

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: P322186

Luminaire Tested: **GAN-SA2A-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322186
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-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 6328 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

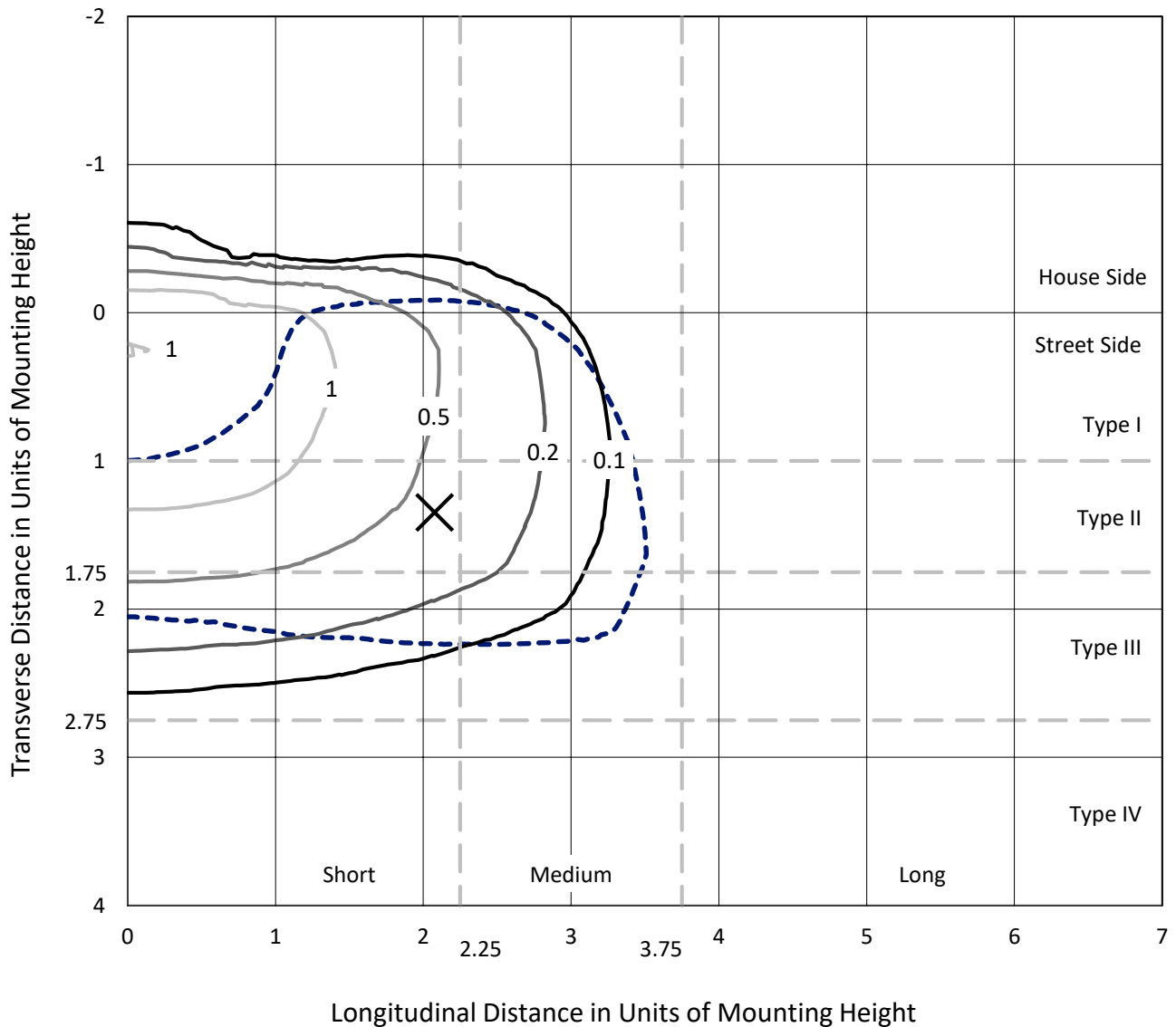
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

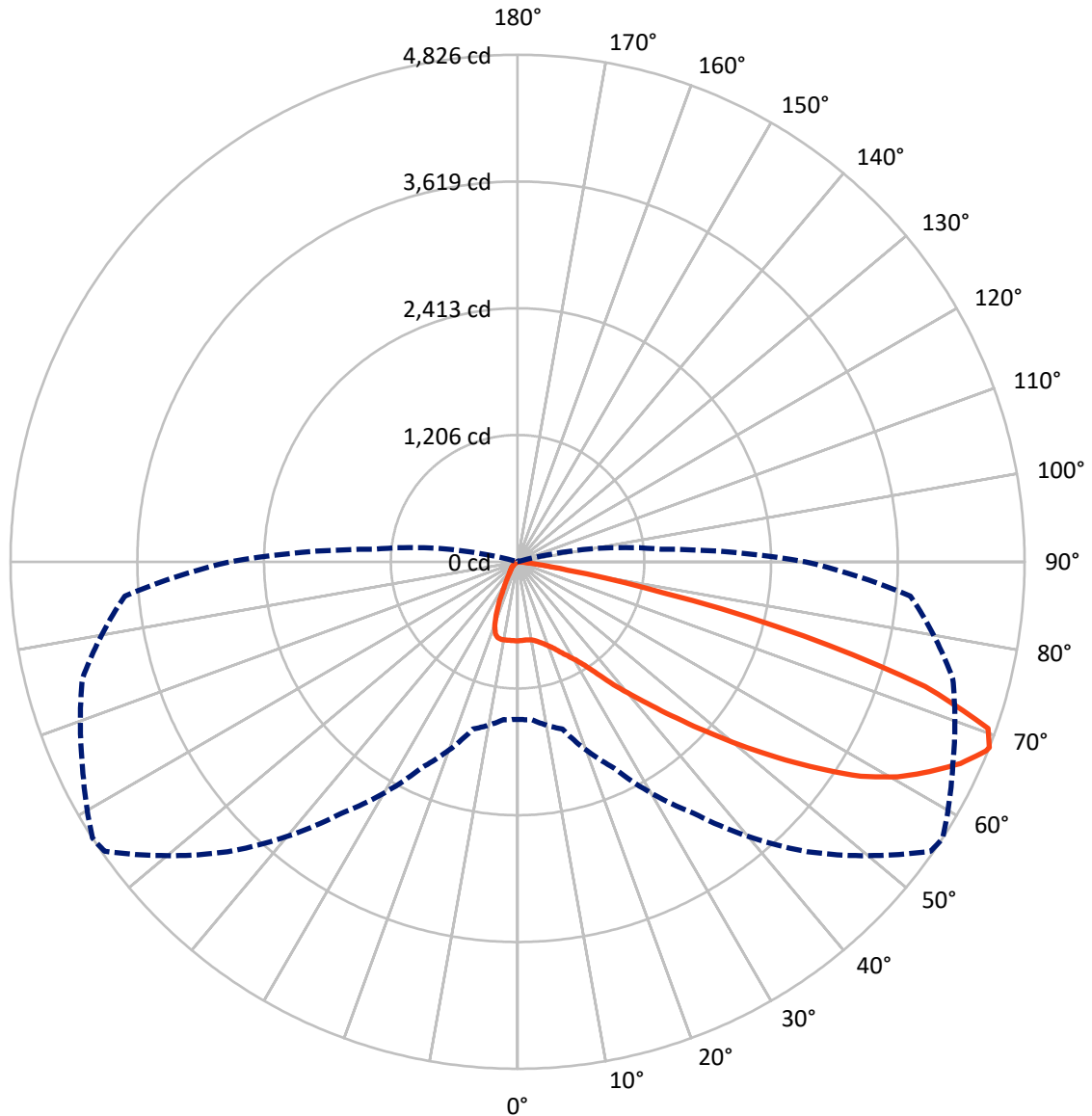
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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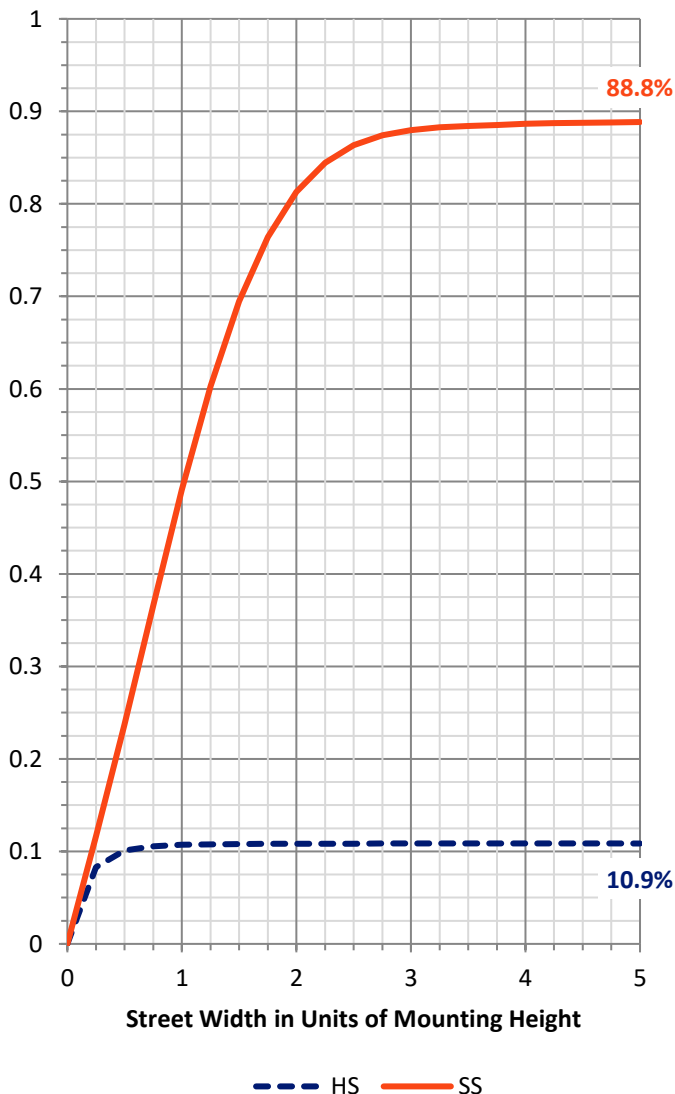
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	693.9	0.0	693.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	5634.1	0.0	5634.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	6328.0	0.0	6328.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	1.1
10°-20°	195.0	3.1
20°-30°	336.4	5.3
30°-40°	580.6	9.2
40°-50°	993.1	15.7
50°-60°	1588.9	25.1
60°-70°	1835.8	29.0
70°-80°	701.5	11.1
80°-90°	26.3	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°	6328.0	100.0
0°-180°	6328.0	100.0

Coefficient of Utilization



