

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: P318965

Luminaire Tested: **GAN-SA1C-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318965
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-SA1C-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6150 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

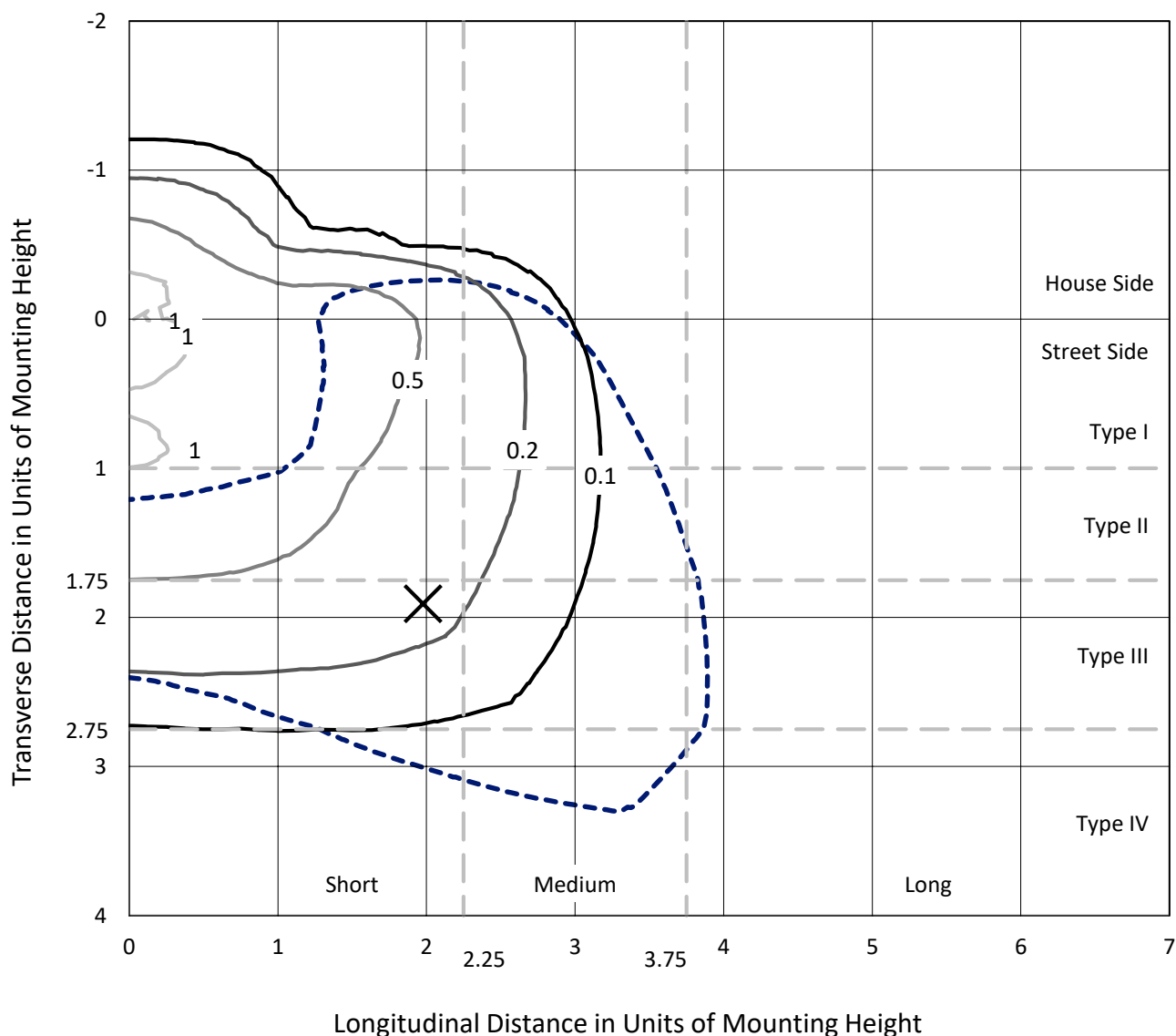
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

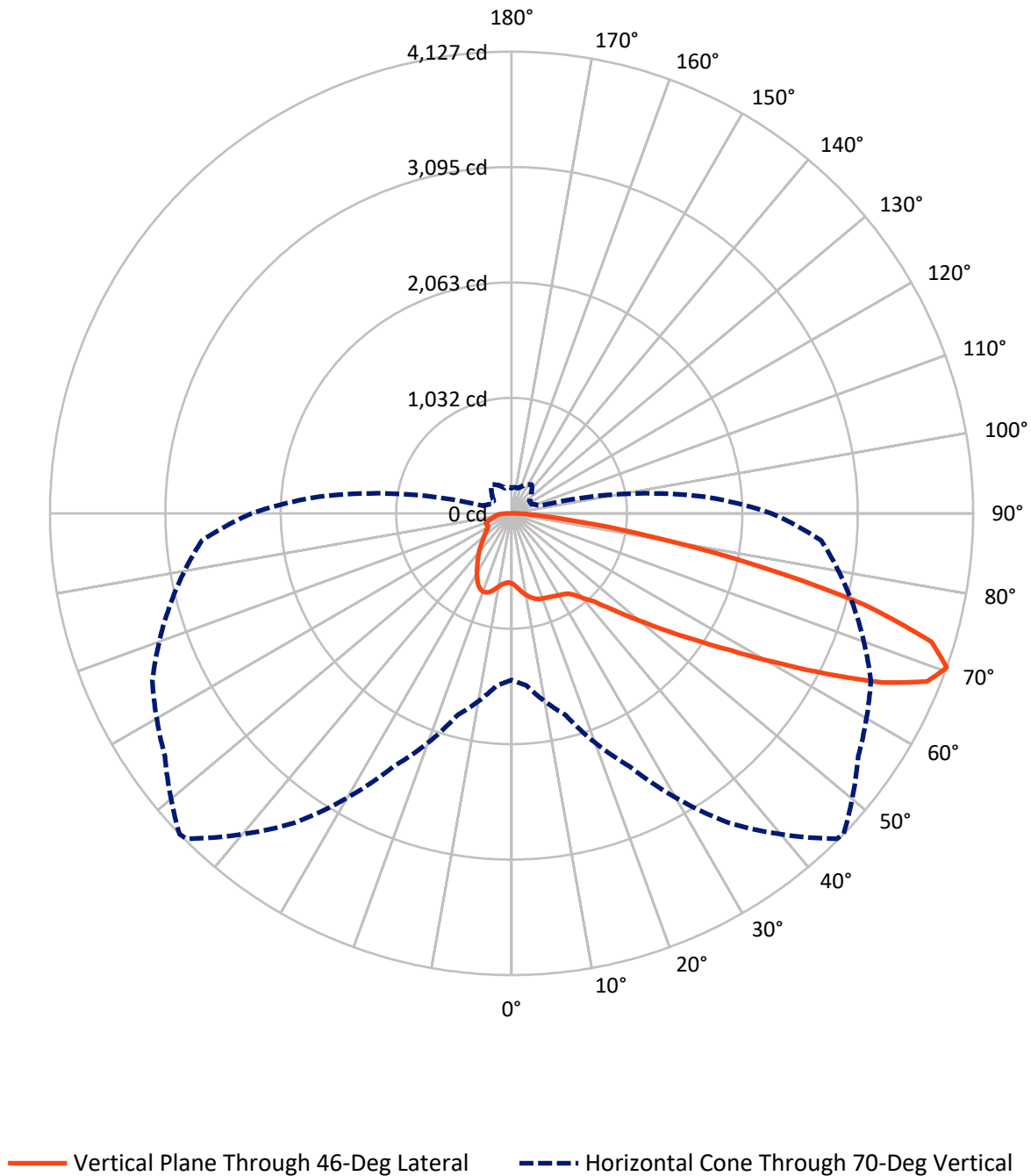
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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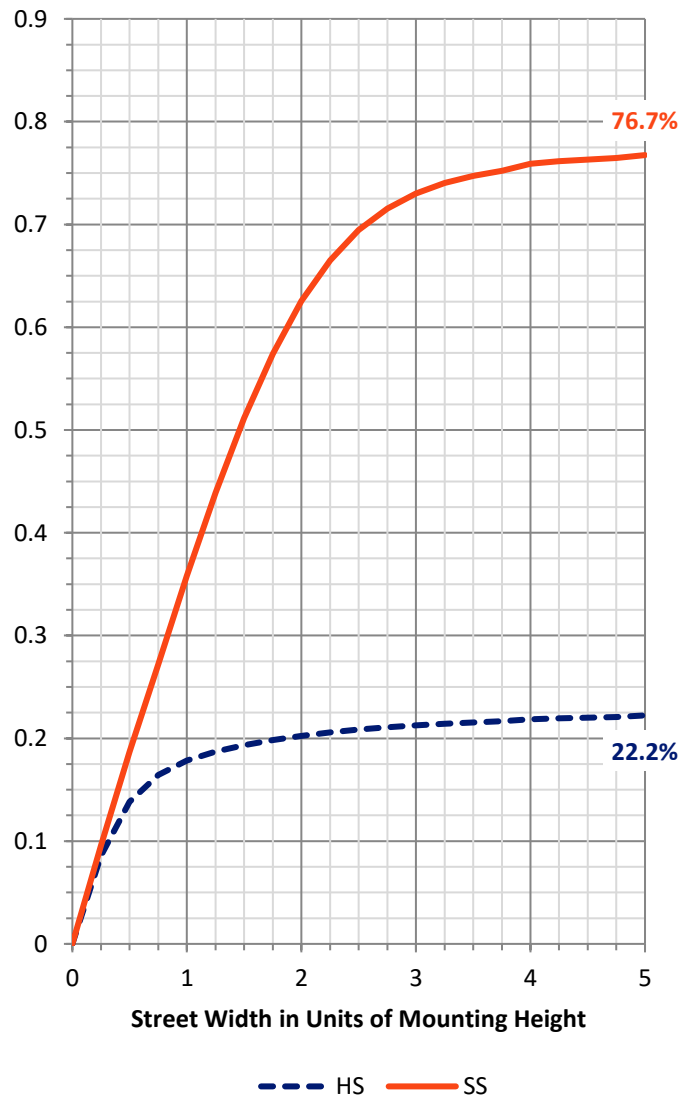
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1409.6	0.0	1409.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4740.4	0.0	4740.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	6150.0	0.0	6150.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.0
10°-20°	212.8	3.5
20°-30°	354.8	5.8
30°-40°	503.5	8.2
40°-50°	740.7	12.0
50°-60°	1254.3	20.4
60°-70°	1780.5	29.0
70°-80°	1081.7	17.6
80°-90°	157.9	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°	6150.0	100.0
0°-180°	6150.0	100.0

Coefficient of Utilization



