

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: P321915

Luminaire Tested: **GAN-SA1B-740-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321915  
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 (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1B-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4256 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

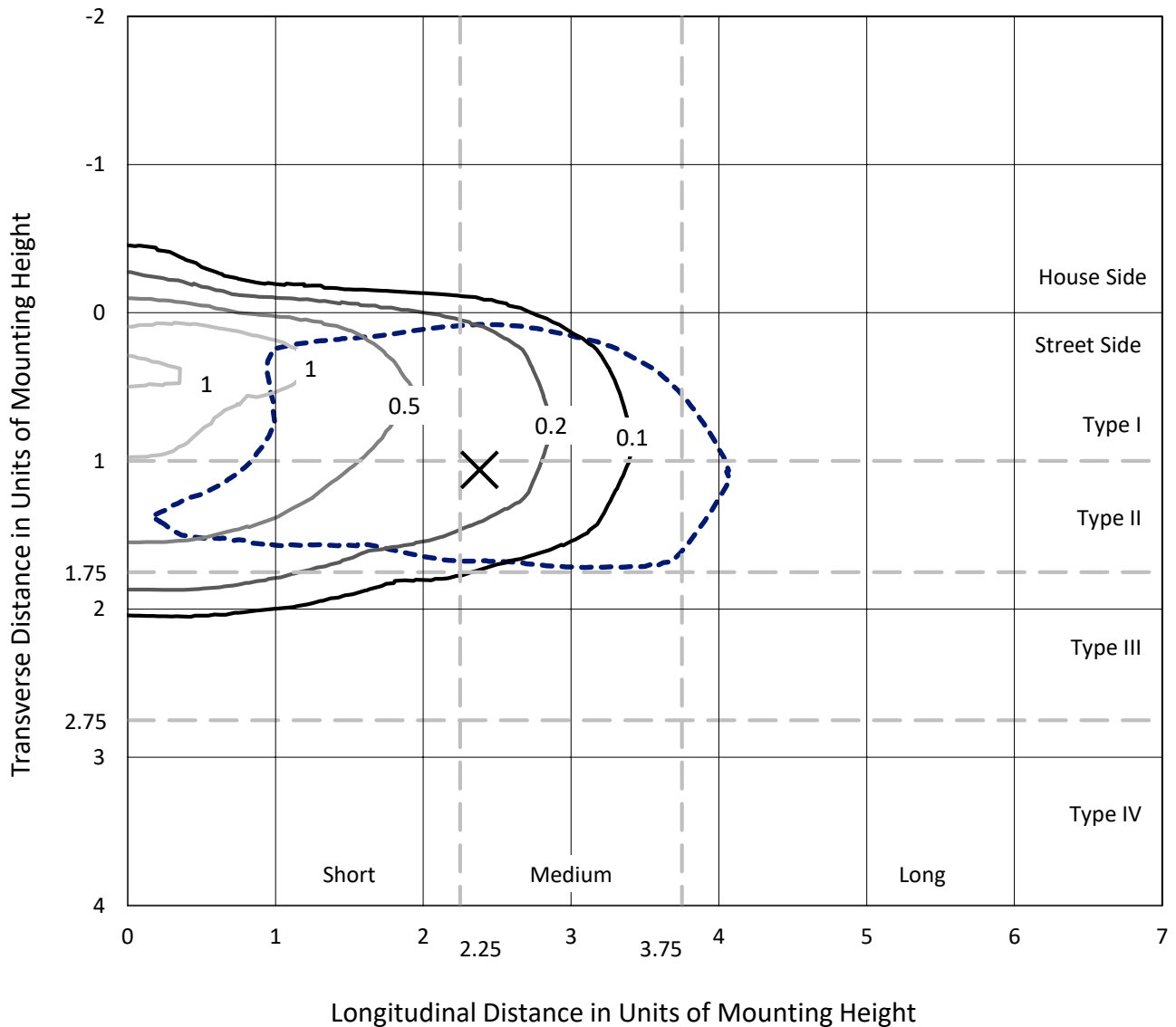
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

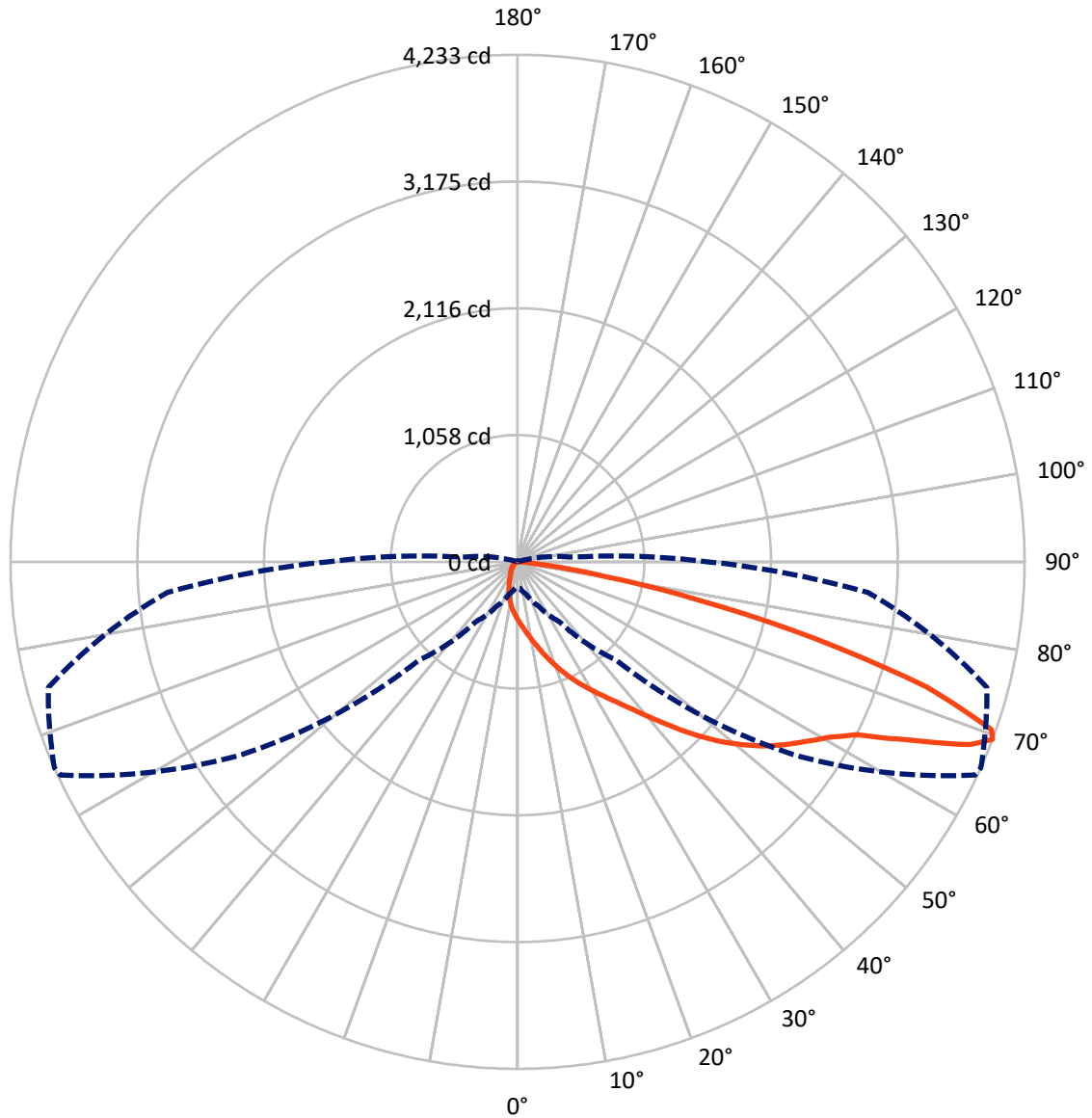
✕ Max cd  
 - - - 1/2 Max cd



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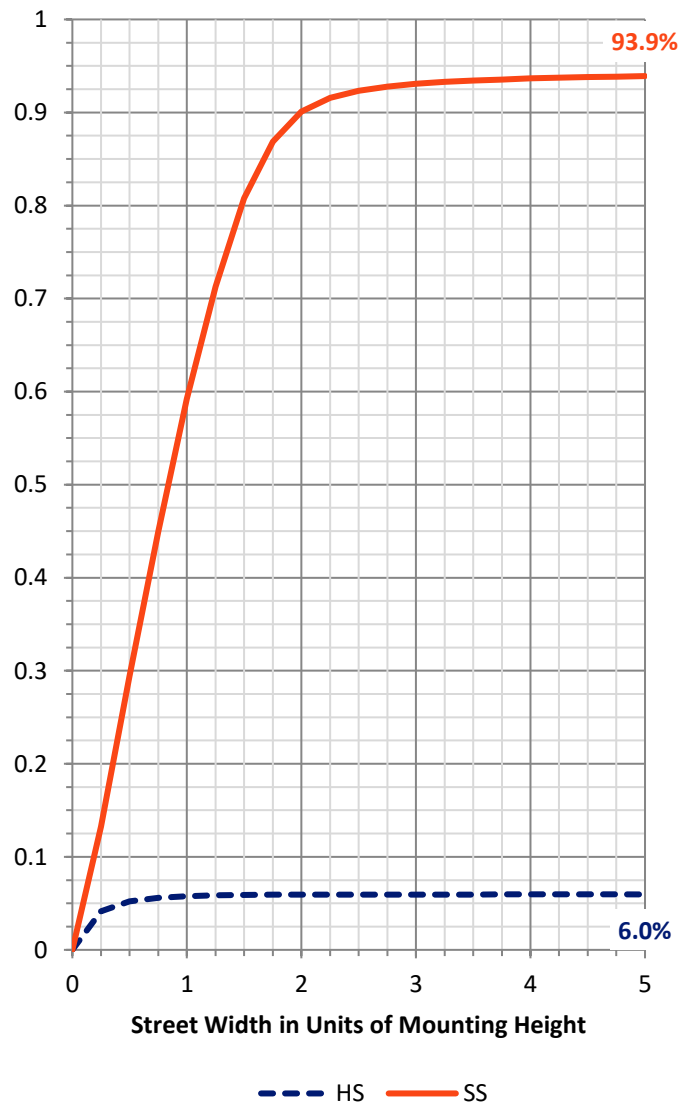
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	255.3	0.0	255.3
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	4000.7	0.0	4000.7
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	4256.0	0.0	4256.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.8	1.1
10°-20°	139.3	3.3
20°-30°	242.6	5.7
30°-40°	425.7	10.0
40°-50°	712.6	16.7
50°-60°	1047.4	24.6
60°-70°	1075.4	25.3
70°-80°	530.9	12.5
80°-90°	35.1	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°	4256.0	100.0