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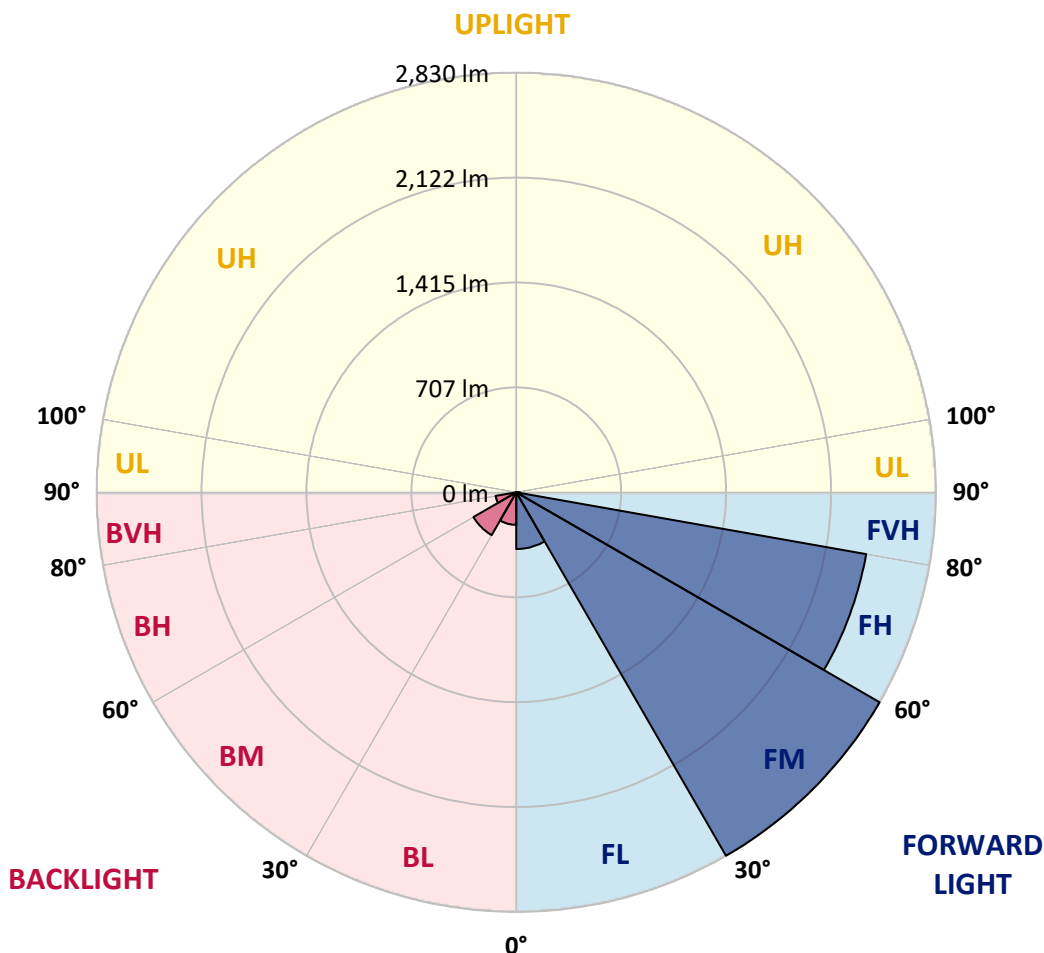
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	382.5	6.0			
FM (30°-60°)	2829.8	44.7			
FH (60°-80°)	2396.0	37.9			G2/5000
FVH (80°-90°)	25.8	0.4			G1/100
BL (0°-30°)	219.3	3.5	B1/500		
BM (30°-60°)	332.8	5.3	B1/1000		
BH (60°-80°)	141.3	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°	751.9	751.9	751.9	751.9	751.9	751.9	751.9	751.9	751.9	751.9	751.9
2.5°	734.3	737.6	740.0	741.5	743.3	747.1	748.3	750.1	751.0	751.0	753.1
5°	705.3	708.8	713.9	718.1	726.5	737.3	745.1	748.0	753.4	758.2	760.9
7.5°	678.3	682.5	688.5	698.4	712.7	730.1	746.2	750.4	760.9	771.1	776.2
10°	661.0	664.3	672.0	686.1	705.0	729.2	751.9	757.0	775.0	792.0	801.6
12.5°	655.0	658.0	666.1	681.9	705.3	733.7	765.1	772.6	798.9	823.7	837.2
15°	663.7	664.3	672.9	687.9	710.9	744.8	786.9	795.9	829.1	861.4	878.2
17.5°	697.2	694.5	699.0	705.6	723.8	759.4	810.0	823.4	867.7	905.7	921.6
20°	781.0	781.0	770.8	752.8	753.1	782.2	841.1	856.4	910.5	954.5	968.9
22.5°	924.3	921.6	901.2	857.3	816.9	821.4	879.1	898.8	962.0	1009.0	1013.7
