

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: P193299

Luminaire Tested: **GAN-AF-01-LED-U-T4W-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-T4W-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4835.8 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - 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: 28.75 FT

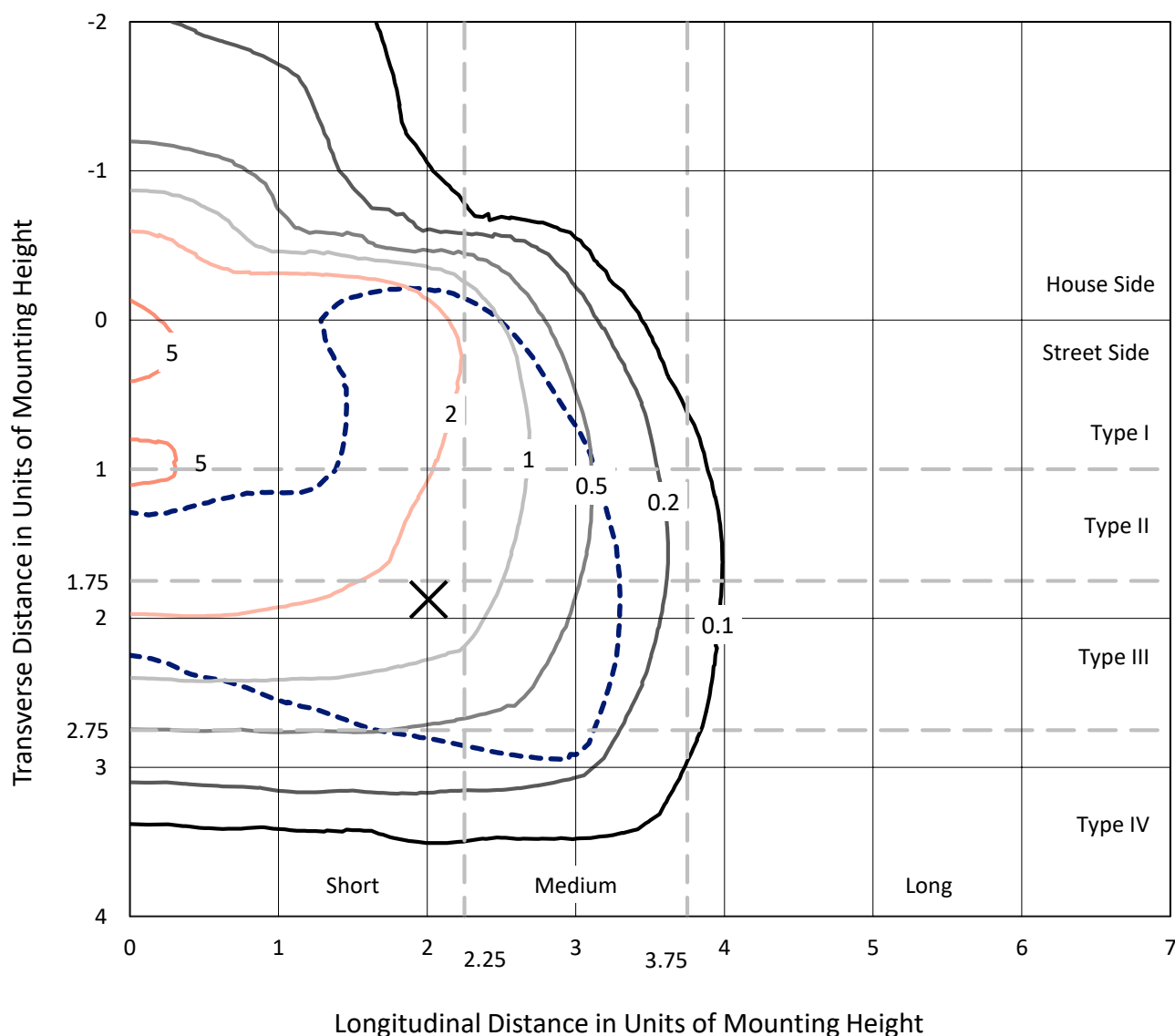


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

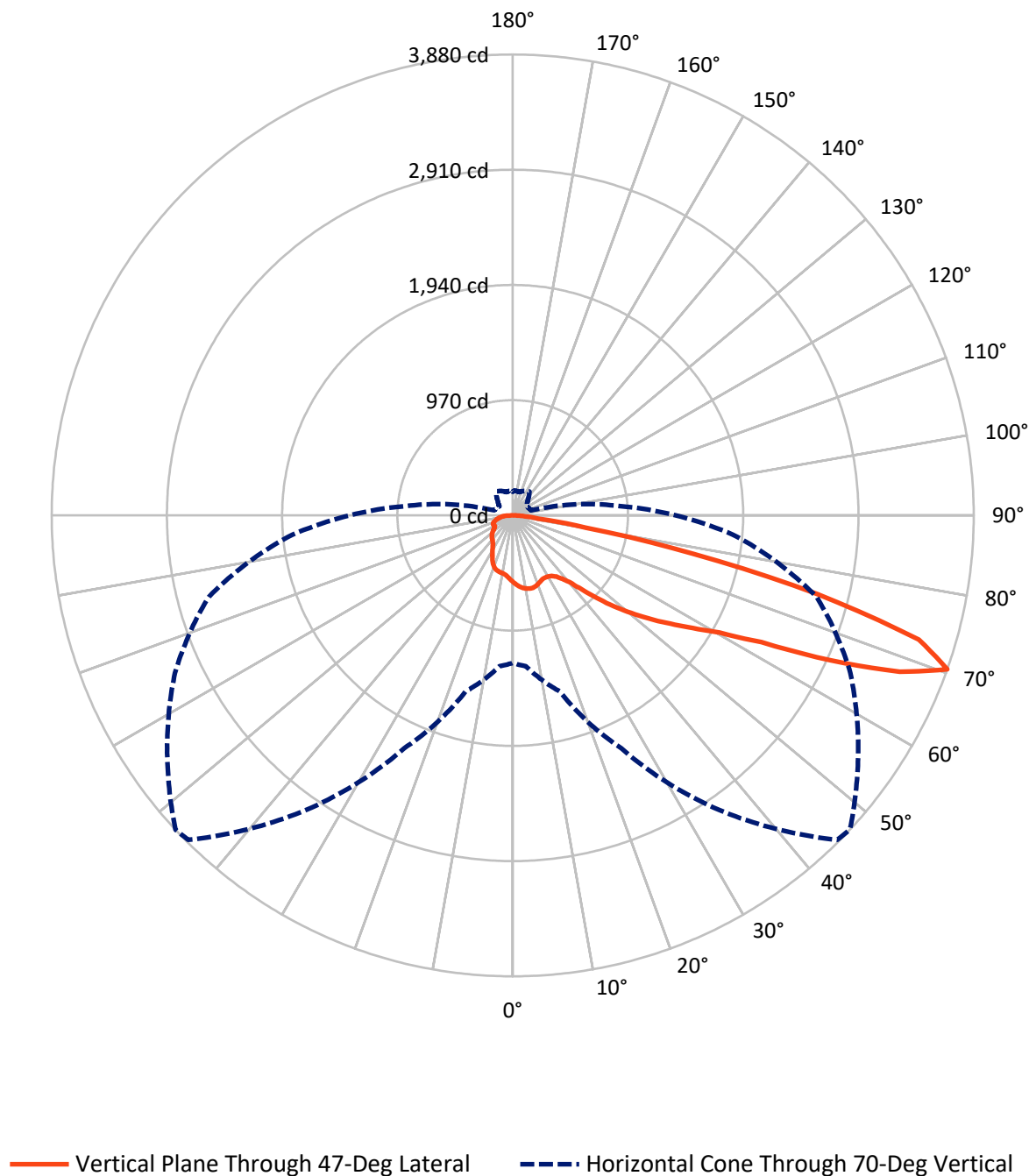


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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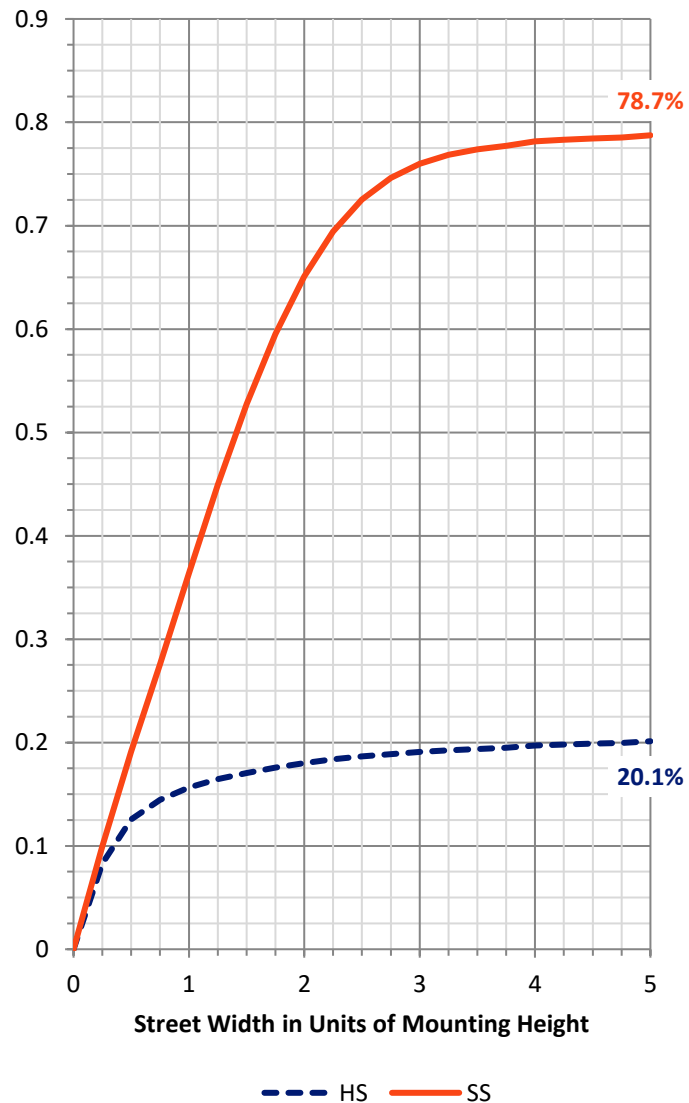
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1008.8	0.0	1008.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	3827.0	0.0	3827.0
	% Fixture	79.1	0.0	79.1
Total	Lumens	4835.8	0.0	4835.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.8	1.1
10°-20°	157.7	3.3
20°-30°	232.9	4.8
30°-40°	338.5	7.0
40°-50°	609.3	12.6
50°-60°	1055.5	21.8
60°-70°	1506.5	31.2
70°-80°	773.3	16.0
80°-90°	108.3	2.2
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°	4835.8	100.0
0°-180°	4835.8	100.0

