

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: P322835

Luminaire Tested: **GAN-SA1B-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3949 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G2

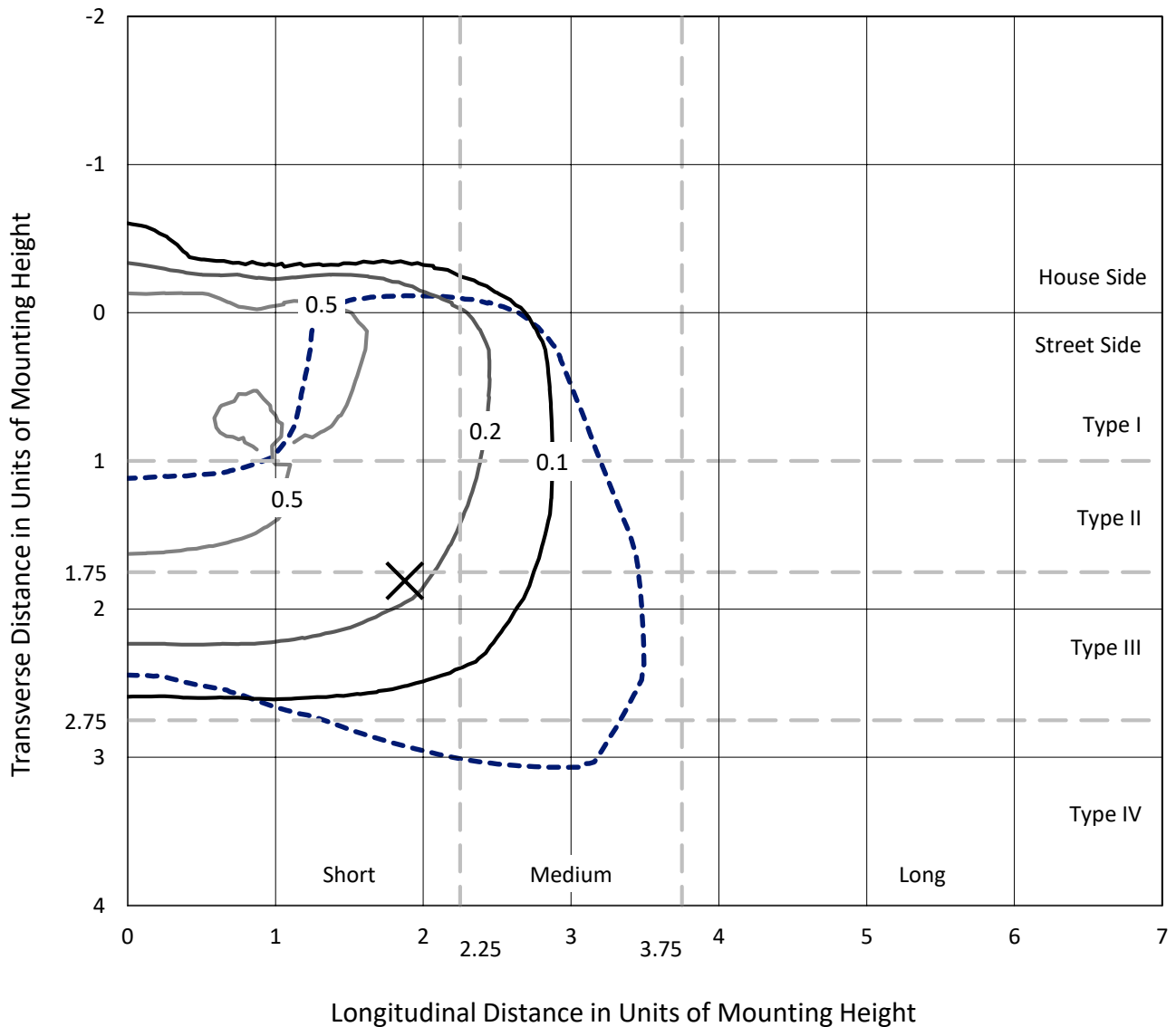
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

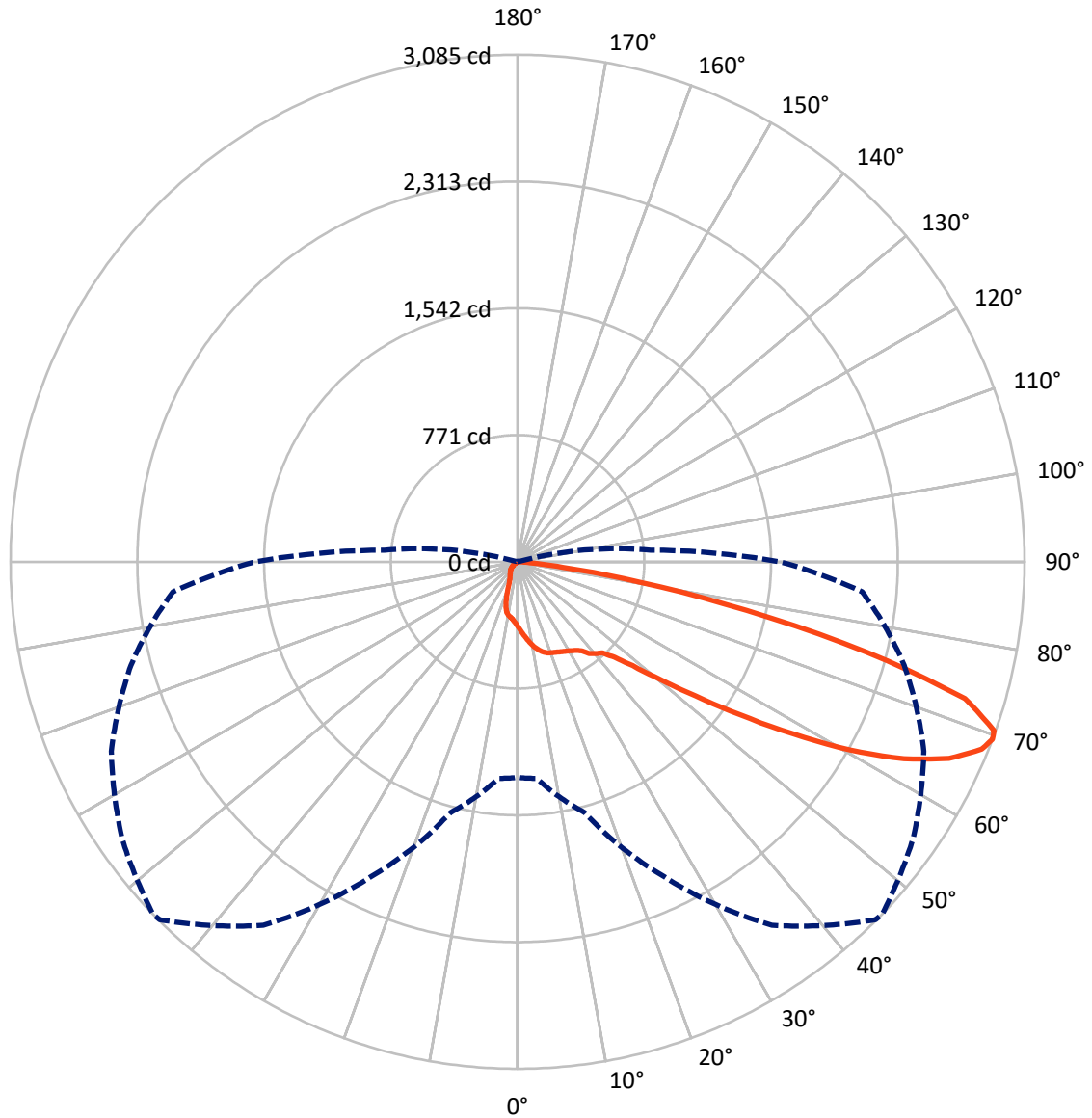
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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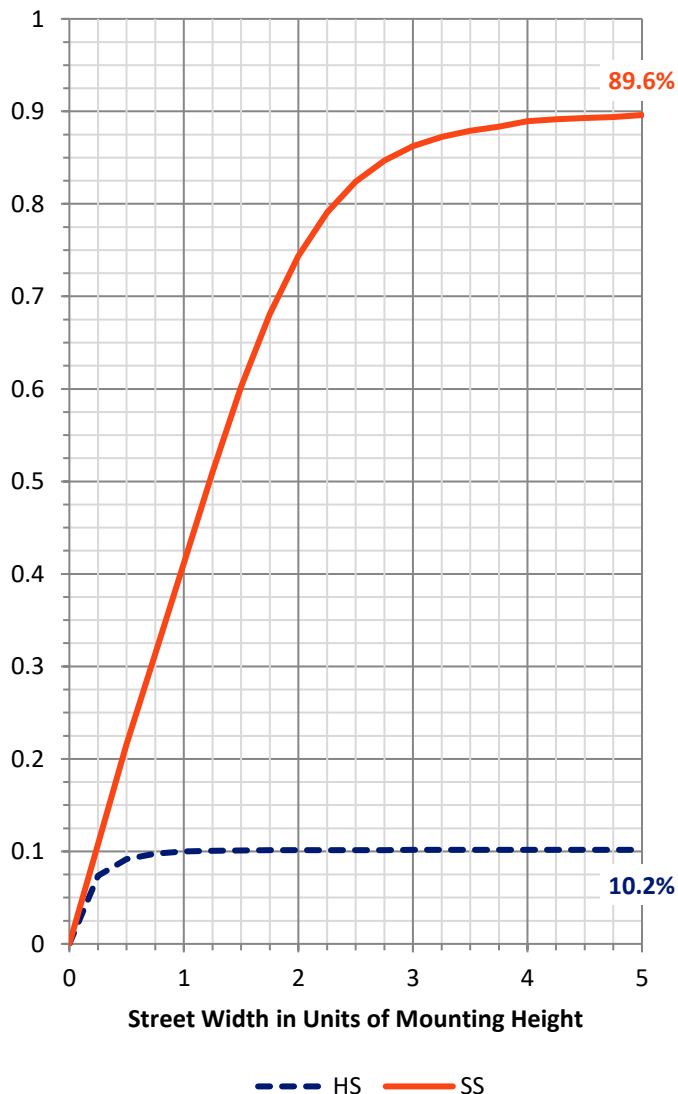
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	405.3	0.0	405.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3543.7	0.0	3543.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	3949.0	0.0	3949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	1.0
10°-20°	119.5	3.0
20°-30°	187.9	4.8
30°-40°	269.4	6.8
40°-50°	465.7	11.8
50°-60°	920.1	23.3
60°-70°	1285.9	32.6
70°-80°	621.2	15.7
80°-90°	39.9	1.0
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°	3949.0	100.0
0°-180°	3949.0	100.0

Coefficient of Utilization



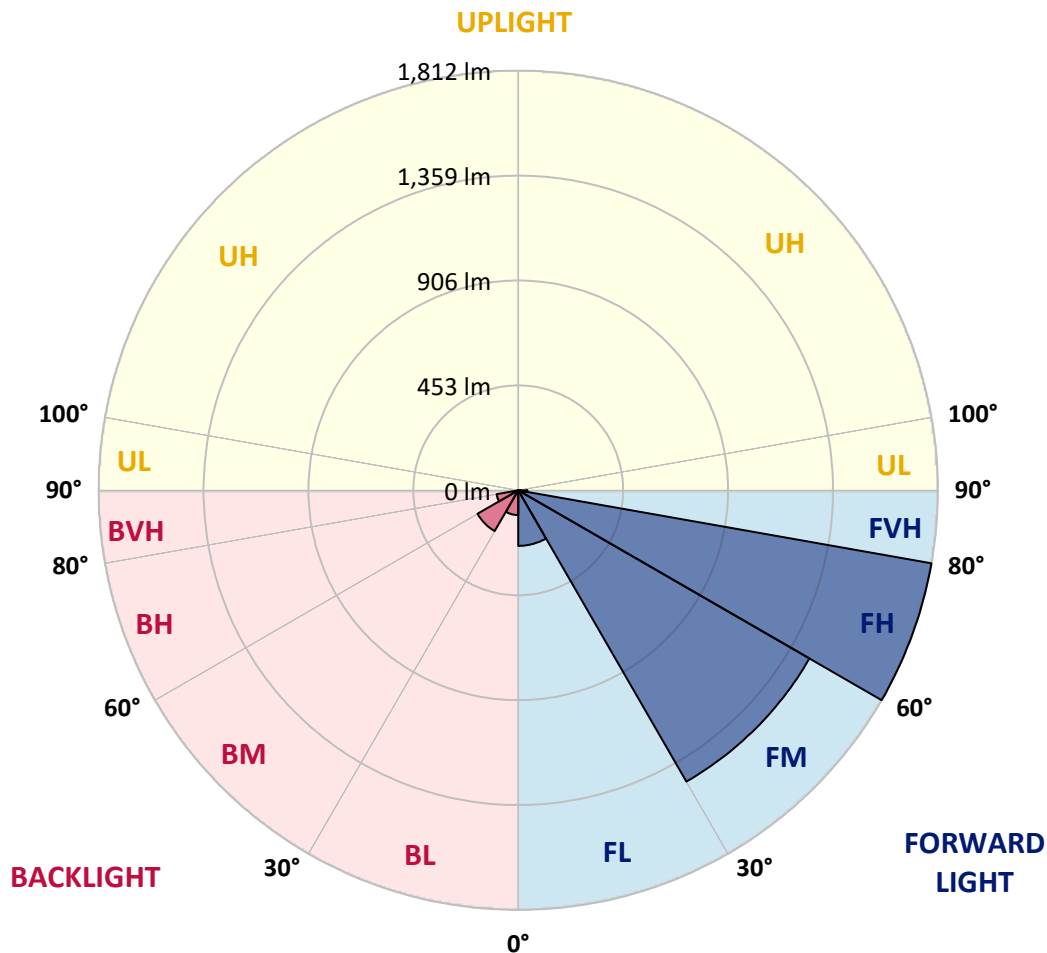
