

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: P318975

Luminaire Tested: **GAN-SA1D-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318975
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-SA1D-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6746 lumens
Efficiency: N/A
Efficacy: 100.7 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

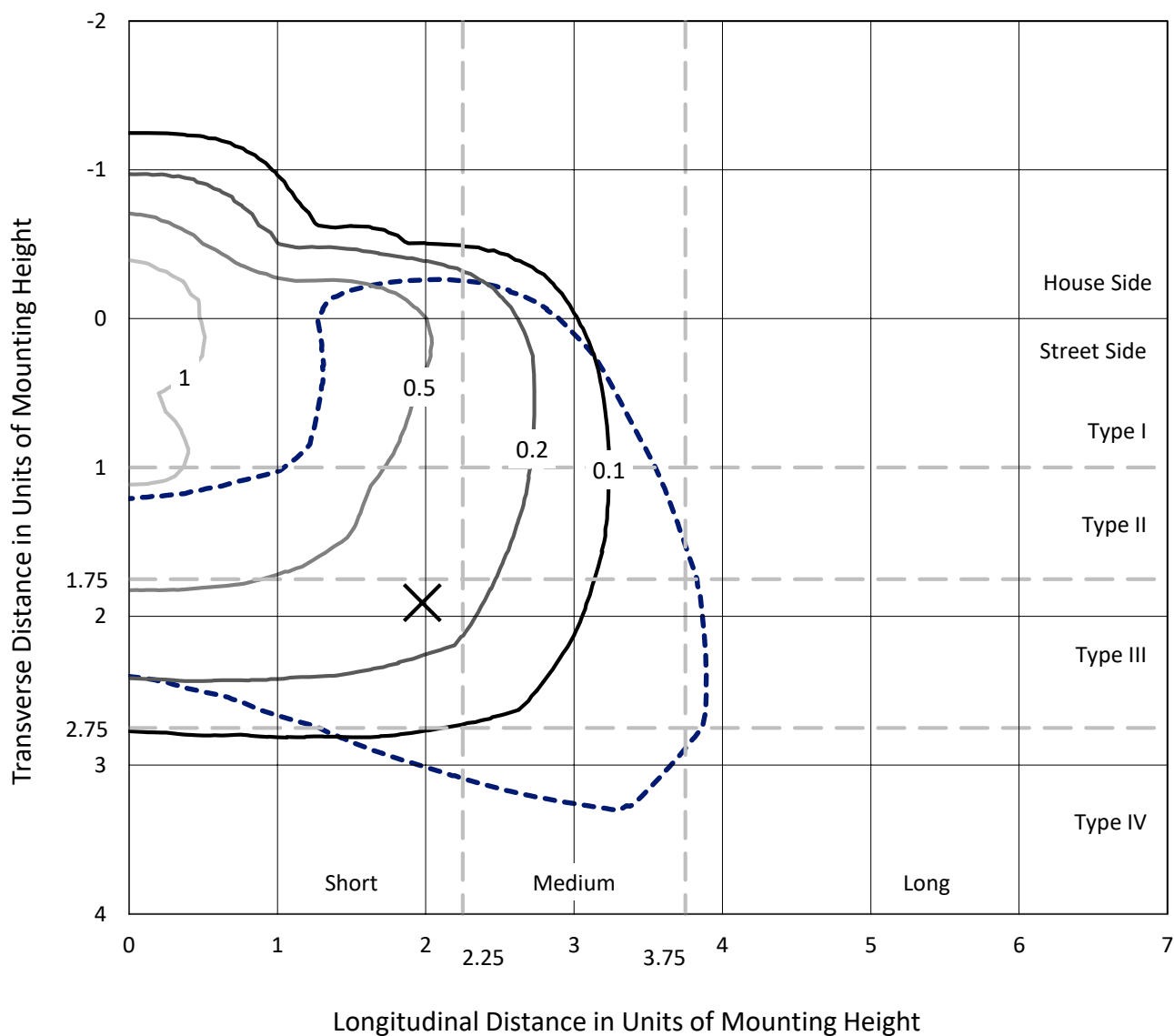
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

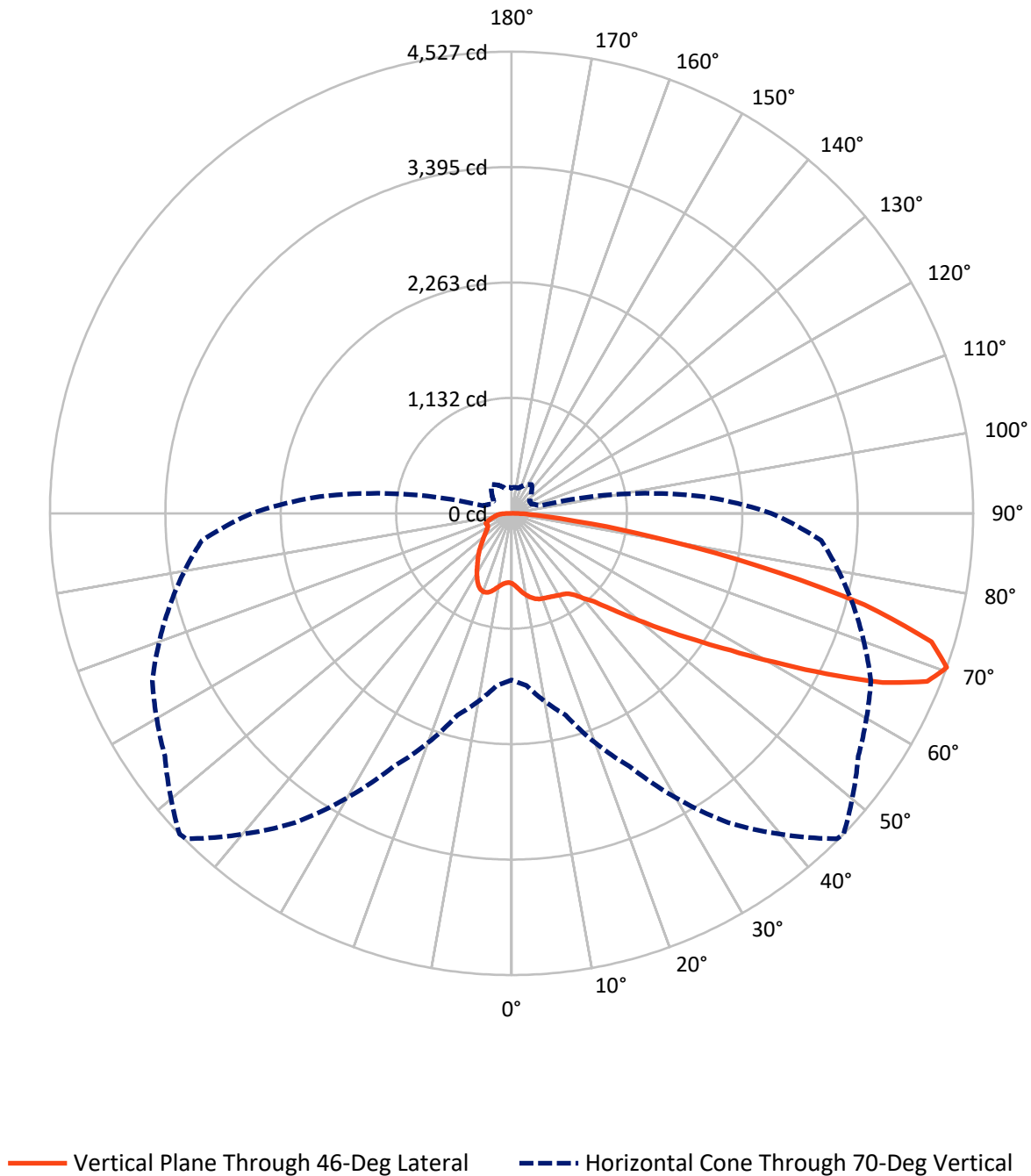
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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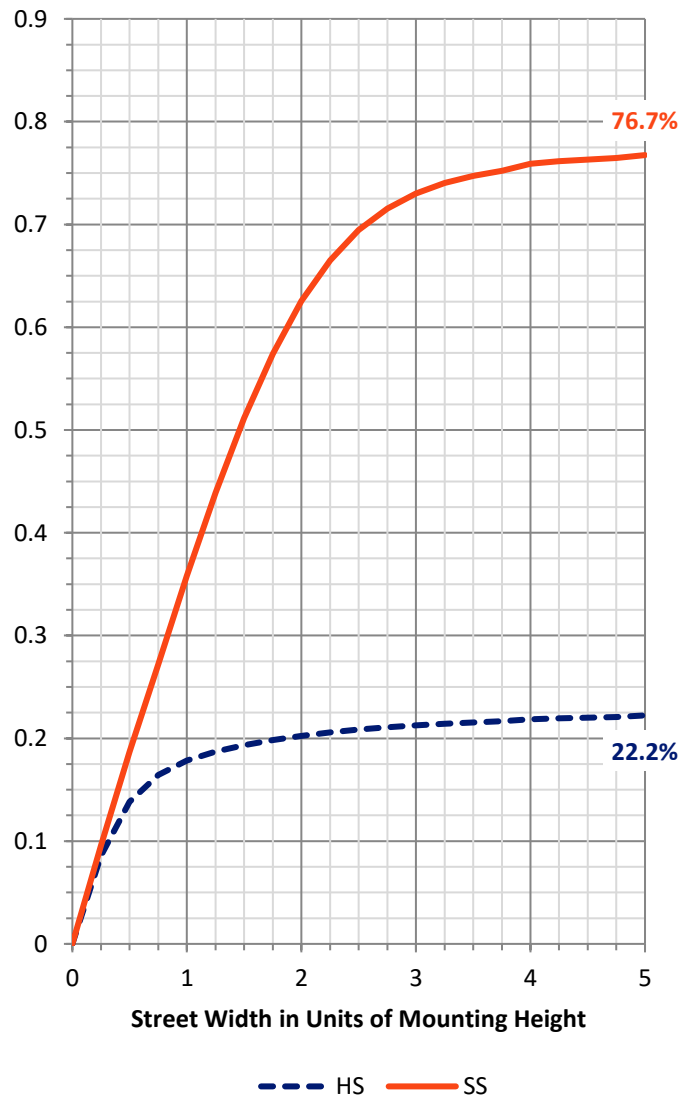
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1546.2	0.0	1546.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	5199.8	0.0	5199.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	6746.0	0.0	6746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	1.0
10°-20°	233.4	3.5
20°-30°	389.2	5.8
30°-40°	552.3	8.2
40°-50°	812.4	12.0
50°-60°	1375.9	20.4
60°-70°	1953.0	29.0
70°-80°	1186.5	17.6
80°-90°	173.2	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°	6746.0	100.0
0°-180°	6746.0	100.0

Coefficient of Utilization



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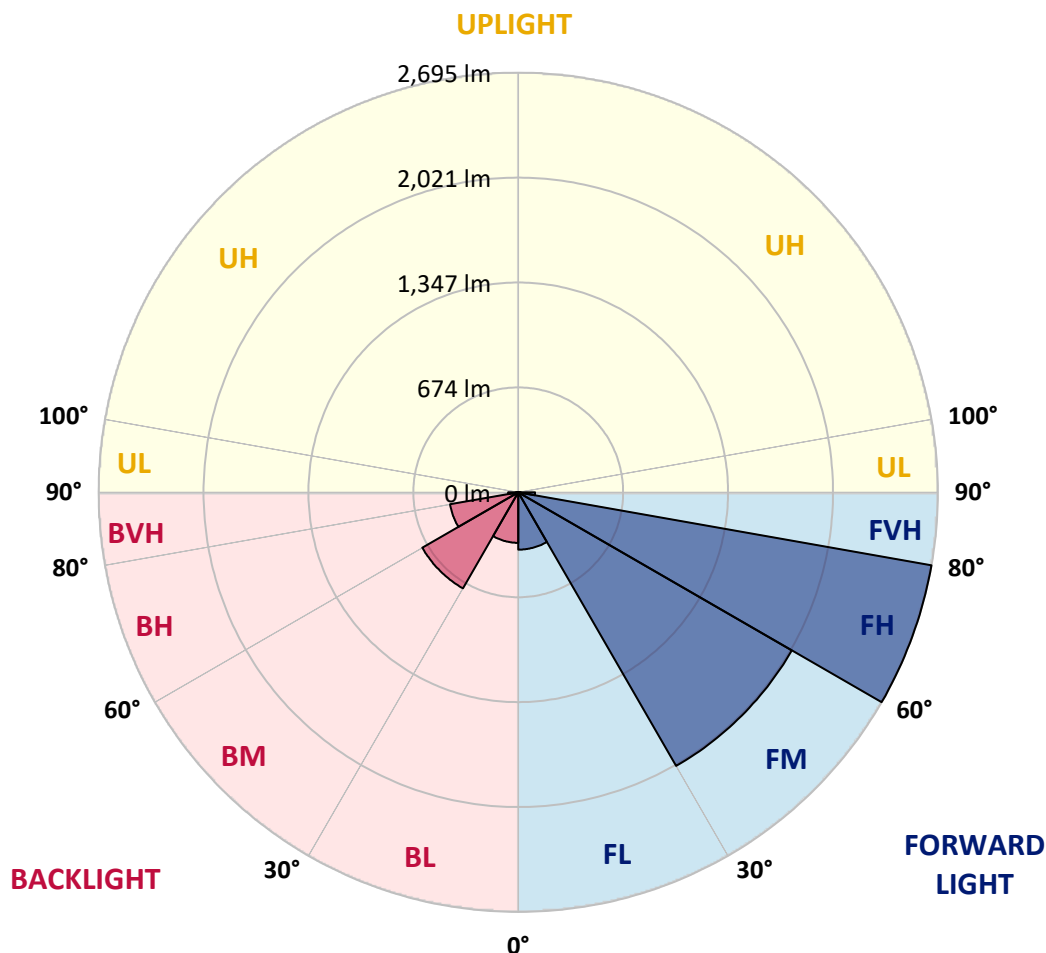