25°	1096.6	1093.3	1061.9	1000.0	930.0	884.8	930.6	953.3	1023.3	1064.9	1055.0
27.5°	1279.2	1276.5	1245.3	1168.4	1068.8	985.9	991.9	1013.4	1085.9	1126.9	1095.4
30°	1456.0	1456.9	1426.1	1347.1	1234.3	1114.9	1069.7	1082.3	1146.6	1188.2	1143.3
32.5°	1624.2	1625.3	1598.7	1510.4	1405.1	1264.8	1177.4	1174.1	1217.2	1258.2	1206.7
35°	1774.1	1777.1	1758.8	1690.3	1578.7	1431.8	1317.2	1309.4	1317.5	1363.8	1304.0
37.5°	1918.6	1920.4	1906.6	1848.9	1755.5	1615.2	1493.7	1482.6	1465.3	1500.9	1432.4
40°	2076.9	2072.4	2056.5	2004.2	1924.0	1817.7	1683.4	1664.2	1634.0	1665.7	1601.1
42.5°	2224.1	2219.0	2221.7	2162.4	2094.8	2026.0	1904.5	1871.6	1854.0	1890.5	1808.2
45°	2408.1	2405.4	2414.4	2362.9	2308.2	2258.2	2158.0	2122.0	2114.3	2157.1	2058.6
47.5°	2589.7	2596.3	2624.1	2602.3	2580.2	2536.2	2426.4	2410.2	2415.0	2466.7	2322.8
50°	2741.1	2748.9	2825.2	2850.3	2882.4	2856.6	2746.5	2736.6	2755.5	2802.2	2607.1
52.5°	2850.6	2866.5	2961.4	3077.2	3193.8	3211.2	3101.4	3092.4	3117.8	3125.0	2826.7
55°	2926.6	2940.7	3048.1	3260.0	3497.6	3572.4	3504.1	3469.4	3464.6	3393.7	3057.7
57.5°	2940.1	2938.6	3093.0	3378.2	3735.7	3928.7	3885.6	3851.5	3753.4	3642.1	3322.5