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	239.9	6.1			
FM (30°-60°)	1452.1	36.8			
FH (60°-80°)	1812.0	45.9			G2/5000
FVH (80°-90°)	39.6	1.0			G1/100
BL (0°-30°)	106.8	2.7	B0/110		
BM (30°-60°)	203.1	5.1	B0/220		
BH (60°-80°)	95.0	2.4	B0/110		G0/110
BVH (80°-90°)	0.3	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	395.7	395.7	395.7	395.7	395.7	395.7	395.7	395.7	395.7	395.7	395.7
2.5°	439.6	439.0	436.4	435.3	429.0	425.3	423.8	419.2	412.5	405.9	398.5
5°	489.5	489.4	484.5	479.9	468.1	457.0	454.9	444.2	429.2	415.1	401.0
7.5°	540.7	538.2	533.4	524.5	507.3	489.5	487.9	472.7	451.4	431.0	410.9
10°	584.0	582.5	576.2	562.7	542.5	522.3	520.3	501.6	477.5	452.5	426.8
12.5°	617.7	616.6	608.2	591.4	569.9	549.0	546.2	529.5	503.8	475.8	445.5
15°	638.2	637.7	627.5	609.5	588.4	570.3	567.9	553.2	529.4	500.1	465.8
17.5°	643.0	643.2	632.7	614.5	597.1	584.2	582.3	571.2	551.2	522.1	486.2
20°	632.3	634.5	625.1	609.3	598.6	591.8	590.3	583.6	566.8	539.4	502.5
22.5°	617.1	618.2	611.8	601.2	596.8	598.0	597.3	593.6	579.3	554.2	518.6
25°	607.9	607.9	604.0	595.1	598.0	606.0	606.2	605.5	594.2	572.3	538.2
