

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: P318985

Luminaire Tested: **GAN-SA1A-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4412 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

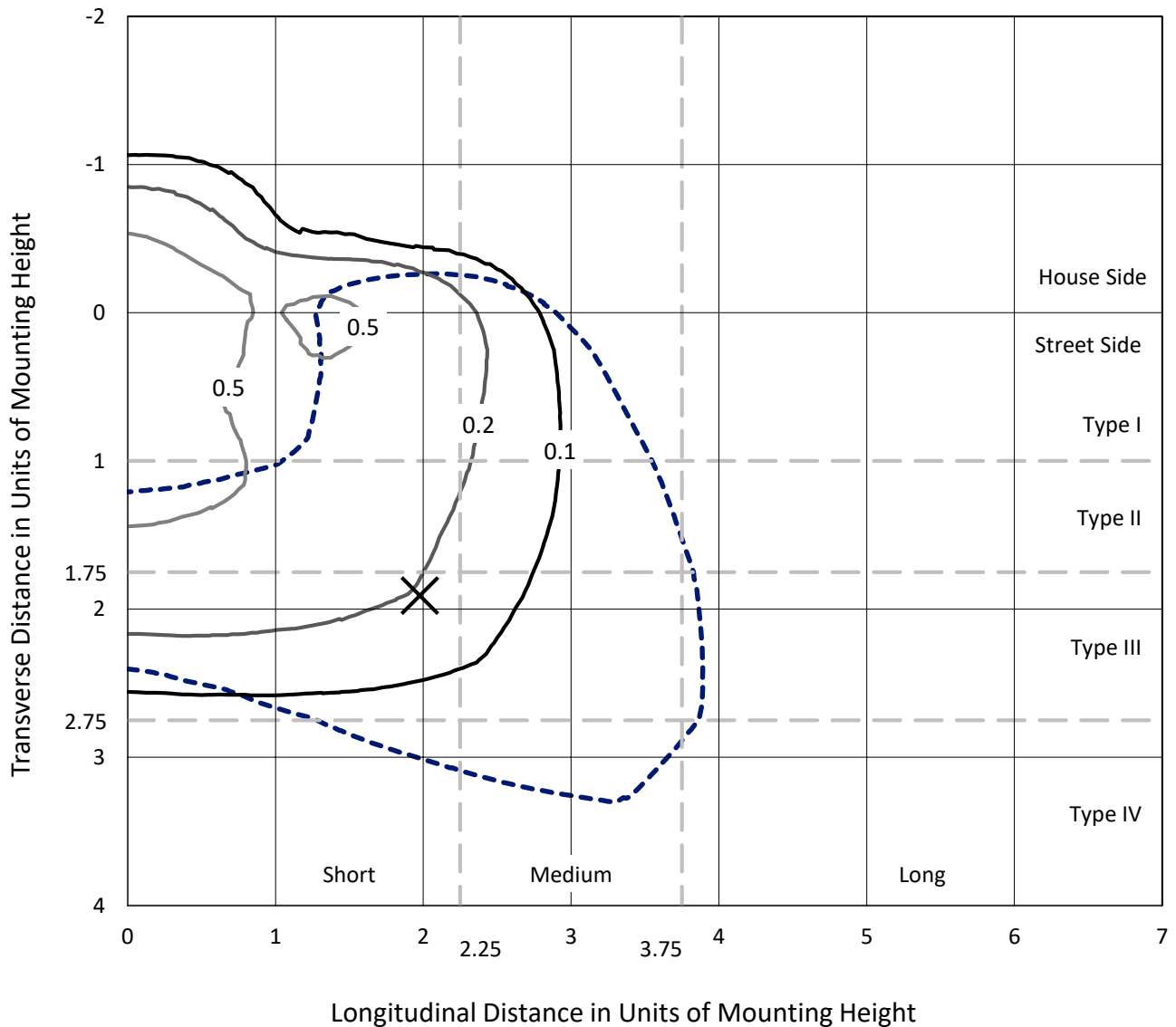
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

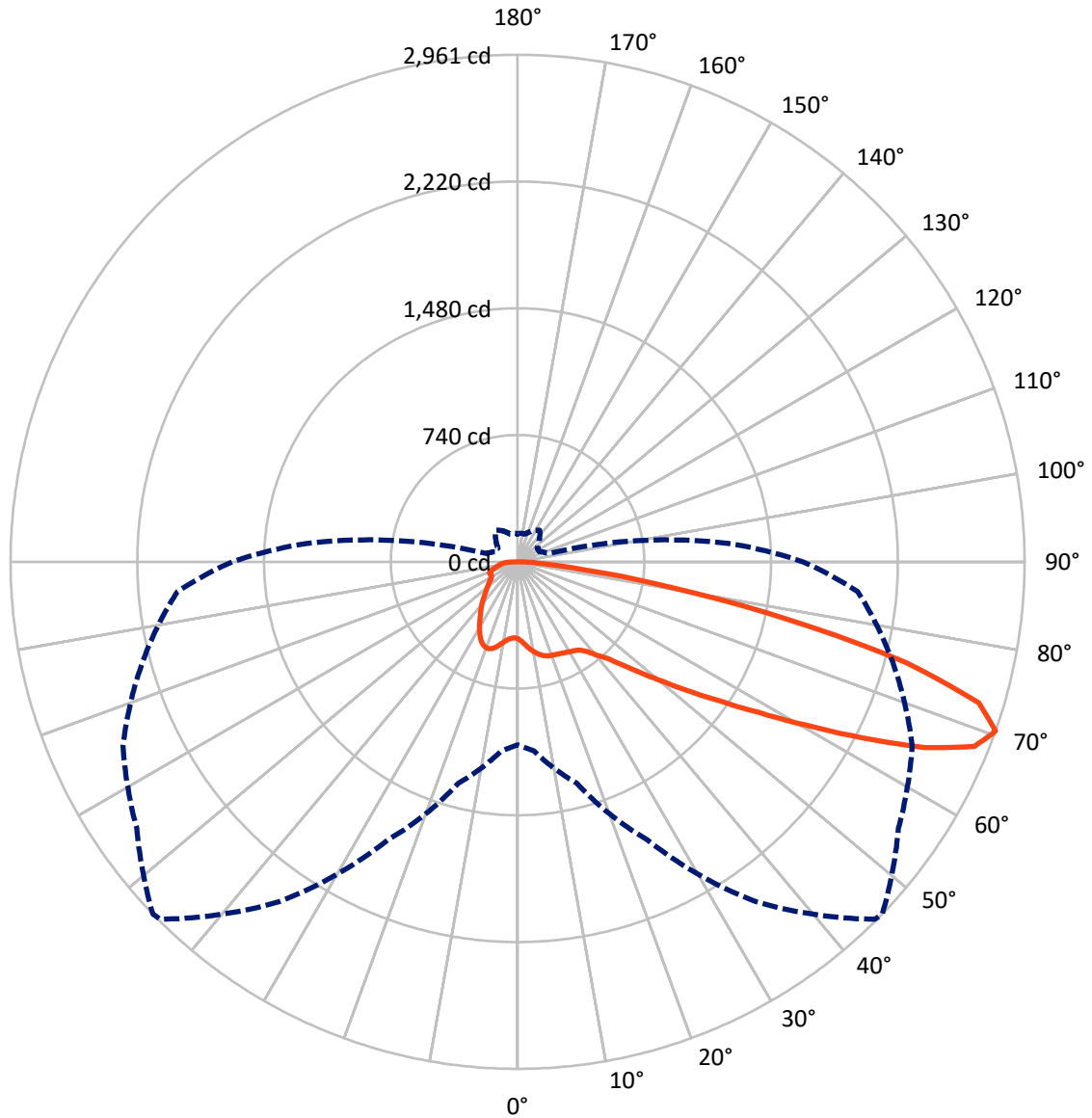
✕ Max cd
 - - - 1/2 Max cd



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 70-Deg Vertical

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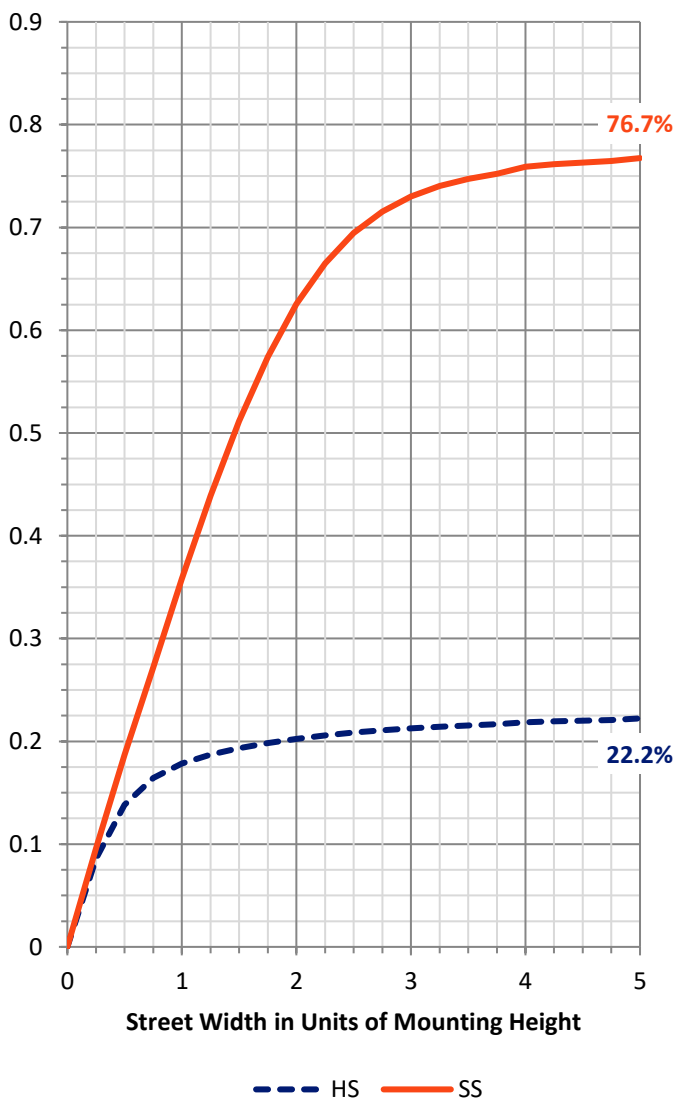
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1011.2	0.0	1011.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3400.8	0.0	3400.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	4412.0	0.0	4412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	1.0
10°-20°	152.7	3.5
20°-30°	254.6	5.8
30°-40°	361.2	8.2
40°-50°	531.4	12.0
50°-60°	899.8	20.4
60°-70°	1277.3	29.0
70°-80°	776.0	17.6
80°-90°	113.2	2.6
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°	4412.0	100.0
0°-180°	4412.0	100.0

Coefficient of Utilization

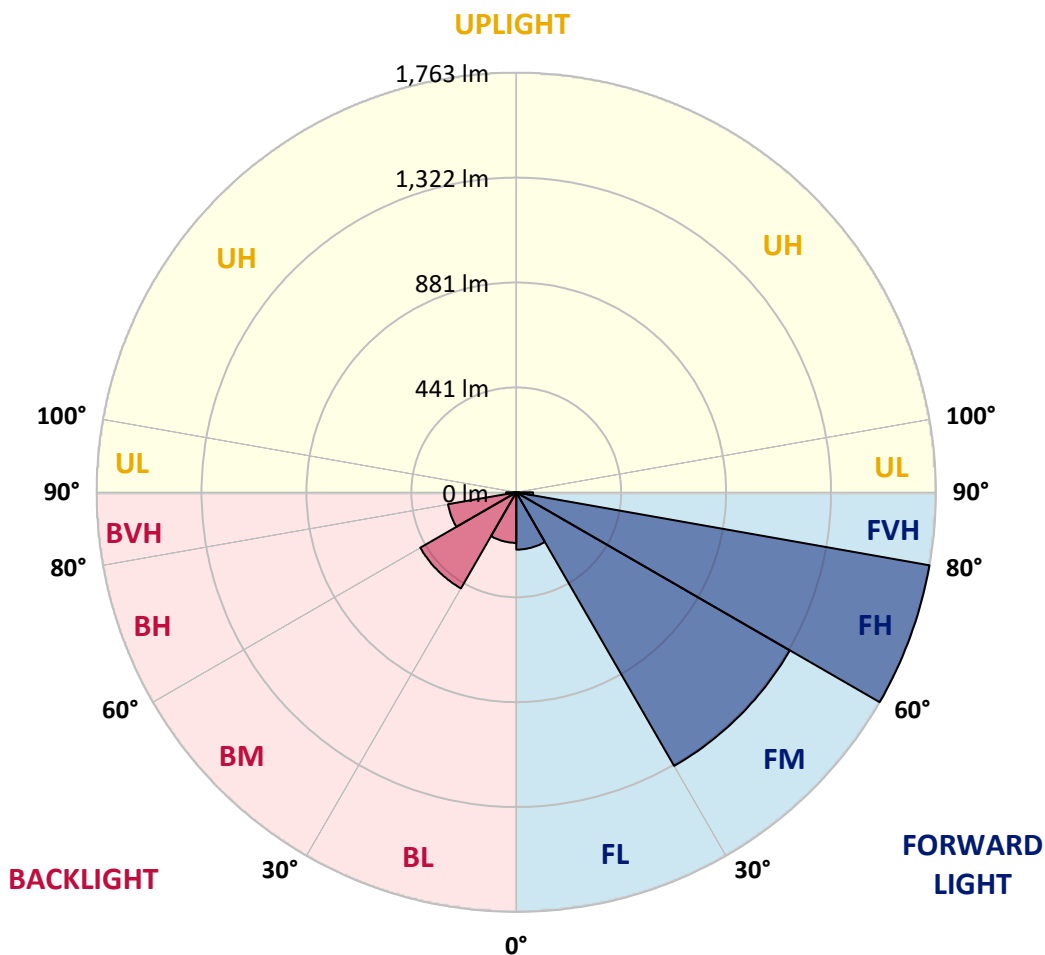


