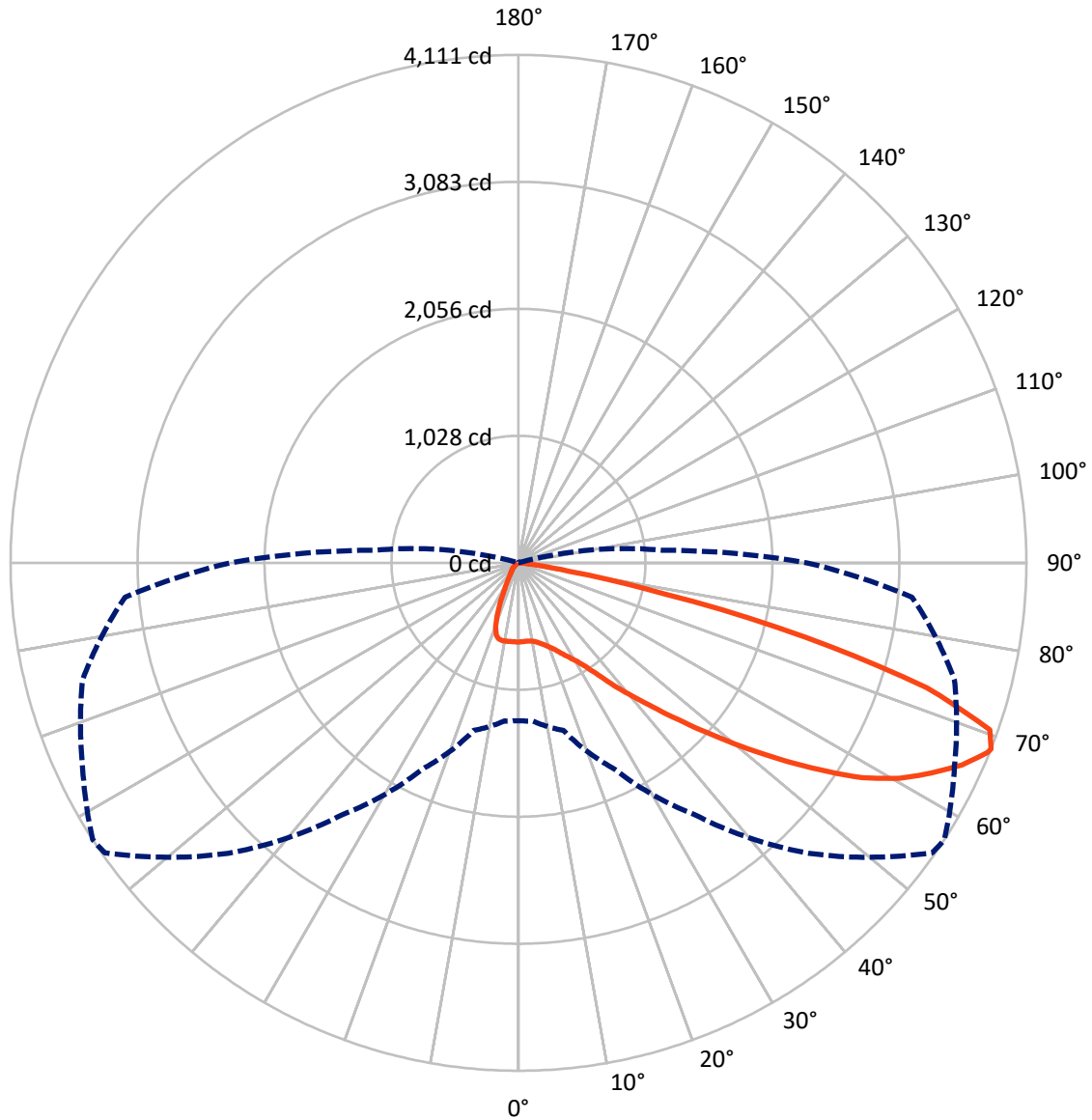
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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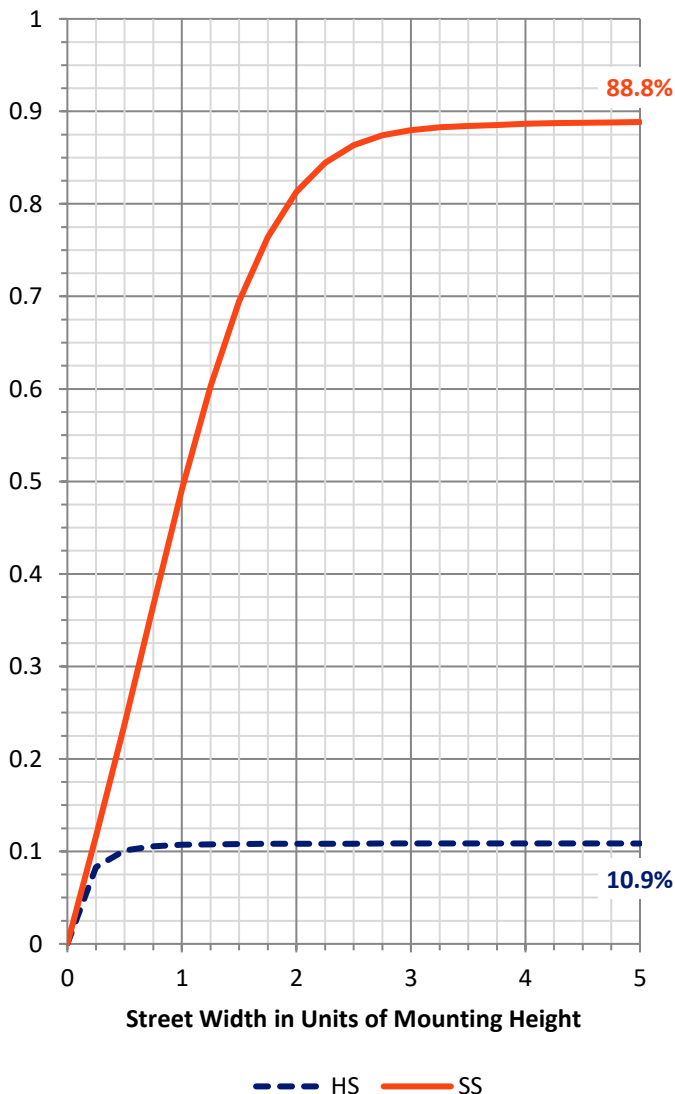
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	591.2	0.0	591.2
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	4799.8	0.0	4799.8
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	5391.0	0.0	5391.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.9	1.1
10°-20°	166.1	3.1
20°-30°	286.6	5.3
30°-40°	494.6	9.2
40°-50°	846.1	15.7
50°-60°	1353.6	25.1
60°-70°	1564.0	29.0
70°-80°	597.6	11.1
80°-90°	22.4	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°	5391.0	100.0
0°-180°	5391.0	100.0

**Coefficient of Utilization**



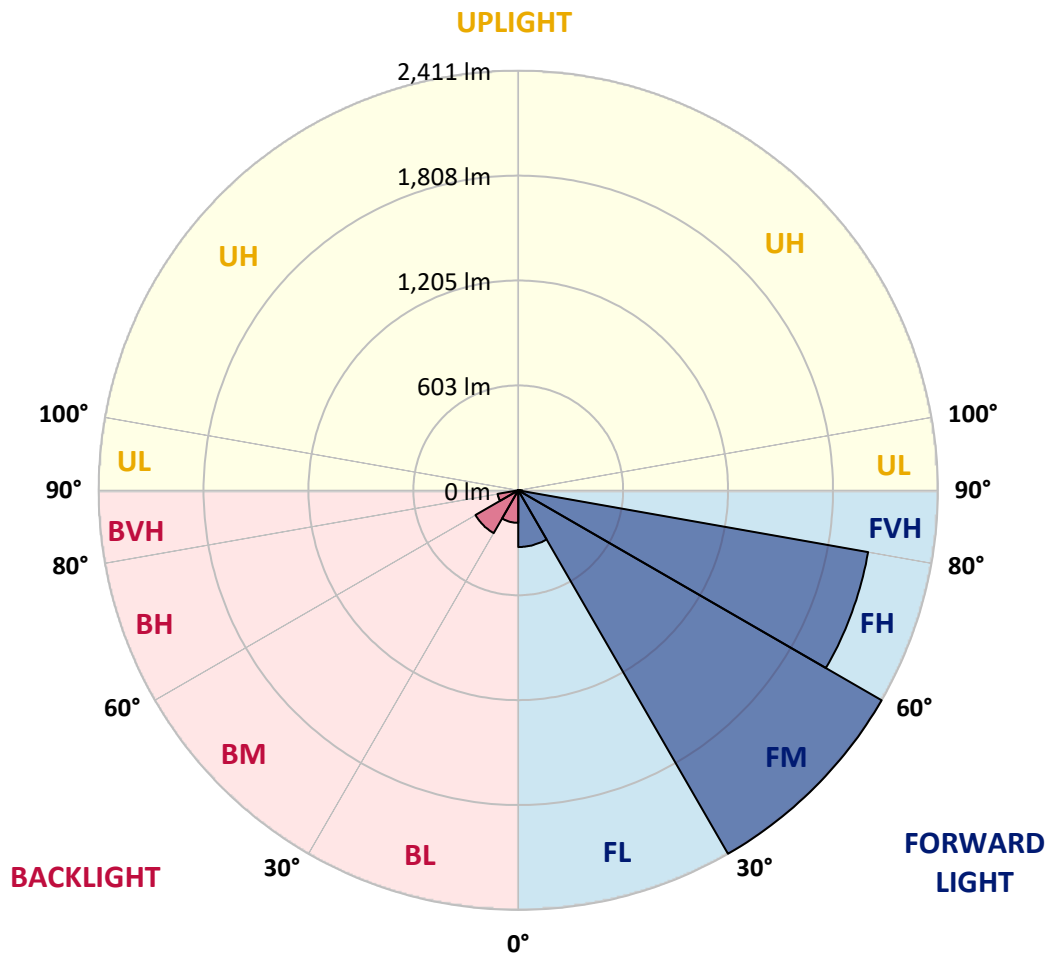
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	325.8	6.0			
FM (30°-60°)	2410.8	44.7			
FH (60°-80°)	2041.2	37.9			G2/5000
FVH (80°-90°)	22.0	0.4			G1/100
BL (0°-30°)	186.8	3.5	B1/500		
BM (30°-60°)	283.5	5.3	B1/1000		
BH (60°-80°)	120.4	2.2	B1/500		G1/500
BVH (80°-90°)	0.4	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°	640.6	640.6	640.6	640.6	640.6	640.6	640.6	640.6	640.6	640.6	640.6
2.5°	625.6	628.4	630.4	631.7	633.2	636.5	637.5	639.1	639.8	639.8	641.6