27.5°	607.5	606.4	601.9	595.3	603.4	615.6	616.4	621.4	614.3	594.3	562.7
30°	622.3	621.0	611.6	602.9	613.2	626.4	628.2	639.2	635.6	618.2	589.9
32.5°	656.9	652.3	631.4	617.1	624.9	640.6	643.0	660.4	666.0	647.7	616.2
35°	704.3	689.7	659.5	644.2	644.9	661.4	663.6	689.1	705.6	674.7	636.6
37.5°	769.7	762.5	713.4	672.3	675.6	700.6	707.1	734.9	730.2	689.5	659.7
40°	913.0	901.7	849.5	751.2	705.1	732.5	734.5	749.3	749.7	723.0	707.8
42.5°	1108.1	1103.5	1048.5	894.3	763.0	753.8	757.5	782.5	810.4	793.8	793.0
45°	1324.2	1321.8	1263.5	1084.3	880.2	823.6	828.2	861.7	915.2	918.9	942.4
47.5°	1498.1	1497.0	1463.5	1296.3	1059.6	941.9	943.4	978.9	1073.0	1119.4	1157.0
50°	1656.6	1661.9	1635.5	1525.7	1304.0	1127.2	1123.7	1147.4	1298.5	1374.6	1421.2
52.5°	1876.9	1884.5	1810.3	1739.7	1560.5	1357.2	1354.4	1379.2	1569.6	1626.6	1634.9
55°	2071.5	2058.5	1999.9	1979.5	1873.2	1641.2	1640.5	1662.3	1831.7	1856.0	1871.4
57.5°	2157.4	2152.4	2180.7	2227.4	2200.7	1976.9	1975.2	1958.6	2066.3	2068.9	2116.1
60°	2211.7	2217.8	2304.6	2448.5	2515.0	2338.1	2327.4	2225.7	2290.4	2284.6	2335.2