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	240.7	5.5			
FM (30°-60°)	1326.9	30.1			
FH (60°-80°)	1762.6	39.9			G1/1800
FVH (80°-90°)	70.5	1.6			G1/100
BL (0°-30°)	212.3	4.8	B1/500		
BM (30°-60°)	465.5	10.6	B1/1000		
BH (60°-80°)	290.7	6.6	B1/500		G1/500
BVH (80°-90°)	42.7	1.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5
2.5°	472.0	472.3	472.9	471.4	467.2	466.0	465.5	461.1	458.3	454.0	450.4
5°	509.7	510.0	509.1	504.9	495.5	488.6	488.0	478.0	469.0	459.3	452.1
7.5°	549.1	549.6	546.7	538.7	525.6	513.5	512.8	499.2	485.4	470.8	459.9
10°	584.0	582.2	577.5	566.4	550.8	536.0	535.4	521.2	505.4	487.7	473.2
12.5°	607.3	605.8	599.7	586.1	569.1	555.5	554.3	541.1	525.7	506.4	489.1
15°	620.1	621.2	613.0	597.6	581.0	569.5	568.5	559.1	545.4	525.9	506.0
17.5°	621.8	622.7	614.8	599.6	586.0	578.1	577.7	571.5	561.5	542.8	522.0
20°	612.1	612.7	606.2	593.7	584.8	582.4	582.2	579.5	572.1	555.5	535.3
22.5°	598.1	598.5	593.8	584.8	581.8	585.5	586.6	585.5	580.3	564.7	545.7
25°	594.6	594.3	589.5	580.3	582.8	590.8	592.2	592.6	589.0	575.4	559.0
27.5°	611.4	610.3	601.1	586.3	588.0	597.6	599.4	603.8	601.5	589.6	574.1