5°	600.8	603.9	608.2	611.8	618.9	628.1	634.7	637.3	641.9	645.9	648.2
7.5°	577.9	581.5	586.6	595.0	607.2	622.0	635.7	639.3	648.2	656.9	661.2
10°	563.1	565.9	572.5	584.5	600.6	621.2	640.6	644.9	660.2	674.8	682.9
12.5°	558.0	560.6	567.4	580.9	600.8	625.0	651.8	658.2	680.6	701.8	713.2
15°	565.4	565.9	573.3	586.0	605.7	634.5	670.4	678.1	706.4	733.9	748.2
17.5°	593.9	591.6	595.5	601.1	616.6	647.0	690.0	701.5	739.2	771.6	785.1
20°	665.3	665.3	656.7	641.4	641.6	666.3	716.6	729.6	775.7	813.2	825.4
22.5°	787.4	785.1	767.8	730.3	695.9	699.7	748.9	765.8	819.5	859.6	863.6
25°	934.3	931.4	904.7	851.9	792.3	753.8	792.8	812.1	871.8	907.2	898.8
27.5°	1089.7	1087.5	1060.9	995.4	910.5	839.9	845.0	863.4	925.1	960.0	933.2
30°	1240.4	1241.2	1214.9	1147.6	1051.5	949.8	911.3	922.0	976.8	1012.3	974.0
32.5°	1383.7	1384.7	1362.0	1286.8	1197.1	1077.5	1003.1	1000.3	1037.0	1071.9	1028.1
35°	1511.4	1513.9	1498.4	1440.0	1344.9	1219.8	1122.1	1115.5	1122.4	1161.9	1110.9
37.5°	1634.5	1636.0	1624.3	1575.1	1495.6	1376.0	1272.5	1263.1	1248.3	1278.6	1220.3
40°	1769.3	1765.5	1752.0	1707.4	1639.1	1548.6	1434.1	1417.8	1392.1	1419.1	1364.0
42.5°	1894.8	1890.4	1892.7	1842.2	1784.6	1726.0	1622.5	1594.5	1579.4	1610.5	1540.4
45°	2051.5	2049.2	2056.9	2013.0	1966.4	1923.8	1838.4	1807.8	1801.2	1837.7	1753.8