0°-180°	4256.0	100.0

**Coefficient of Utilization**

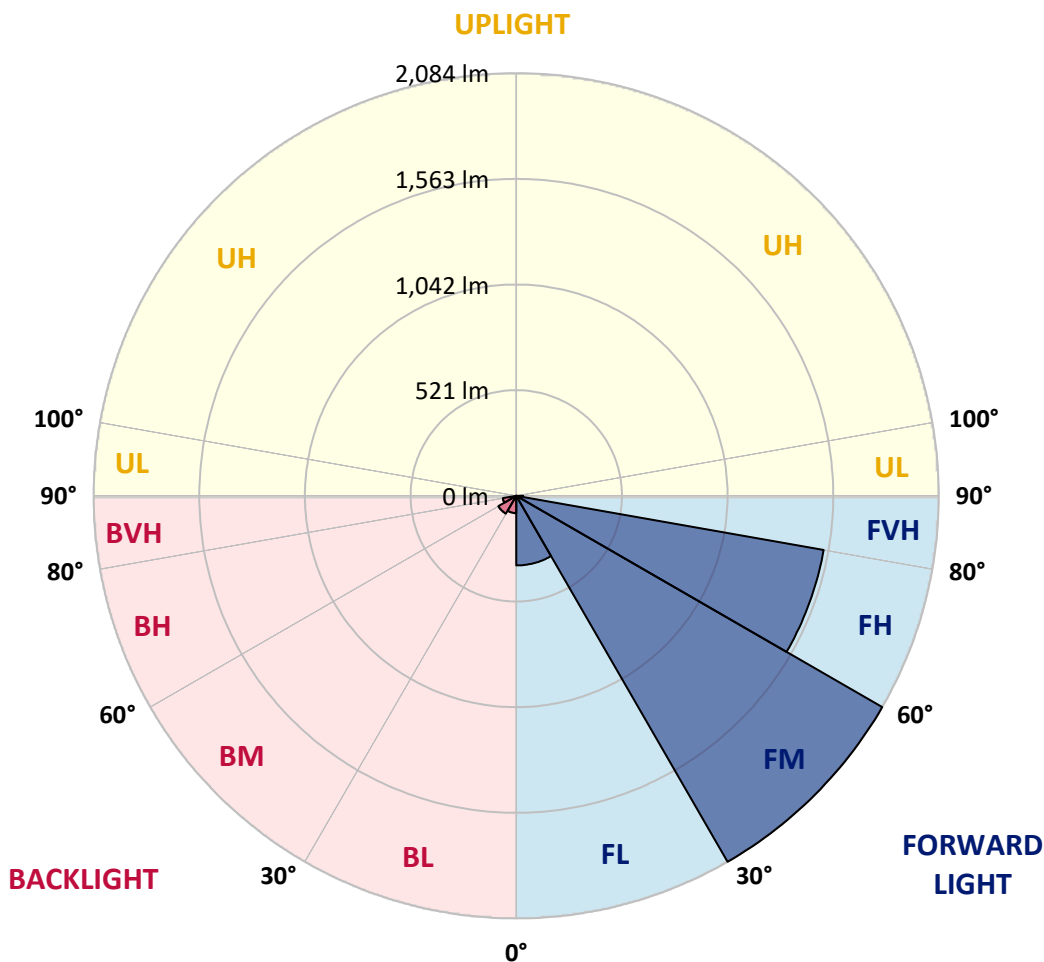


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.4	8.1			
FM (30°-60°)	2083.9	49.0			
FH (60°-80°)	1539.1	36.2			G1/1800
FVH (80°-90°)	34.3	0.8			G1/100
BL (0°-30°)	85.4	2.0	B0/110		
BM (30°-60°)	101.8	2.4	B0/220		
BH (60°-80°)	67.3	1.6	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3
2.5°	570.1	567.6	566.6	562.2	554.5	548.6	537.3	524.2	521.7	509.0	493.4
5°	644.0	642.0	640.6	634.3	626.5	611.7	591.1	566.6	562.0	537.7	506.6
7.5°	695.6	699.2	699.2	695.2	685.3	674.2	648.9	615.5	609.7	572.5	524.2
10°	725.7	730.2	733.6	737.0	735.6	731.2	707.3	669.7	662.6	613.3	544.6
12.5°	728.5	733.0	742.7	757.0	771.0	781.1	766.1	729.8	721.7	660.6	568.8
15°	712.8	717.4	732.4	760.3	794.0	823.6	828.4	796.3	788.0	717.0	599.2
17.5°	685.3	688.3	709.7	748.4	801.3	855.5	884.8	867.6	859.9	781.5	632.9
20°	664.9	667.1	685.9	727.3	796.9	875.5	938.2	943.4	935.3	850.6	669.5
22.5°	699.8	703.9	704.5	724.1	784.7	885.4	985.1	1018.0	1012.0	924.0	705.5