30°	659.8	658.0	639.1	609.2	601.1	606.1	608.3	615.3	615.7	605.8	594.1
32.5°	741.7	739.4	705.6	652.1	623.3	614.7	616.8	627.2	632.8	625.1	612.6
35°	845.1	842.5	798.1	725.1	660.4	631.1	632.6	641.0	652.1	641.3	624.6
37.5°	952.9	946.7	904.0	810.8	719.5	666.3	666.3	667.4	672.7	650.0	638.8
40°	1060.1	1053.9	1015.3	911.7	795.9	721.7	718.3	694.9	690.6	671.1	667.4
42.5°	1159.8	1157.9	1135.1	1025.7	885.6	776.2	771.4	731.7	732.6	720.5	720.7
45°	1265.7	1265.7	1247.2	1140.7	990.0	863.8	859.0	800.5	809.6	804.0	817.5
47.5°	1352.3	1355.0	1352.4	1260.6	1111.6	975.1	966.3	896.0	921.3	940.5	979.6
50°	1440.6	1444.8	1445.3	1392.1	1258.5	1107.4	1097.4	1022.7	1079.3	1134.2	1211.1
52.5°	1568.8	1578.3	1540.4	1523.3	1438.5	1264.4	1254.6	1185.6	1280.1	1357.2	1489.7
55°	1687.6	1679.3	1652.3	1662.8	1631.1	1443.2	1435.8	1375.2	1503.9	1604.1	1776.1
57.5°	1751.9	1751.3	1778.5	1823.8	1838.9	1663.6	1657.4	1598.5	1756.2	1831.5	2045.0
60°	1827.4	1828.5	1895.8	1998.7	2060.9	1938.1	1935.4	1890.7	2001.2	2043.8	2255.9
62.5°	1838.0	1857.0	1973.0	2149.9	2268.6	2258.8	2264.8	2153.9	2220.5	2213.2	2413.4