Coefficient of Utilization



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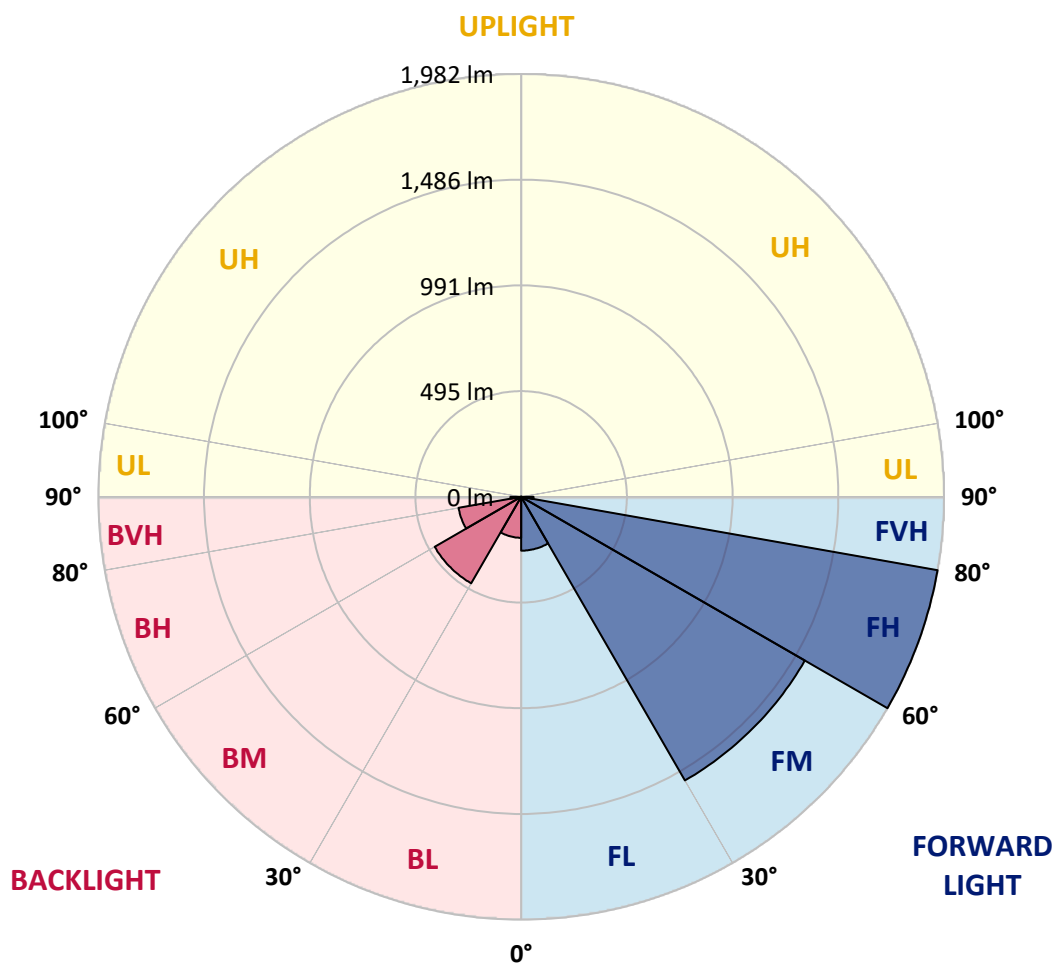
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	252.3	5.2			
FM	(30°-60°)	1535.0	31.7			
FH	(60°-80°)	1981.9	41.0			G2/5000
FVH	(80°-90°)	57.8	1.2			G1/100
BL	(0°-30°)	192.1	4.0	B1/500		
BM	(30°-60°)	468.3	9.7	B1/1000		
BH	(60°-80°)	298.0	6.2	B1/500		G1/500
BVH	(80°-90°)	50.5	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1
2.5°	594.1	592.8	592.4	591.4	590.3	584.4	583.2	579.0	573.1	566.9	560.6
5°	633.0	632.8	630.3	625.6	618.1	605.1	602.0	591.6	577.8	564.5	551.0
7.5°	667.5	665.3	660.4	650.9	637.8	620.1	615.9	601.6	582.5	564.3	546.1
10°	692.6	691.4	680.5	667.7	650.5	631.0	626.0	610.0	589.1	565.9	543.2
12.5°	707.0	704.6	692.1	676.7	656.1	637.1	632.2	615.9	592.4	565.9	539.2
15°	706.1	704.4	691.9	675.0	654.3	637.5	633.0	616.9	591.6	563.4	534.1
17.5°	687.2	687.9	677.3	660.6	643.6	631.0	626.9	612.0	586.9	558.8	527.9
20°	654.3	657.5	650.5	635.7	626.3	617.6	615.0	602.2	579.7	552.0	521.3
22.5°	621.3	624.4	621.5	609.1	607.7	602.6	601.2	591.9	573.4	547.7	517.4
25°	597.1	600.0	599.5	588.6	592.8	592.6	591.4	586.9	572.0	547.7	518.0