62.5°	2170.9	2183.0	2339.2	2579.0	2750.1	2653.4	2638.3	2470.5	2481.8	2462.0	2509.0
65°	1954.7	1973.4	2229.4	2554.4	2866.7	2899.9	2884.5	2686.6	2633.8	2601.2	2575.1
67.5°	1587.1	1598.3	1865.6	2340.2	2814.2	3046.9	3043.8	2876.0	2748.6	2577.7	2375.2
69°	1311.6	1322.6	1579.9	2114.6	2698.4	3078.4	3084.5	2936.7	2726.8	2434.8	2104.5
70°	1110.9	1122.6	1362.4	1921.3	2564.2	3063.8	3074.7	2931.0	2664.2	2269.3	1866.9
72.5°	582.7	592.7	838.7	1323.7	2090.4	2813.2	2846.4	2683.3	2258.3	1648.1	1103.9
75°	183.1	188.9	327.5	691.9	1431.2	2187.4	2195.0	2104.8	1603.6	906.5	459.7
77.5°	69.8	68.1	109.1	255.0	723.6	1377.4	1423.8	1315.3	841.5	320.5	106.1
80°	37.6	37.8	56.7	105.5	309.6	707.8	747.1	637.5	299.0	100.0	24.4
82.5°	16.3	17.0	31.8	55.9	142.2	261.1	280.7	233.7	114.2	67.2	9.1
85°	3.5	3.9	15.4	30.4	58.0	73.3	76.8	75.7	72.8	52.2	3.5
87.5°	0.0	0.0	6.9	10.9	14.6	16.7	14.6	19.1	40.2	35.2	1.9
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°	395.7	395.7	395.7	395.7	395.7	395.7	395.7	395.7	395.7	395.7	395.7
2.5°	396.0	392.7	387.0	380.7	376.2	371.6	367.9	366.2	364.4	363.1	364.8