60°	2864.1	2872.8	3052.0	3419.2	3885.3	4198.3	4201.6	4157.3	4004.4	3883.5	3579.2
62.5°	2630.1	2665.4	2846.5	3311.7	3883.5	4306.9	4433.2	4399.4	4216.6	4081.3	3839.6
65°	2250.7	2263.3	2435.9	2943.7	3621.1	4261.5	4641.8	4629.2	4407.8	4273.4	3973.3
67.5°	1643.6	1616.4	1797.7	2318.0	3065.8	3996.3	4791.4	4807.2	4555.3	4312.9	3830.9
68°	1500.0	1508.1	1649.3	2163.3	2920.4	3902.7	4801.2	4825.5	4569.9	4287.2	3753.1
70°	894.1	909.6	1035.6	1489.5	2221.7	3372.8	4694.7	4750.1	4482.6	4021.8	3246.2
72.5°	228.3	246.9	365.9	666.7	1269.0	2376.4	3963.1	4056.8	3891.9	3262.7	2191.5
75°	94.0	98.7	130.8	219.6	472.8	1070.6	2612.2	2812.6	2698.0	1953.3	990.4
77.5°	64.9	68.2	84.1	121.8	204.7	363.0	1280.7	1425.5	1284.2	666.7	216.0
80°	46.7	49.4	60.1	81.1	117.6	129.6	417.4	482.6	383.3	146.3	53.6
82.5°	27.8	29.9	44.9	57.7	71.5	61.9	103.8	117.9	111.0	72.7	23.9
85°	13.8	16.2	30.2	41.3	38.6	26.0	31.7	35.3	43.7	44.3	12.9
87.5°	0.9	1.8	17.7	24.8	10.8	6.0	9.3	11.4	15.6	21.8	5.4
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°	751.9	751.9	751.9	751.9	751.9	751.9	751.9	751.9	751.9	751.9	751.9
2.5°	754.0	754.3	752.2	751.3	751.9	748.3	746.8	747.4	747.4	748.3	746.8
