

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: P200215

Luminaire Tested: **GAP-AF-01-LED-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200215
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: GAP-AF-01-LED-U-T4W
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6457.9 lumens
Efficiency: N/A
Efficacy: 109.5 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): 59
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



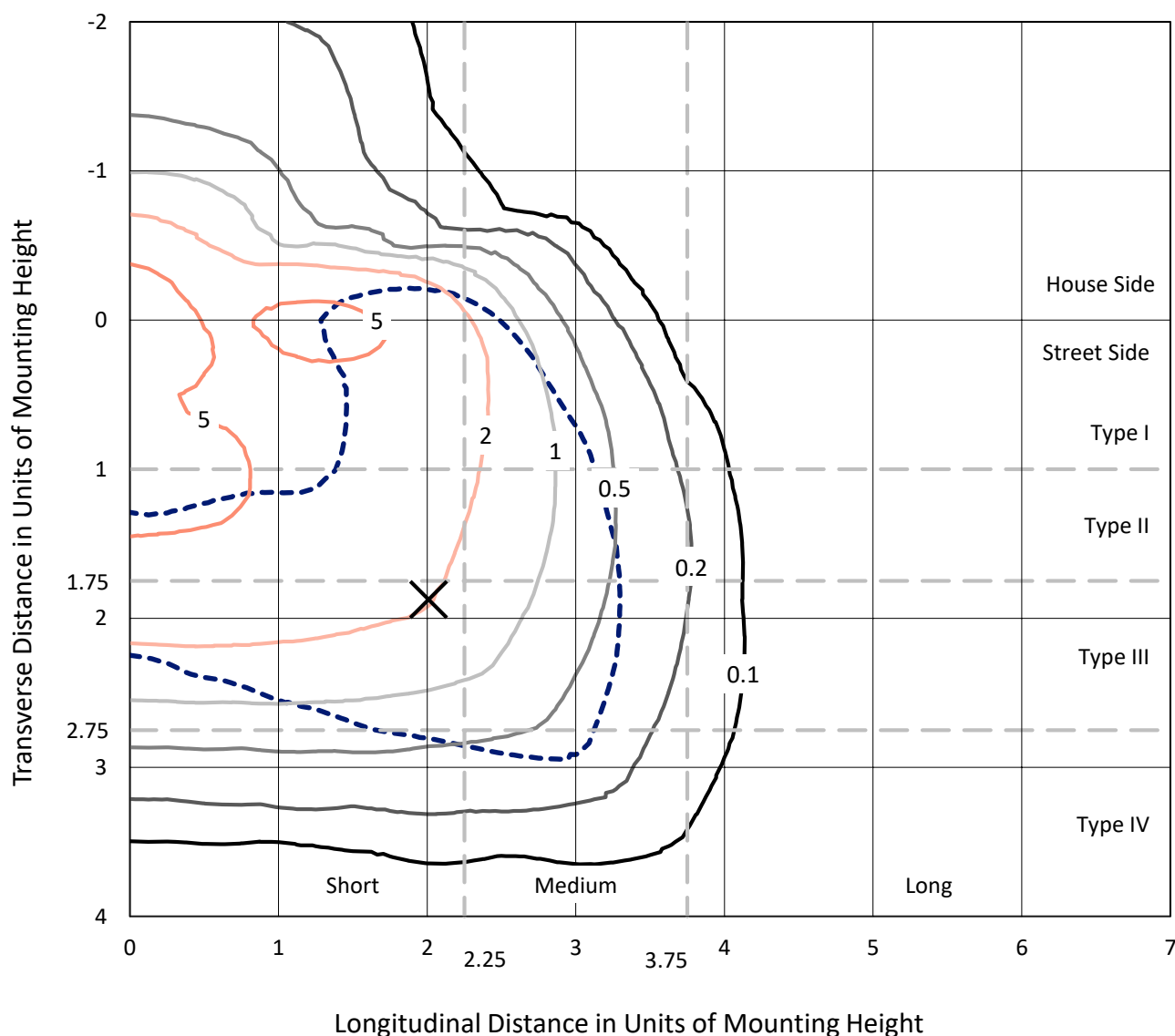
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

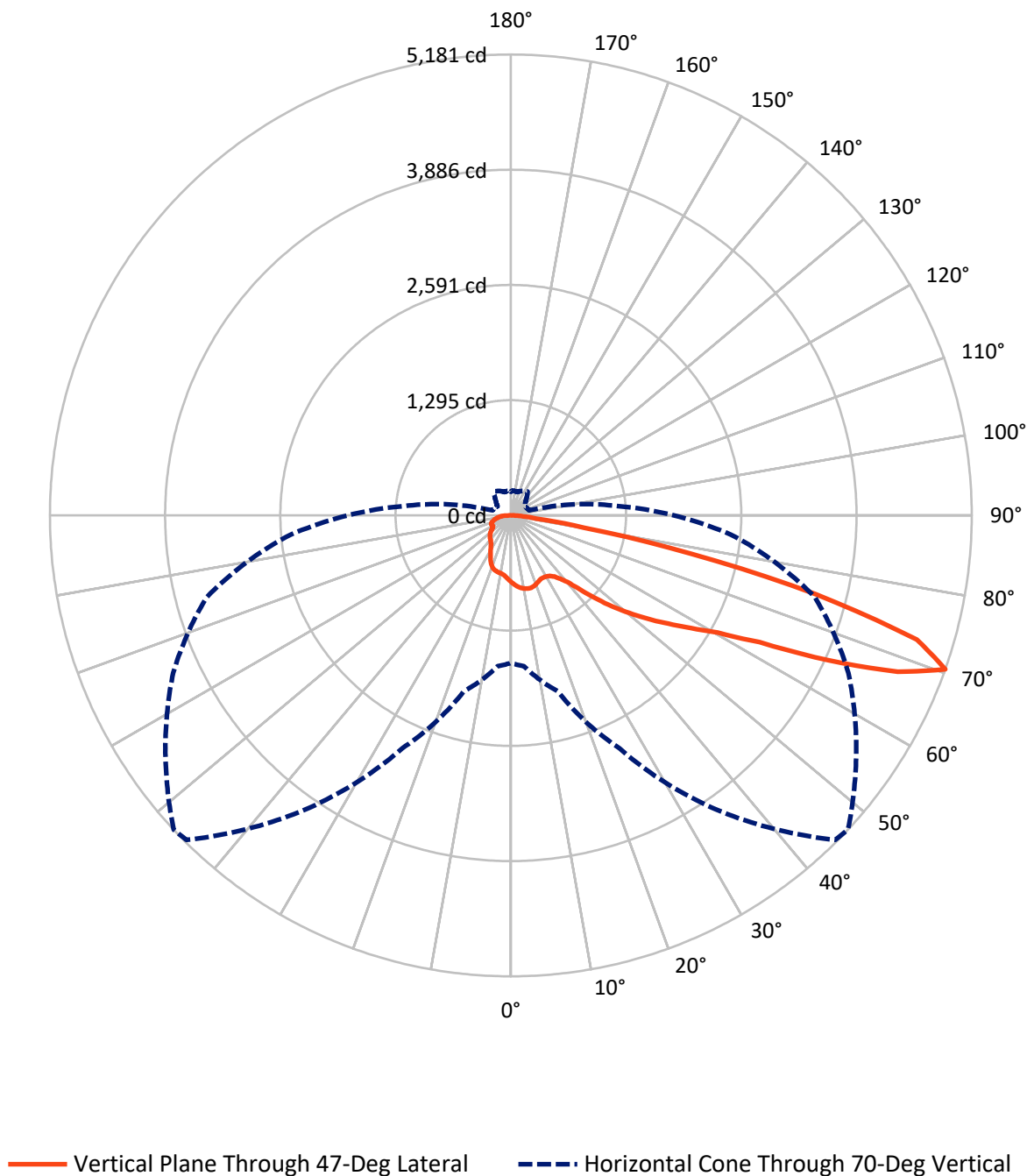


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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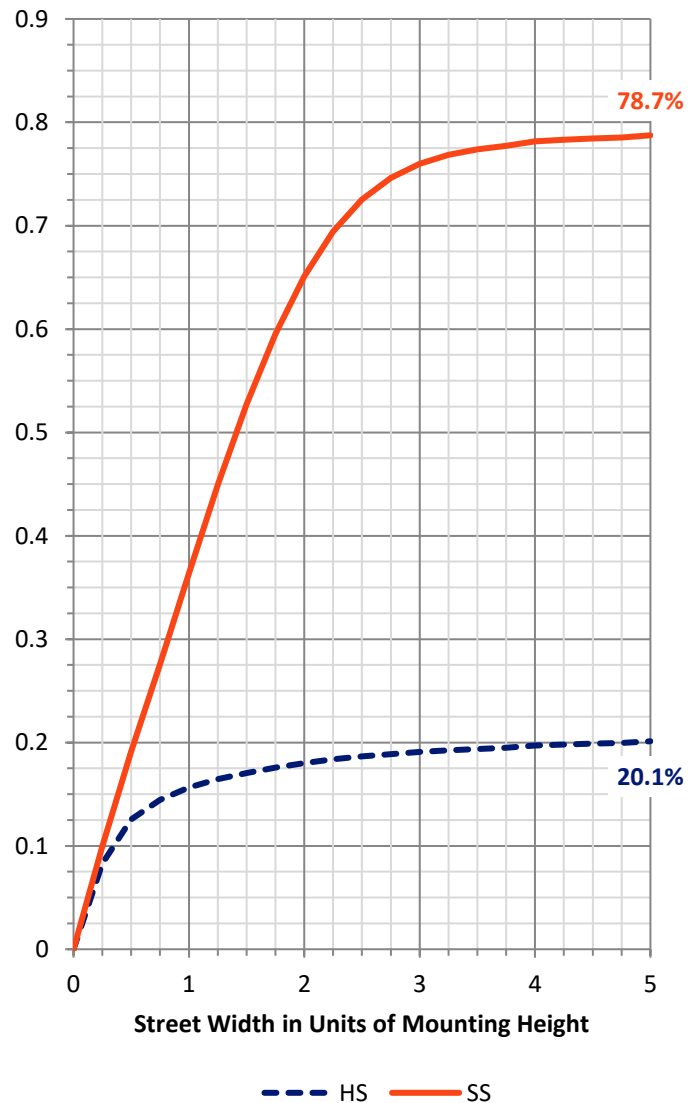
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1347.2	0.0	1347.2
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	5110.6	0.0	5110.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	6457.9	0.0	6457.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	1.1
10°-20°	210.6	3.3
20°-30°	311.1	4.8
30°-40°	452.1	7.0
40°-50°	813.6	12.6
50°-60°	1409.5	21.8
60°-70°	2011.8	31.2
70°-80°	1032.8	16.0