47.5°	2206.3	2211.9	2235.6	2217.0	2198.1	2160.6	2067.1	2053.3	2057.4	2101.5	1978.9
50°	2335.2	2341.9	2406.9	2428.3	2455.6	2433.6	2339.8	2331.4	2347.5	2387.2	2221.0
52.5°	2428.5	2442.1	2522.9	2621.5	2720.9	2735.7	2642.2	2634.5	2656.2	2662.3	2408.2
55°	2493.3	2505.3	2596.8	2777.3	2979.7	3043.4	2985.3	2955.7	2951.6	2891.2	2604.9
57.5°	2504.8	2503.5	2635.0	2878.0	3182.6	3347.0	3310.3	3281.2	3197.6	3102.8	2830.5
60°	2440.0	2447.4	2600.1	2912.9	3310.0	3576.7	3579.5	3541.7	3411.5	3308.5	3049.3
62.5°	2240.7	2270.8	2425.0	2821.4	3308.5	3669.2	3776.8	3748.0	3592.2	3477.0	3271.0
65°	1917.4	1928.2	2075.2	2507.8	3084.9	3630.5	3954.4	3943.7	3755.1	3640.6	3385.0
67.5°	1400.2	1377.0	1531.5	1974.8	2611.8	3404.6	4081.9	4095.4	3880.8	3674.3	3263.6
68°	1277.9	1284.8	1405.1	1843.0	2487.9	3324.8	4090.3	4111.0	3893.3	3652.4	3197.4
70°	761.7	774.9	882.2	1269.0	1892.7	2873.4	3999.6	4046.7	3818.8	3426.3	2765.5
72.5°	194.5	210.3	311.8	567.9	1081.1	2024.5	3376.3	3456.1	3315.6	2779.6	1867.0
75°	80.0	84.1	111.4	187.1	402.8	912.1	2225.4	2396.2	2298.5	1664.1	843.8
77.5°	55.3	58.1	71.6	103.7	174.4	309.2	1091.0	1214.4	1094.1	567.9	184.0
80°	39.8	42.1	51.2	69.1	100.2	110.4	355.6	411.2	326.5	124.7	45.6
82.5°	23.7	25.5	38.2	49.2	60.9	52.8	88.5	100.4	94.6	61.9	20.4