27.5°	590.5	591.4	590.5	580.6	586.5	591.2	590.3	589.6	576.2	554.5	526.9
30°	613.1	611.7	604.4	584.4	589.8	596.4	595.5	595.9	588.9	572.4	547.0
32.5°	703.2	696.8	673.8	617.6	603.2	606.7	607.3	615.0	616.1	600.0	578.1
35°	838.0	830.9	801.1	706.5	644.8	632.6	632.6	644.4	651.4	639.5	626.3
37.5°	980.8	973.1	957.0	829.9	732.4	677.5	676.5	684.6	694.8	697.5	700.9
40°	1143.2	1134.8	1139.3	968.1	854.5	755.4	738.7	732.8	760.1	778.3	804.5
42.5°	1320.7	1317.0	1318.6	1122.2	993.5	871.9	848.2	817.8	850.7	883.0	938.2
45°	1485.3	1488.5	1486.9	1287.2	1148.4	1014.0	988.8	930.1	962.2	1017.5	1107.7
47.5°	1629.2	1615.5	1636.7	1467.4	1321.7	1173.0	1142.0	1063.2	1095.9	1164.0	1316.6
50°	1804.0	1802.1	1771.1	1707.8	1531.4	1332.8	1292.1	1200.8	1251.6	1346.4	1579.8
52.5°	1987.8	1953.7	1925.1	1894.8	1753.6	1496.6	1446.6	1338.0	1434.7	1553.8	1900.7
55°	2025.3	2010.1	2045.4	2096.4	1968.0	1666.6	1608.6	1510.0	1640.7	1791.1	2270.7
57.5°	2105.9	2105.7	2178.5	2269.7	2188.7	1847.0	1788.5	1717.7	1872.4	2062.9	2663.6
60°	2160.2	2175.5	2311.1	2487.8	2405.4	2055.5	2001.6	1957.4	2135.9	2366.5	3029.8
62.5°	2188.7	2209.3	2394.3	2576.2	2711.7	2402.5	2348.6	2284.9	2484.7	2699.7	3243.8