25°	795.5	800.1	784.7	772.6	795.0	889.9	1025.3	1094.4	1089.6	1003.1	741.7
27.5°	921.8	926.6	906.8	870.7	849.0	906.6	1061.1	1172.1	1171.9	1086.7	780.7
30°	1045.9	1050.8	1030.6	994.4	944.6	954.1	1092.0	1253.3	1254.5	1173.1	822.1
32.5°	1176.1	1182.2	1161.3	1114.8	1062.9	1036.2	1135.5	1335.0	1341.9	1273.1	868.8
35°	1324.1	1324.9	1295.6	1246.8	1187.0	1146.0	1205.2	1426.6	1442.9	1397.0	928.1
37.5°	1469.2	1475.1	1451.0	1374.2	1319.2	1272.7	1308.9	1541.0	1564.2	1548.5	1005.5
40°	1576.8	1589.1	1585.6	1502.8	1450.6	1417.5	1437.7	1677.0	1706.5	1724.7	1103.1
42.5°	1644.3	1653.6	1669.3	1619.4	1572.1	1577.6	1589.7	1835.5	1871.9	1925.7	1215.3
45°	1721.7	1726.1	1739.3	1717.2	1685.3	1740.3	1751.0	2014.0	2052.2	2141.8	1339.8
47.5°	1816.3	1826.8	1830.4	1810.2	1795.7	1884.2	1906.5	2176.3	2229.9	2373.2	1471.6
50°	1936.8	1939.6	1945.9	1932.7	1918.2	2007.9	2045.9	2346.7	2395.5	2605.5	1601.6
52.5°	2054.6	2064.7	2086.6	2078.3	2072.4	2113.3	2170.3	2500.4	2554.7	2799.1	1731.4
55°	2088.6	2097.3	2172.7	2224.2	2271.9	2243.0	2289.1	2638.0	2696.9	2972.2	1856.3
57.5°	1953.0	1970.5	2101.1	2235.4	2433.3	2444.8	2452.5	2779.3	2832.1	3104.8	1986.3