85°	11.7	13.8	25.7	35.2	32.9	22.2	27.0	30.1	37.2	37.7	11.0
87.5°	0.8	1.5	15.0	21.2	9.2	5.1	7.9	9.7	13.3	18.6	4.6
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°	640.6	640.6	640.6	640.6	640.6	640.6	640.6	640.6	640.6	640.6	640.6
2.5°	642.4	642.6	640.8	640.1	640.6	637.5	636.3	636.8	636.8	637.5	636.3
5°	648.8	648.8	645.7	641.6	639.3	633.5	629.6	628.6	627.8	627.3	626.3
7.5°	662.5	661.0	655.6	646.7	639.1	626.3	616.6	611.5	609.0	608.0	607.2
10°	684.7	681.9	673.0	656.4	638.8	616.1	595.0	579.9	567.4	562.3	559.3
12.5°	714.5	710.4	695.4	667.9	637.0	595.2	549.3	505.2	464.2	447.4	439.0
15°	748.9	743.1	719.4	677.6	626.6	548.1	448.4	371.2	314.3	292.9	283.7
17.5°	783.9	776.2	740.3	683.7	595.2	450.4	314.6	237.6	199.6	189.4	185.8
20°	819.0	807.8	758.4	679.1	524.4	324.8	207.5	173.6	162.6	159.6	158.6
22.5°	852.4	835.1	774.7	661.2	415.3	217.9	164.2	153.5	149.9	148.1	147.6
25°	881.5	857.3	789.0	606.2	293.9	164.7	147.8	144.3	139.7	136.4	136.6
27.5°	908.8	879.4	797.6	515.4	196.0	140.7	136.9	132.0	123.6	118.8	118.8
30°	941.6	909.0	804.0	396.6	144.3	124.4	121.3	113.9	102.5	96.1	96.1
32.5°	991.1	953.9	799.9	278.4	119.6	109.4	102.2	92.0	79.5	73.4	73.2
35°	1066.8	1023.2	770.9	182.5	105.5	95.1	83.6	71.1	60.2	55.1	54.8
37.5°	1168.8	1116.0	705.6	130.5	94.6	81.8	68.1	54.3	46.1	42.8	42.6