5°	761.5	761.5	757.9	753.1	750.4	743.6	739.1	737.9	737.0	736.4	735.2
7.5°	777.7	775.9	769.6	759.1	750.1	735.2	723.8	717.8	714.8	713.6	712.7
10°	803.7	800.4	789.9	770.5	749.8	723.2	698.4	680.7	666.1	660.1	656.5
12.5°	838.7	833.9	816.3	783.9	747.7	698.7	644.8	593.0	544.9	525.1	515.3
15°	879.1	872.2	844.4	795.3	735.5	643.3	526.3	435.7	368.9	343.8	333.0
17.5°	920.1	911.1	868.9	802.5	698.7	528.7	369.2	278.9	234.3	222.3	218.1
20°	961.4	948.2	890.2	797.1	615.5	381.2	243.6	203.8	190.9	187.3	186.1
22.5°	1000.6	980.2	909.3	776.2	487.4	255.8	192.7	180.1	175.9	173.8	173.2
25°	1034.7	1006.3	926.1	711.5	345.0	193.3	173.5	169.4	164.0	160.1	160.4
27.5°	1066.7	1032.3	936.3	605.0	230.1	165.2	160.7	155.0	145.1	139.4	139.4
30°	1105.3	1067.0	943.7	465.6	169.4	146.0	142.4	133.8	120.3	112.8	112.8
32.5°	1163.4	1119.7	938.9	326.7	140.3	128.4	120.0	108.0	93.4	86.2	85.9
35°	1252.2	1201.1	904.8	214.2	123.9	111.6	98.1	83.5	70.6	64.6	64.3
37.5°	1371.9	1310.0	828.2	153.2	111.0	96.0	79.9	63.7	54.2	50.3	50.0
40°	1527.2	1436.5	718.7	124.2	99.0	81.1	61.6	49.4	42.8	39.8	40.1
42.5°	1713.6	1572.1	587.4	107.1	87.4	66.7	48.2	38.9	34.7	32.6	32.0