60°	1610.1	1613.5	1827.8	2058.1	2406.6	2620.8	2691.0	2931.1	2975.4	3228.3	2142.0
62.5°	1024.1	1059.1	1294.2	1619.2	2124.4	2595.4	2979.5	3160.8	3177.0	3376.5	2365.1
65°	487.8	510.4	679.8	1000.4	1538.8	2269.3	3178.6	3576.2	3583.5	3670.2	2663.3
67.5°	270.1	281.0	361.6	538.5	899.6	1604.9	3098.1	4068.2	4075.1	3970.2	2924.9
69°	211.2	220.5	284.0	405.9	609.9	1153.5	2803.6	4212.4	4232.8	4056.1	2934.2
70°	179.3	188.4	244.6	342.8	490.4	891.3	2495.5	4176.6	4198.2	4048.0	2864.8
72.5°	109.8	115.0	162.9	241.4	328.7	448.4	1539.0	3532.1	3568.7	3713.3	2462.2
75°	74.0	76.8	101.9	166.6	235.1	230.9	799.5	2489.7	2568.9	2888.5	1818.5
77.5°	53.0	55.6	68.3	107.7	164.8	152.4	362.0	1547.2	1564.2	1732.4	991.7
80°	30.1	32.5	48.3	64.1	111.8	101.7	143.9	739.1	747.5	742.9	331.1
82.5°	15.8	17.8	26.5	42.2	71.8	66.5	59.8	247.4	248.6	206.8	72.6
85°	3.0	3.6	13.1	28.9	37.0	28.9	24.5	58.0	59.2	52.4	18.0
87.5°	0.0	0.2	5.3	6.5	7.3	7.5	7.9	11.3	12.1	16.4	4.9
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°	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3
2.5°	486.6	479.3	465.3	449.2	436.6	424.3	414.6	404.5	400.9	399.0	398.8