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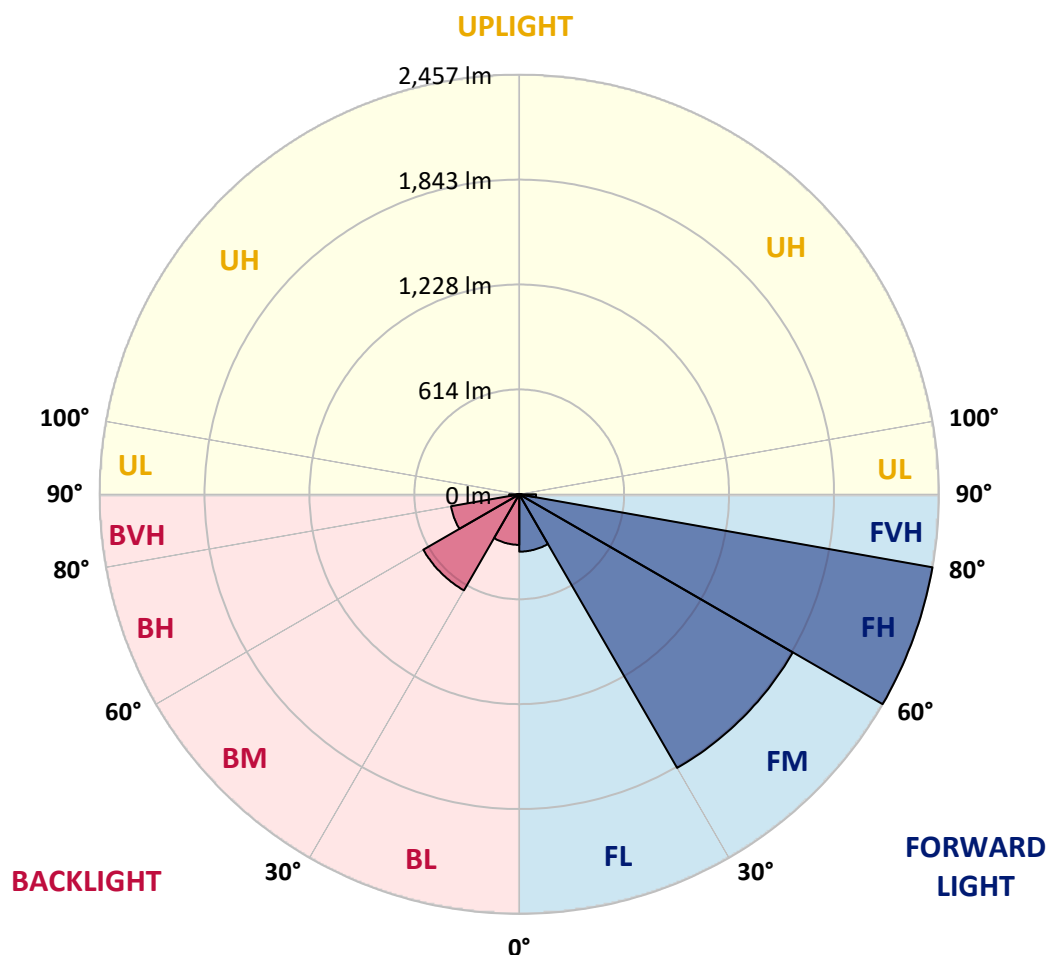
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	335.6	5.5			
FM	(30°-60°)	1849.6	30.1			
FH	(60°-80°)	2456.9	39.9			G2/5000
FVH	(80°-90°)	98.3	1.6			G1/100
BL	(0°-30°)	295.9	4.8	B1/500		
BM	(30°-60°)	648.9	10.6	B1/1000		
BH	(60°-80°)	405.2	6.6	B1/500		G1/500
BVH	(80°-90°)	59.5	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°	46°	55°	65°	75°	85°
0°	626.6	626.6	626.6	626.6	626.6	626.6	626.6	626.6	626.6	626.6	626.6
2.5°	657.9	658.3	659.2	657.1	651.2	649.5	648.9	642.8	638.8	632.9	627.8
5°	710.5	711.0	709.7	703.8	690.8	681.1	680.2	666.3	653.7	640.2	630.1
7.5°	765.5	766.1	762.1	751.0	732.6	715.8	714.8	695.8	676.7	656.2	641.1
10°	814.1	811.6	805.0	789.5	767.8	747.2	746.3	726.5	704.4	679.8	659.6
12.5°	846.5	844.4	836.0	817.0	793.3	774.3	772.6	754.3	732.9	705.9	681.7
15°	864.4	865.9	854.5	833.0	809.9	793.9	792.4	779.4	760.2	733.1	705.3
17.5°	866.7	868.0	857.0	835.8	816.8	805.9	805.3	796.6	782.7	756.6	727.6
20°	853.2	854.1	845.0	827.6	815.1	811.8	811.6	807.8	797.5	774.3	746.1
22.5°	833.7	834.3	827.8	815.1	810.9	816.2	817.7	816.2	808.8	787.2	760.6