80°-90°	144.6	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°	6457.9	100.0
0°-180°	6457.9	100.0

Coefficient of Utilization



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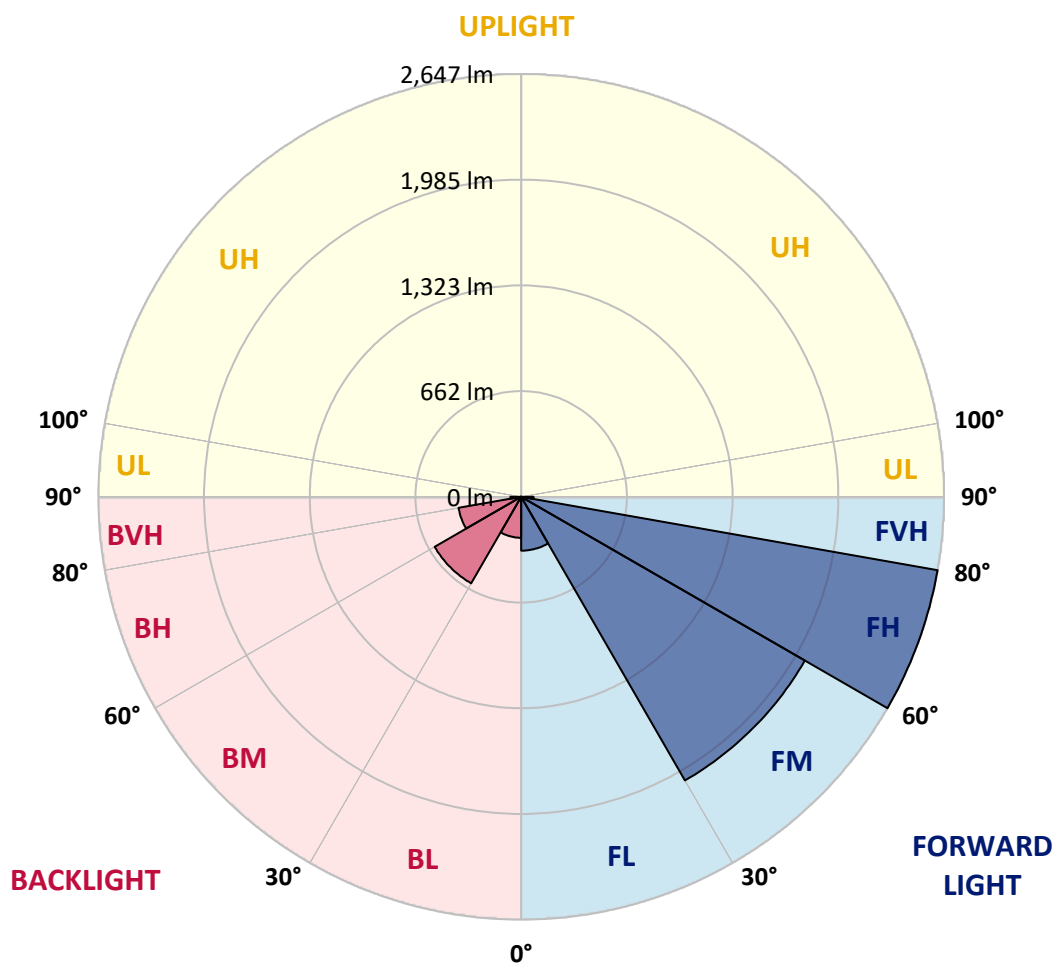
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	337.0	5.2			
FM	(30°-60°)	2049.9	31.7			
FH	(60°-80°)	2646.6	41.0			G2/5000
FVH	(80°-90°)	77.2	1.2			G1/100
BL	(0°-30°)	256.5	4.0	B1/500		
BM	(30°-60°)	625.4	9.7	B1/1000		
BH	(60°-80°)	397.9	6.2	B1/500		G1/500
BVH	(80°-90°)	67.4	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°	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3
2.5°	793.3	791.8	791.2	789.8	788.3	780.4	778.9	773.1	765.4	757.2	748.7
5°	845.5	845.2	841.7	835.4	825.3	808.0	803.9	790.1	771.6	753.7	735.8
7.5°	891.3	888.5	881.9	869.3	851.7	828.2	822.6	803.3	778.0	753.4	729.2
10°	925.0	923.4	908.9	891.6	868.7	842.6	836.1	814.7	786.8	755.6	725.5
12.5°	944.1	941.0	924.3	903.6	876.3	850.8	844.2	822.6	791.2	755.6	720.1
15°	942.9	940.6	924.0	901.4	873.7	851.4	845.5	823.8	790.1	752.5	713.2
17.5°	917.7	918.6	904.5	882.2	859.6	842.6	837.3	817.1	783.9	746.1	705.0
20°	873.7	878.1	868.7	848.9	836.4	824.7	821.2	804.3	774.2	737.0	696.2