5°	491.4	476.1	446.5	416.2	391.4	367.9	351.1	335.2	327.7	324.2	322.8
7.5°	499.5	474.8	427.3	381.0	345.3	316.0	292.7	275.3	266.6	263.0	261.6
10°	509.0	473.2	404.9	343.9	298.2	267.8	244.8	227.6	218.1	214.1	212.1
12.5°	520.1	470.4	379.0	306.3	257.9	227.6	199.7	178.5	167.6	162.9	160.7
15°	533.9	467.6	351.9	270.9	222.6	185.6	155.0	140.7	138.5	137.7	137.9
17.5°	547.4	463.1	322.4	235.9	185.4	144.9	129.4	128.6	129.0	129.0	129.0
20°	559.5	453.0	290.3	206.0	150.0	122.3	119.1	117.7	116.6	115.8	114.8
22.5°	569.0	439.5	259.4	176.3	122.5	112.0	106.9	102.5	98.9	96.4	95.2
25°	575.5	421.5	231.1	147.8	110.2	101.9	92.8	85.3	79.6	76.2	74.8
27.5°	580.4	402.1	205.8	123.7	101.7	90.2	78.2	69.3	63.5	60.4	59.2
30°	583.8	380.0	183.6	108.8	92.2	77.8	65.1	56.4	52.2	50.5	49.7
32.5°	587.0	355.6	162.5	101.7	83.3	66.5	54.6	47.9	45.3	43.3	42.7
35°	595.1	332.9	142.5	94.2	74.2	56.8	46.9	42.0	39.4	38.2	37.8
37.5°	614.3	316.2	123.3	86.5	65.1	49.1	41.0	37.6	35.2	34.0	33.6
40°	645.3	307.7	107.1	78.2	56.2	43.3	37.2	34.0	31.3	29.5	29.1
42.5°	690.7	308.9	95.8	69.9	49.1	38.6	33.6	29.7	26.9	25.3	24.9