65°	1716.5	1741.5	1951.4	2195.7	2475.2	2609.6	2615.1	2418.6	2393.3	2358.0	2469.7
67.5°	1467.3	1504.5	1732.5	2096.2	2543.3	2868.8	2876.7	2623.7	2536.8	2407.1	2334.2
70°	1067.8	1109.0	1338.5	1790.3	2421.9	2951.7	2960.6	2714.5	2542.2	2267.4	1992.6
72.5°	645.0	677.3	866.5	1318.0	2044.1	2800.7	2816.6	2599.4	2321.0	1920.6	1471.4
75°	283.3	304.4	419.0	759.5	1463.4	2317.2	2337.0	2225.0	1885.9	1395.7	869.7
77.5°	120.6	126.7	171.8	329.9	827.3	1583.4	1610.6	1625.7	1279.5	759.5	367.5
80°	75.2	77.6	97.2	149.3	387.1	889.3	918.6	956.5	635.4	279.2	128.3
82.5°	45.7	48.5	64.6	90.3	201.6	403.1	417.2	443.9	246.6	120.6	66.4
85°	27.5	29.4	39.6	57.1	114.8	158.5	158.4	175.1	116.1	77.6	35.0
87.5°	13.1	14.6	21.1	29.6	57.8	59.5	55.7	63.1	70.5	50.9	17.7
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°	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5
2.5°	449.2	448.6	446.6	445.1	444.8	443.9	443.2	443.6	444.2	444.4	444.4
5°	449.0	447.4	444.8	443.8	445.1	446.9	449.2	452.2	454.0	455.4	456.3
7.5°	456.3	453.1	450.3	449.6	452.4	457.2	462.3	468.7	473.1	476.1	476.7
10°	468.4	464.4	461.6	462.2	467.0	474.0	481.2	489.4	496.0	500.1	500.4