25°	828.8	828.4	821.7	808.8	812.4	823.6	825.5	826.1	821.0	802.1	779.2
27.5°	852.2	850.7	837.9	817.2	819.6	833.0	835.6	841.7	838.5	821.9	800.2
30°	919.7	917.2	890.9	849.2	837.9	844.8	848.0	857.7	858.3	844.4	828.2
32.5°	1033.8	1030.7	983.5	909.0	868.8	856.8	859.8	874.3	882.1	871.3	853.9
35°	1178.0	1174.4	1112.5	1010.7	920.6	879.8	881.9	893.4	909.0	893.9	870.7
37.5°	1328.3	1319.6	1260.1	1130.2	1002.9	928.8	928.8	930.3	937.6	906.1	890.5
40°	1477.7	1469.1	1415.2	1270.8	1109.4	1006.0	1001.2	968.6	962.7	935.5	930.3
42.5°	1616.6	1614.1	1582.3	1429.7	1234.4	1082.0	1075.3	1019.9	1021.2	1004.4	1004.6
45°	1764.4	1764.4	1738.5	1590.1	1380.0	1204.1	1197.4	1115.9	1128.5	1120.7	1139.5
47.5°	1885.0	1888.7	1885.2	1757.2	1549.5	1359.2	1347.0	1248.9	1284.3	1311.0	1365.5
50°	2008.1	2014.0	2014.6	1940.5	1754.3	1543.6	1529.7	1425.5	1504.4	1581.0	1688.2
52.5°	2186.8	2200.0	2147.2	2123.4	2005.1	1762.5	1748.8	1652.6	1784.4	1891.9	2076.5
55°	2352.4	2340.8	2303.2	2317.9	2273.7	2011.7	2001.3	1916.9	2096.3	2236.0	2475.7
57.5°	2442.1	2441.2	2479.1	2542.2	2563.3	2318.9	2310.3	2228.2	2448.0	2553.0	2850.6
60°	2547.3	2548.8	2642.6	2786.0	2872.7	2701.6	2697.8	2635.5	2789.5	2848.9	3144.6