65°	2070.4	2111.0	2381.3	2652.6	2979.8	2965.1	2940.8	2828.8	2920.6	2962.9	3166.5
67.5°	1742.8	1784.5	2099.3	2581.4	3171.4	3507.6	3512.6	3321.5	3188.7	2985.5	2662.2
70°	1241.7	1274.4	1534.9	2164.2	3025.5	3862.1	3879.7	3548.5	3135.4	2647.7	1860.0
72.5°	589.6	609.5	856.1	1408.6	2400.9	3538.6	3572.7	3258.6	2666.0	1960.2	1014.7
75°	216.7	222.8	289.4	599.2	1392.5	2609.5	2649.7	2336.0	1767.3	975.9	386.6
77.5°	129.9	133.9	162.4	252.9	547.7	1491.6	1551.1	1270.4	772.4	363.3	190.1
80°	90.8	93.6	116.5	157.5	258.8	568.3	621.3	518.6	307.7	229.9	138.3
82.5°	61.4	62.9	81.8	106.3	172.0	203.0	219.1	230.5	207.5	171.0	87.7
85°	40.2	41.6	55.5	70.2	109.4	104.9	107.3	135.7	151.6	116.3	48.7
87.5°	23.1	24.0	33.5	37.3	53.6	44.5	44.9	71.6	96.9	78.3	29.6
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°	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1	561.1
2.5°	559.0	555.9	549.1	544.8	540.9	540.0	538.3	538.1	537.8	537.8	537.1
5°	546.6	541.4	530.8	524.9	520.0	519.4	519.2	520.4	520.8	521.3	520.6
7.5°	538.5	531.4	518.3	509.8	503.9	502.5	504.9	510.2	513.8	515.2	514.5
10°	533.6	524.9	509.5	500.4	495.5	494.7	497.7	504.1	511.5	514.3	514.1