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	368.1	5.5			
FM	(30°-60°)	2028.9	30.1			
FH	(60°-80°)	2695.0	39.9			G2/5000
FVH	(80°-90°)	107.9	1.6			G2/225
BL	(0°-30°)	324.6	4.8	B1/500		
BM	(30°-60°)	711.7	10.6	B1/1000		
BH	(60°-80°)	444.5	6.6	B1/500		G1/500
BVH	(80°-90°)	65.3	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°	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3
2.5°	721.7	722.1	723.1	720.8	714.3	712.4	711.8	705.1	700.7	694.2	688.7
5°	779.4	779.9	778.5	772.0	757.7	747.1	746.2	730.9	717.1	702.3	691.2
7.5°	839.7	840.3	836.0	823.7	803.6	785.2	784.0	763.2	742.2	719.8	703.2
10°	893.0	890.2	883.1	866.0	842.2	819.6	818.6	796.9	772.7	745.7	723.5
12.5°	928.5	926.2	917.0	896.2	870.1	849.4	847.5	827.4	803.9	774.3	747.8
15°	948.2	949.8	937.3	913.8	888.4	870.8	869.2	854.9	833.9	804.1	773.6
17.5°	950.7	952.1	940.1	916.8	896.0	884.0	883.3	873.8	858.6	830.0	798.1
20°	935.9	936.9	926.9	907.8	894.1	890.4	890.2	886.1	874.7	849.4	818.4
22.5°	914.5	915.1	908.0	894.1	889.5	895.3	896.9	895.3	887.2	863.4	834.3
25°	909.1	908.7	901.3	887.2	891.1	903.4	905.5	906.1	900.6	879.8	854.7
27.5°	934.8	933.2	919.1	896.4	899.0	913.8	916.5	923.2	919.8	901.5	877.7
30°	1008.9	1006.1	977.3	931.5	919.1	926.7	930.2	940.8	941.5	926.2	908.5
32.5°	1134.0	1130.5	1078.8	997.1	953.0	939.9	943.1	959.0	967.6	955.8	936.6