22.5°	829.7	833.8	830.0	813.5	811.5	804.7	802.7	790.4	765.7	731.4	690.9
25°	797.4	801.2	800.6	786.0	791.8	791.5	789.8	783.9	763.7	731.4	691.8
27.5°	788.6	789.8	788.6	775.4	783.3	789.5	788.3	787.4	769.5	740.5	703.8
30°	818.8	816.8	807.1	780.4	787.7	796.5	795.1	795.9	786.3	764.3	730.5
32.5°	939.1	930.6	899.8	824.7	805.6	810.3	810.9	821.2	822.9	801.2	771.9
35°	1119.1	1109.7	1069.8	943.5	861.1	844.9	844.9	860.5	869.9	854.0	836.4
37.5°	1309.8	1299.5	1278.1	1108.1	978.0	904.8	903.3	914.2	927.8	931.5	935.9
40°	1526.5	1515.6	1521.5	1292.8	1141.1	1008.8	986.5	978.7	1015.1	1039.3	1074.5
42.5°	1763.8	1758.8	1761.0	1498.6	1326.8	1164.3	1132.6	1092.1	1136.1	1179.2	1252.9
45°	1983.4	1987.8	1985.6	1718.9	1533.5	1354.1	1320.5	1242.0	1285.0	1358.8	1479.2
47.5°	2175.7	2157.5	2185.7	1959.6	1765.1	1566.4	1525.0	1419.8	1463.4	1554.6	1758.1
50°	2409.2	2406.6	2365.2	2280.7	2045.0	1779.8	1725.5	1603.6	1671.4	1798.0	2109.7
52.5°	2654.5	2608.9	2570.9	2530.4	2341.8	1998.5	1931.8	1786.7	1915.9	2075.2	2538.2
55°	2704.8	2684.3	2731.5	2799.6	2628.1	2225.6	2148.0	2016.4	2191.1	2391.9	3032.4
57.5°	2812.2	2811.9	2909.3	3030.9	2922.8	2466.6	2388.4	2293.9	2500.5	2754.7	3557.1
60°	2884.8	2905.2	3086.1	3322.1	3212.2	2745.0	2673.1	2613.9	2852.4	3160.3	4046.0