40°	1301.1	1223.8	612.3	105.8	84.4	69.1	52.5	42.1	36.5	33.9	34.2
42.5°	1459.9	1339.3	500.4	91.3	74.4	56.8	41.0	33.1	29.6	27.8	27.3
45°	1636.3	1453.3	383.1	81.3	64.5	45.9	32.1	26.3	23.5	22.4	22.4
47.5°	1830.3	1564.1	280.4	72.6	53.8	35.4	25.7	21.4	19.1	18.4	18.1
50°	2006.4	1641.1	202.1	63.5	44.1	28.0	20.9	17.8	16.3	15.3	15.3
52.5°	2153.2	1665.3	148.9	53.5	35.7	22.4	17.3	15.3	13.8	13.0	13.0
55°	2282.5	1655.4	110.6	44.1	28.8	18.4	14.8	13.0	11.7	11.0	11.0
57.5°	2406.4	1623.3	82.6	35.9	23.2	14.8	12.5	11.0	9.7	9.2	9.2
60°	2507.6	1569.7	61.4	29.1	18.6	12.0	10.5	8.9	7.9	7.1	7.1
62.5°	2589.6	1510.6	45.1	24.0	14.8	9.4	8.2	7.4	5.9	5.1	5.1
65°	2590.2	1412.5	33.9	19.9	11.5	7.4	6.1	5.9	3.8	3.1	2.8
67.5°	2402.8	1217.7	26.0	17.1	8.9	5.6	4.6	4.8	2.0	1.3	1.0
68°	2334.7	1168.3	24.5	16.8	8.4	5.4	4.3	4.8	1.8	1.0	0.8
70°	1968.4	929.4	19.6	16.3	7.4	4.1	3.6	4.8	1.5	0.8	0.5
72.5°	1259.0	539.4	14.5	13.0	5.6	3.1	2.3	4.3	1.5	0.5	0.3
75°	535.8	167.2	9.9	9.2	3.3	2.3	1.5	2.8	1.0	0.3	0.0
77.5°	112.9	37.7	5.9	5.6	2.3	1.5	1.0	0.8	0.3	0.0	0.0
80°	29.1	11.0	3.1	2.8	1.3	0.8	0.5	0.0	0.0	0.0	0.0
82.5°	9.2	4.3	1.8	1.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	2.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	0.8	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)