5°	395.3	388.8	377.7	367.0	359.2	352.9	347.7	345.7	343.6	342.2	342.0
7.5°	401.8	392.7	375.7	359.9	347.9	339.4	332.4	329.4	327.0	325.9	324.9
10°	414.2	402.5	379.8	359.2	343.6	329.2	314.0	302.4	294.8	291.2	290.0
12.5°	430.3	415.7	387.5	363.1	340.5	312.7	280.5	252.7	234.8	228.9	225.3
15°	449.2	431.0	397.7	368.1	329.0	278.3	223.7	187.4	170.7	167.4	163.7
17.5°	467.3	447.3	409.9	369.0	303.8	222.4	163.9	139.2	132.8	135.0	135.5
20°	483.3	463.4	422.0	360.9	258.1	166.8	126.8	120.7	123.1	127.4	128.1
22.5°	499.4	479.0	433.1	339.4	199.6	126.6	114.2	115.7	118.1	122.4	123.1
25°	519.0	497.9	443.4	300.0	149.8	107.8	108.5	110.7	113.1	117.0	117.4
27.5°	541.6	521.8	450.3	248.7	111.1	99.1	101.5	104.8	107.2	110.9	111.6
30°	571.6	553.2	452.5	195.5	93.1	91.3	92.4	96.5	100.0	103.3	103.9
32.5°	599.7	584.3	445.1	147.6	86.3	84.1	84.1	86.5	90.5	93.7	94.4
35°	625.6	615.6	421.4	107.9	81.1	77.4	75.5	75.5	78.1	80.7	81.5
37.5°	659.9	659.5	383.1	86.1	76.1	71.8	68.0	65.0	64.1	64.6	65.0
40°	718.6	719.1	333.1	77.2	71.8	66.1	60.2	54.8	49.8	48.1	48.0
42.5°	810.2	801.9	280.7	73.0	68.1	60.2	51.3	44.1	36.3	33.9	33.7