62.5°	2922.8	2950.5	3197.4	3440.3	3621.2	3208.4	3136.5	3051.3	3318.0	3605.2	4331.9
65°	2764.7	2819.2	3180.1	3542.4	3979.4	3959.6	3927.2	3777.7	3900.2	3956.8	4228.6
67.5°	2327.4	2383.1	2803.4	3447.1	4235.1	4684.1	4691.0	4435.6	4258.3	3987.0	3555.3
70°	1658.2	1701.9	2049.7	2890.1	4040.3	5157.5	5181.1	4738.7	4187.0	3535.7	2483.9
72.5°	787.4	814.1	1143.2	1881.0	3206.2	4725.5	4771.1	4351.7	3560.3	2617.7	1355.1
75°	289.4	297.6	386.5	800.3	1859.6	3484.9	3538.6	3119.5	2360.2	1303.2	516.2
77.5°	173.4	178.8	216.8	337.8	731.4	1991.9	2071.4	1696.6	1031.4	485.1	253.9
80°	121.3	125.0	155.5	210.2	345.6	759.0	829.7	692.4	410.9	307.0	184.7
82.5°	82.0	83.9	109.4	142.0	229.7	271.2	292.5	307.9	277.1	228.4	117.2
85°	53.7	55.6	74.2	93.6	146.1	140.1	143.3	181.3	202.3	155.2	65.1
87.5°	30.8	32.0	44.6	49.9	71.6	59.3	60.0	95.5	129.4	104.6	39.6
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°	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3
2.5°	746.4	742.4	733.3	727.6	722.3	721.1	718.8	718.5	718.2	718.2	717.3
5°	729.9	722.9	708.8	700.9	694.4	693.7	693.4	695.0	695.6	696.2	695.3
7.5°	719.1	709.7	692.1	680.9	673.0	671.1	674.2	681.5	686.2	688.0	687.1