12.5°	527.9	518.0	501.8	492.2	489.4	490.8	494.7	500.6	508.2	512.7	512.9
15°	522.3	510.8	494.1	485.5	484.4	486.3	490.0	494.5	500.4	504.9	505.4
17.5°	515.4	503.4	486.7	478.0	477.1	478.0	478.3	480.6	484.4	488.6	489.8
20°	508.2	495.9	478.5	469.9	465.6	461.8	457.6	458.1	459.2	463.5	464.5
22.5°	503.0	490.8	472.2	460.2	448.8	437.6	429.2	428.0	428.4	431.9	433.1
25°	503.4	490.6	470.6	449.8	425.1	407.0	395.7	393.9	393.6	396.2	397.8
27.5°	512.7	499.8	476.7	439.2	399.3	372.5	360.4	359.0	357.2	357.9	359.7
30°	533.0	521.0	491.4	428.4	371.3	338.6	326.0	324.7	322.1	320.9	322.4
32.5°	566.5	556.6	513.1	418.0	343.3	309.6	296.8	293.8	292.2	290.7	291.9
35°	622.0	617.8	542.0	406.8	318.6	287.3	275.8	271.1	268.7	271.3	273.1
37.5°	709.1	711.4	579.9	389.2	299.5	272.4	262.8	257.5	253.8	256.0	258.1
40°	832.3	833.9	621.8	364.2	283.0	263.8	253.4	248.4	243.5	239.8	239.5
42.5°	994.3	977.6	662.9	337.2	264.0	258.3	246.8	240.7	233.2	222.8	220.7
45°	1186.2	1127.7	694.3	306.0	242.5	251.8	239.5	231.1	219.3	207.9	206.8
47.5°	1407.4	1288.8	709.5	273.8	222.6	242.1	230.5	217.1	202.3	196.6	196.0
50°	1677.4	1480.0	716.8	242.5	205.2	229.3	217.7	201.9	189.3	188.3	187.5