62.5°	2562.0	2588.6	2750.2	2996.9	3162.3	3148.6	3157.0	3002.3	3095.1	3085.0	3364.1
65°	2392.6	2427.5	2720.1	3060.6	3450.2	3637.5	3645.3	3371.3	3336.1	3286.9	3442.6
67.5°	2045.3	2097.1	2414.9	2921.9	3545.1	3998.9	4009.8	3657.3	3536.1	3355.3	3253.6
70°	1488.4	1545.9	1865.8	2495.5	3375.9	4114.4	4126.9	3783.8	3543.7	3160.6	2777.6
72.5°	899.1	944.2	1207.9	1837.2	2849.3	3904.0	3926.1	3623.4	3235.3	2677.2	2051.0
75°	394.8	424.3	584.0	1058.7	2039.9	3230.1	3257.6	3101.5	2628.8	1945.6	1212.3
77.5°	168.2	176.6	239.5	459.9	1153.2	2207.2	2245.1	2266.1	1783.5	1058.7	512.3
80°	104.8	108.2	135.5	208.2	539.6	1239.7	1280.5	1333.3	885.7	389.2	178.9
82.5°	63.8	67.6	90.1	125.9	281.0	562.0	581.5	618.8	343.7	168.2	92.6
85°	38.3	41.0	55.1	79.6	160.0	221.0	220.8	244.1	161.9	108.2	48.8
87.5°	18.3	20.4	29.5	41.3	80.6	82.9	77.7	88.0	98.3	70.9	24.6
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°	626.6	626.6	626.6	626.6	626.6	626.6	626.6	626.6	626.6	626.6	626.6
2.5°	626.1	625.3	622.6	620.5	620.0	618.8	617.7	618.4	619.2	619.4	619.4
5°	625.9	623.6	620.0	618.6	620.5	623.0	626.1	630.4	632.9	634.8	636.0
7.5°	636.0	631.6	627.6	626.8	630.6	637.3	644.5	653.3	659.4	663.6	664.4