35°	1292.2	1288.2	1220.4	1108.6	1009.8	965.0	967.3	980.0	997.1	980.5	955.1
37.5°	1457.0	1447.5	1382.2	1239.7	1100.1	1018.8	1018.8	1020.4	1028.5	993.9	976.8
40°	1620.9	1611.4	1552.3	1394.0	1216.9	1103.5	1098.2	1062.4	1056.0	1026.2	1020.4
42.5°	1773.3	1770.5	1735.6	1568.3	1354.0	1186.9	1179.5	1118.8	1120.2	1101.7	1101.9
45°	1935.3	1935.3	1906.9	1744.2	1513.8	1320.8	1313.4	1224.0	1237.9	1229.4	1249.9
47.5°	2067.6	2071.8	2067.9	1927.5	1699.6	1490.9	1477.5	1370.0	1408.7	1438.1	1497.9
50°	2202.7	2209.1	2209.8	2128.6	1924.3	1693.2	1677.9	1563.6	1650.2	1734.3	1851.8
52.5°	2398.7	2413.2	2355.3	2329.2	2199.5	1933.3	1918.3	1812.8	1957.3	2075.2	2277.7
55°	2580.4	2567.7	2526.4	2542.5	2494.0	2206.6	2195.3	2102.7	2299.4	2452.7	2715.7
57.5°	2678.7	2677.8	2719.4	2788.6	2811.7	2543.7	2534.2	2444.2	2685.2	2800.4	3126.8
60°	2794.2	2795.8	2898.7	3056.0	3151.1	2963.4	2959.2	2890.9	3059.9	3125.0	3449.4
62.5°	2810.3	2839.4	3016.7	3287.3	3468.7	3453.7	3463.0	3293.3	3395.1	3384.0	3690.1
65°	2624.5	2662.8	2983.7	3357.2	3784.6	3990.0	3998.6	3698.0	3659.4	3605.4	3776.3
67.5°	2243.5	2300.3	2648.9	3205.1	3888.7	4386.4	4398.4	4011.7	3878.8	3680.5	3568.9
70°	1632.7	1695.7	2046.6	2737.4	3703.1	4513.2	4526.8	4150.5	3887.1	3466.9	3046.7
72.5°	986.3	1035.7	1324.9	2015.2	3125.5	4282.3	4306.6	3974.6	3548.9	2936.6	2249.8