12.5°	482.3	478.5	475.8	478.3	486.3	494.8	502.3	509.4	515.5	519.6	519.6
15°	498.3	495.5	492.4	498.3	509.1	516.7	519.9	523.3	526.7	529.7	529.1
17.5°	513.7	511.1	509.4	516.4	527.7	531.2	529.1	526.5	526.5	528.2	528.5
20°	527.0	524.7	525.7	532.5	538.4	534.8	527.0	518.8	515.5	516.4	517.3
22.5°	538.6	537.5	540.7	543.9	539.6	527.0	512.5	501.4	497.4	497.1	497.4
25°	552.2	552.0	555.9	550.2	531.5	508.1	488.6	477.9	475.6	477.4	480.4
27.5°	569.1	570.7	572.7	551.7	514.9	479.5	459.8	452.4	454.6	459.0	461.9
30°	590.7	595.2	591.0	547.9	491.0	446.9	428.1	425.9	432.1	438.3	441.3
32.5°	611.7	618.8	608.5	538.1	460.2	412.4	397.7	397.1	404.7	410.7	414.9
35°	628.6	642.6	621.6	518.6	424.6	380.5	369.8	365.7	368.4	375.5	380.3
37.5°	650.6	674.0	630.7	488.9	385.9	354.2	341.7	332.3	329.9	332.8	335.2
40°	690.9	721.9	634.9	447.4	348.2	327.9	315.3	301.5	292.0	285.1	285.2
42.5°	756.8	784.2	632.2	397.0	313.3	302.3	287.9	272.1	256.7	241.0	239.8
45°	863.7	876.9	624.0	343.5	282.7	275.4	262.0	246.1	225.6	207.8	206.1
47.5°	1034.7	1005.3	611.4	296.8	255.6	252.6	240.2	222.0	200.2	185.9	184.7
50°	1268.0	1190.6	605.2	259.7	231.8	232.7	222.6	203.2	182.7	172.1	170.9