10°	712.6	700.9	680.5	668.3	661.6	660.7	664.8	673.3	683.0	686.8	686.5
12.5°	705.0	691.8	670.1	657.2	653.5	655.4	660.7	668.6	678.6	684.6	684.9
15°	697.4	682.1	659.8	648.4	646.9	649.4	654.5	660.4	668.3	674.2	674.8
17.5°	688.3	672.4	650.1	638.4	637.2	638.4	638.7	641.9	646.9	652.5	654.1
20°	678.6	662.3	639.0	627.4	621.7	616.7	611.1	611.7	613.3	618.9	620.2
22.5°	671.7	655.4	630.5	614.5	599.4	584.4	573.1	571.5	572.1	576.8	578.4
25°	672.4	655.1	628.4	600.7	567.7	543.5	528.5	525.9	525.6	529.1	531.3
27.5°	684.6	667.3	636.5	586.6	533.2	497.4	481.3	479.5	476.9	477.8	480.4
30°	712.0	695.9	656.3	572.1	495.8	452.1	435.5	433.5	430.2	428.5	430.5
32.5°	756.6	743.4	685.3	558.3	458.4	413.5	396.5	392.4	390.3	388.3	389.8
35°	830.7	825.0	723.8	543.2	425.4	383.6	368.3	361.9	358.7	362.2	364.8
37.5°	946.9	950.1	774.5	519.7	400.0	363.9	351.0	343.7	339.0	341.9	344.6
40°	1111.5	1113.8	830.3	486.3	378.0	352.2	338.4	331.7	325.2	320.2	319.9
42.5°	1327.7	1305.4	885.4	450.2	352.5	344.9	329.6	321.4	311.4	297.6	294.7
45°	1584.0	1505.9	927.1	408.8	324.0	336.1	319.9	308.5	292.8	277.7	276.2
47.5°	1879.5	1721.1	947.6	365.7	297.2	323.3	307.9	290.0	270.2	262.7	261.7