75°	433.1	465.4	640.7	1161.3	2237.5	3543.1	3573.3	3402.0	2883.5	2134.1	1329.8
77.5°	184.5	193.7	262.7	504.4	1264.9	2421.1	2462.6	2485.7	1956.4	1161.3	561.9
80°	115.0	118.7	148.7	228.3	591.9	1359.8	1404.6	1462.5	971.5	426.9	196.2
82.5°	70.0	74.1	98.8	138.1	308.2	616.4	637.9	678.7	377.0	184.5	101.6
85°	42.0	45.0	60.5	87.3	175.5	242.4	242.2	267.8	177.5	118.7	53.6
87.5°	20.1	22.4	32.3	45.2	88.4	91.0	85.2	96.5	107.8	77.8	27.0
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°	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3
2.5°	686.8	685.9	682.9	680.6	680.1	678.7	677.6	678.3	679.2	679.4	679.4
5°	686.6	684.1	680.1	678.5	680.6	683.4	686.8	691.4	694.2	696.3	697.7
7.5°	697.7	692.8	688.4	687.5	691.7	699.1	706.9	716.6	723.3	727.9	728.8
10°	716.1	710.1	705.8	706.7	714.1	724.7	735.8	748.2	758.4	764.6	765.1
12.5°	737.4	731.6	727.5	731.4	743.6	756.5	768.1	778.9	788.2	794.4	794.4
15°	761.9	757.7	752.9	761.9	778.5	790.0	794.9	800.2	805.3	809.9	809.0
17.5°	785.4	781.5	778.9	789.6	806.9	812.2	809.0	805.0	805.0	807.6	808.0
20°	805.7	802.3	803.9	814.3	823.3	817.7	805.7	793.3	788.2	789.6	790.9
22.5°	823.5	821.9	826.7	831.6	825.1	805.7	783.6	766.7	760.5	760.0	760.5
25°	844.3	844.0	850.0	841.3	812.6	776.9	747.1	730.7	727.2	730.0	734.6