52.5°	1547.0	1406.3	617.1	231.0	212.6	215.8	208.2	190.1	172.9	164.6	163.4
55°	1836.5	1629.8	629.9	210.2	194.5	200.7	198.1	183.2	167.6	159.9	158.8
57.5°	2084.3	1796.6	604.3	193.3	178.3	188.0	190.2	178.8	164.9	157.9	156.7
60°	2240.2	1863.8	536.9	177.4	165.5	177.9	185.7	177.6	165.9	165.3	164.4
62.5°	2314.2	1857.9	435.9	164.9	157.5	173.5	189.0	184.4	178.0	183.5	183.9
65°	2281.0	1769.1	324.6	156.6	151.7	175.1	199.0	197.2	181.5	186.9	187.7
67.5°	2062.4	1557.3	240.4	149.3	145.4	179.8	217.1	201.4	174.7	178.6	176.2
70°	1666.9	1234.6	185.4	141.2	138.9	179.2	225.3	198.9	167.3	168.2	161.7
72.5°	1149.5	841.9	150.8	133.6	129.5	163.4	219.5	192.5	161.1	154.2	145.6
75°	625.1	451.9	128.2	125.8	113.1	143.4	209.0	188.0	155.5	146.3	141.5
77.5°	246.0	187.5	111.3	115.1	98.9	126.7	197.2	179.4	147.8	135.7	133.3
80°	100.4	95.7	92.3	99.5	85.0	110.8	183.0	169.3	138.6	125.9	121.1
82.5°	56.9	59.5	71.7	78.5	69.0	102.1	176.2	161.1	127.6	112.8	107.1
85°	29.1	34.9	50.0	56.3	50.7	86.8	162.3	141.0	102.4	86.4	86.8
87.5°	14.0	19.5	31.6	35.3	32.9	62.8	121.2	102.2	79.7	63.1	61.2
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)