45°	1920.7	1705.8	449.7	95.5	75.7	53.9	37.7	30.8	27.5	26.3	26.3
47.5°	2148.4	1836.0	329.1	85.3	63.1	41.6	30.2	25.1	22.4	21.5	21.2
50°	2355.1	1926.4	237.3	74.5	51.8	32.9	24.5	20.9	19.1	18.0	18.0
52.5°	2527.5	1954.8	174.7	62.8	41.9	26.3	20.3	18.0	16.2	15.3	15.3
55°	2679.2	1943.1	129.9	51.8	33.8	21.5	17.4	15.3	13.8	12.9	12.9
57.5°	2824.6	1905.4	96.9	42.2	27.2	17.4	14.7	12.9	11.4	10.8	10.8
60°	2943.4	1842.6	72.1	34.1	21.8	14.1	12.3	10.5	9.3	8.4	8.4
62.5°	3039.7	1773.2	53.0	28.1	17.4	11.1	9.6	8.7	6.9	6.0	6.0
65°	3040.3	1658.0	39.8	23.3	13.5	8.7	7.2	6.9	4.5	3.6	3.3
67.5°	2820.4	1429.4	30.5	20.0	10.5	6.6	5.4	5.7	2.4	1.5	1.2
68°	2740.5	1371.3	28.7	19.7	9.9	6.3	5.1	5.7	2.1	1.2	0.9
70°	2310.6	1090.9	23.0	19.1	8.7	4.8	4.2	5.7	1.8	0.9	0.6
72.5°	1477.8	633.1	17.1	15.3	6.6	3.6	2.7	5.1	1.8	0.6	0.3
75°	629.0	196.3	11.7	10.8	3.9	2.7	1.8	3.3	1.2	0.3	0.0
77.5°	132.6	44.3	6.9	6.6	2.7	1.8	1.2	0.9	0.3	0.0	0.0
80°	34.1	12.9	3.6	3.3	1.5	0.9	0.6	0.0	0.0	0.0	0.0
82.5°	10.8	5.1	2.1	1.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.4	3.0	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	0.9	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)