10°	652.9	647.4	643.4	644.2	651.0	660.7	670.8	682.1	691.4	697.1	697.5
12.5°	672.2	667.0	663.2	666.8	677.9	689.7	700.2	710.1	718.5	724.2	724.2
15°	694.5	690.8	686.3	694.5	709.7	720.2	724.6	729.5	734.1	738.3	737.5
17.5°	716.0	712.4	710.1	719.8	735.6	740.4	737.5	733.9	733.9	736.2	736.6
20°	734.5	731.4	732.9	742.3	750.5	745.5	734.5	723.2	718.5	719.8	721.1
22.5°	750.7	749.3	753.7	758.1	752.2	734.5	714.3	699.0	693.3	692.9	693.3
25°	769.7	769.5	774.9	766.9	740.8	708.2	681.1	666.1	663.0	665.5	669.7
27.5°	793.3	795.6	798.3	769.1	717.7	668.4	640.9	630.6	633.7	639.8	643.8
30°	823.4	829.7	823.8	763.8	684.4	623.0	596.7	593.7	602.4	611.0	615.2
32.5°	852.6	862.5	848.2	750.1	641.5	574.8	554.4	553.5	564.1	572.5	578.4
35°	876.2	895.8	866.5	723.0	591.8	530.4	515.4	509.8	513.5	523.4	530.2
37.5°	906.9	939.5	879.1	681.5	538.0	493.8	476.3	463.2	459.9	463.9	467.2
40°	963.1	1006.2	885.0	623.6	485.3	457.1	439.5	420.3	407.0	397.4	397.6
42.5°	1054.9	1093.2	881.2	553.3	436.7	421.4	401.4	379.3	357.8	335.9	334.2
45°	1203.9	1222.4	869.9	478.8	394.0	383.9	365.2	343.1	314.4	289.6	287.3
47.5°	1442.3	1401.3	852.2	413.8	356.3	352.1	334.9	309.4	279.1	259.1	257.4