45°	955.8	906.3	225.1	69.1	64.2	53.5	42.4	32.6	26.3	24.4	24.4
47.5°	1167.8	1043.5	174.4	64.8	59.1	45.9	32.0	23.5	19.3	18.3	18.5
50°	1387.0	1178.0	133.7	59.4	52.8	38.0	23.7	17.0	14.6	14.6	14.8
52.5°	1581.4	1276.5	104.2	53.7	45.0	29.8	18.0	13.3	12.2	12.0	12.2
55°	1763.4	1340.0	79.8	47.0	35.7	22.2	13.7	10.9	10.2	9.8	9.6
57.5°	1938.9	1371.4	59.8	38.0	25.9	16.1	10.9	9.3	8.5	8.0	7.8
60°	2055.8	1345.9	41.1	28.0	18.0	11.7	9.1	8.0	7.0	6.5	6.3
62.5°	2121.7	1276.1	26.5	20.2	12.8	8.7	7.2	6.7	5.4	4.8	4.8
65°	2095.0	1160.9	18.5	14.4	9.3	6.5	5.4	5.4	3.9	3.1	3.0
67.5°	1856.5	980.8	14.1	10.7	6.7	4.8	4.1	4.6	2.4	1.5	1.5
69°	1597.3	812.8	12.0	8.9	5.6	3.9	3.5	4.3	1.7	1.1	0.9
70°	1388.3	701.2	10.9	7.8	4.6	3.3	3.1	4.1	1.7	0.9	0.7
72.5°	830.6	391.0	8.3	5.6	3.0	2.6	2.6	4.6	1.7	0.9	0.7
75°	335.7	137.8	6.1	3.9	2.2	2.2	3.1	5.9	1.5	0.7	0.6
77.5°	76.1	30.2	3.5	2.4	1.5	2.2	3.7	4.6	0.9	0.4	0.0
80°	18.5	7.4	2.2	1.5	0.9	1.7	2.8	2.6	0.2	0.0	0.0
82.5°	6.1	2.6	0.9	0.7	0.2	0.6	1.3	0.7	0.0	0.0	0.0
85°	2.6	1.5	0.4	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	1.7	0.6	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)