52.5°	1984.9	1710.1	719.3	216.9	190.7	212.9	207.0	191.7	181.8	182.8	182.8
55°	2306.8	1947.8	687.2	198.3	177.6	196.0	200.0	187.7	179.5	183.2	184.6
57.5°	2602.2	2158.3	586.5	184.0	165.2	183.0	197.4	191.5	185.8	201.1	202.1
60°	2829.0	2282.8	438.0	171.0	156.0	178.5	204.2	205.9	207.3	243.7	248.7
62.5°	2876.6	2241.4	301.1	160.9	151.8	182.4	216.7	216.9	215.2	240.7	243.7
65°	2658.5	1979.6	219.1	155.2	148.3	189.1	227.3	222.4	211.5	230.7	225.2
67.5°	2111.2	1491.4	182.4	151.0	143.0	188.7	238.5	227.3	209.3	226.0	216.9
70°	1370.4	901.7	162.4	147.5	136.9	179.7	245.2	226.8	203.2	210.4	199.5
72.5°	668.6	403.2	148.9	142.4	130.6	167.2	245.0	222.6	196.8	196.4	190.5
75°	261.5	184.6	136.7	134.6	119.7	153.2	238.3	216.5	189.3	181.8	179.7
77.5°	153.2	131.7	121.2	123.0	106.8	139.1	228.7	205.9	179.0	170.1	167.7
80°	111.6	98.6	103.2	106.3	91.2	124.9	215.8	193.0	167.5	172.0	168.7
82.5°	71.6	63.5	83.8	86.9	76.1	110.6	201.6	179.3	151.4	137.4	134.1
85°	36.5	40.2	62.4	66.1	58.6	90.8	184.4	161.1	133.0	114.2	116.3
87.5°	20.4	27.6	39.8	44.5	41.4	69.9	149.5	133.0	108.5	88.2	77.7
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)