45°	745.9	317.8	87.9	61.9	43.3	35.0	29.5	25.5	22.8	21.4	21.0
47.5°	805.8	332.1	81.5	54.6	38.6	31.5	25.5	21.2	19.0	17.8	17.6
50°	868.8	346.1	74.8	47.5	34.6	28.1	21.4	17.6	15.8	14.8	14.4
52.5°	932.7	362.2	68.7	41.0	31.1	24.1	17.8	14.4	12.9	12.1	11.7
55°	1001.4	374.4	62.9	36.0	27.7	20.4	14.8	11.9	10.7	9.7	9.5
57.5°	1082.3	393.2	56.8	31.1	23.7	17.0	12.1	9.5	8.5	7.5	7.3
60°	1191.5	415.2	50.3	27.5	19.4	13.9	9.9	7.7	6.5	5.7	5.5
62.5°	1335.4	439.7	42.2	24.1	15.8	11.3	7.9	6.1	4.6	3.6	3.6
65°	1517.9	479.5	34.6	20.2	12.9	9.3	6.1	4.4	2.6	1.6	1.6
67.5°	1624.5	486.4	27.9	16.6	10.5	7.9	5.1	3.0	0.8	0.2	0.0
69°	1590.3	446.5	23.7	14.2	9.1	7.5	4.6	2.2	0.4	0.0	0.0
70°	1526.0	408.3	20.8	12.5	8.3	7.1	4.4	1.6	0.4	0.0	0.0
72.5°	1261.0	290.7	15.8	9.3	6.1	6.3	4.0	1.0	0.4	0.0	0.0
75°	918.6	176.7	11.3	6.5	3.8	4.6	2.8	0.4	0.2	0.0	0.0
77.5°	511.0	83.3	7.1	3.6	2.4	2.8	1.4	0.0	0.0	0.0	0.0
80°	166.0	22.6	3.2	2.0	1.4	1.6	0.6	0.0	0.0	0.0	0.0
82.5°	30.7	6.5	1.8	1.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0
85°	6.7	2.6	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.8	0.2	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)