50°	1767.5	1659.5	843.6	362.0	323.1	324.3	310.2	283.3	254.7	239.9	238.3
52.5°	2156.5	1960.3	860.2	322.0	296.3	300.8	290.2	265.0	241.0	229.4	227.7
55°	2559.9	2271.8	878.1	293.0	271.1	279.7	276.1	255.3	233.6	222.9	221.4
57.5°	2905.3	2504.4	842.3	269.4	248.6	262.0	265.2	249.2	229.8	220.2	218.5
60°	3122.7	2598.0	748.4	247.3	230.7	247.9	258.9	247.5	231.3	230.5	229.2
62.5°	3225.9	2589.8	607.6	229.8	219.5	241.8	263.5	257.0	248.1	255.7	256.4
65°	3179.5	2466.1	452.5	218.3	211.5	244.1	277.4	274.9	253.0	260.6	261.6
67.5°	2874.8	2170.8	335.1	208.2	202.7	250.7	302.7	280.8	243.5	249.0	245.6
70°	2323.6	1721.0	258.5	196.8	193.6	249.8	314.0	277.2	233.2	234.5	225.4
72.5°	1602.3	1173.6	210.3	186.3	180.6	227.7	306.0	268.3	224.6	214.9	202.9
75°	871.3	629.9	178.7	175.3	157.6	199.9	291.3	262.0	216.8	203.9	197.2
77.5°	342.9	261.4	155.1	160.4	137.9	176.6	274.9	250.0	206.0	189.2	185.8
80°	140.0	133.4	128.6	138.7	118.5	154.5	255.1	235.9	193.2	175.5	168.8
82.5°	79.3	82.9	100.0	109.4	96.2	142.3	245.6	224.6	177.8	157.2	149.2
85°	40.6	48.6	69.7	78.5	70.7	121.0	226.3	196.6	142.7	120.4	121.0
87.5°	19.6	27.2	44.0	49.2	45.9	87.6	169.0	142.5	111.1	88.0	85.2
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)