50°	2240.1	1976.5	957.3	324.0	273.9	306.4	290.6	269.5	252.9	251.3	250.4
52.5°	2650.8	2283.7	960.4	289.7	254.8	284.4	276.5	256.0	242.8	244.1	244.1
55°	3080.5	2601.1	917.7	264.8	237.2	261.7	267.1	250.7	239.7	244.8	246.6
57.5°	3475.2	2882.3	783.3	245.7	220.5	244.4	263.6	255.7	248.2	268.6	269.9
60°	3778.0	3048.5	585.0	228.4	208.3	238.4	272.7	274.9	276.8	325.5	332.0
62.5°	3841.5	2993.2	402.1	214.9	202.6	243.5	289.4	289.7	287.4	321.4	325.5
65°	3550.3	2643.5	292.5	207.4	197.9	252.6	303.5	296.9	282.4	308.2	300.6
67.5°	2819.5	1991.6	243.5	201.7	191.0	252.0	318.5	303.5	279.6	302.0	289.7
70°	1830.1	1204.2	216.8	197.0	182.8	240.0	327.3	302.9	271.5	280.9	266.4
72.5°	892.9	538.5	198.9	190.1	174.4	223.4	327.0	297.2	263.0	262.4	254.5
75°	349.3	246.6	182.5	179.7	159.9	204.5	318.2	289.1	252.9	242.8	240.0
77.5°	204.5	175.9	161.8	164.3	142.6	185.7	305.4	274.9	239.1	227.2	224.0
80°	148.9	131.7	137.9	142.0	121.9	166.8	288.1	257.6	223.7	229.7	225.3
82.5°	95.5	84.8	111.8	115.9	101.5	147.7	269.2	239.4	202.0	183.5	179.1
85°	48.7	53.7	83.3	88.3	78.3	121.3	246.3	215.2	177.5	152.7	155.2
87.5°	27.3	36.7	53.1	59.3	55.3	93.3	199.8	177.5	144.8	117.8	103.7
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)