27.5°	870.1	872.7	875.7	843.6	787.2	733.2	703.0	691.7	695.1	701.8	706.2
30°	903.1	910.1	903.6	837.8	750.8	683.4	654.5	651.3	660.7	670.2	674.8
32.5°	935.2	946.1	930.4	822.8	703.7	630.5	608.1	607.2	618.7	628.0	634.4
35°	961.1	982.6	950.5	793.0	649.2	581.8	565.4	559.2	563.3	574.2	581.5
37.5°	994.8	1030.6	964.3	747.5	590.1	541.6	522.4	508.1	504.4	508.8	512.5
40°	1056.4	1103.8	970.8	684.1	532.4	501.4	482.0	461.0	446.5	435.9	436.1
42.5°	1157.1	1199.1	966.6	606.9	479.0	462.2	440.3	416.0	392.5	368.5	366.6
45°	1320.5	1340.9	954.2	525.2	432.2	421.1	400.6	376.3	344.9	317.7	315.1
47.5°	1582.1	1537.1	934.8	453.9	390.9	386.2	367.3	339.4	306.1	284.2	282.3
50°	1938.8	1820.4	925.3	397.1	354.4	355.8	340.3	310.7	279.3	263.2	261.3
52.5°	2365.4	2150.3	943.5	353.2	325.1	329.9	318.4	290.7	264.3	251.6	249.8
55°	2808.0	2492.0	963.2	321.4	297.4	306.8	302.9	280.0	256.3	244.5	242.9
57.5°	3186.9	2747.1	923.9	295.5	272.7	287.4	290.9	273.3	252.1	241.5	239.6
60°	3425.3	2849.8	821.0	271.3	253.0	272.0	284.0	271.5	253.7	252.8	251.4
62.5°	3538.5	2840.8	666.5	252.1	240.8	265.3	289.0	281.9	272.2	280.5	281.2
65°	3487.7	2705.0	496.4	239.4	232.0	267.8	304.3	301.5	277.5	285.8	287.0
67.5°	3153.4	2381.1	367.5	228.3	222.3	275.0	332.0	308.0	267.1	273.1	269.4
70°	2548.8	1887.8	283.5	215.9	212.4	274.0	344.5	304.0	255.8	257.2	247.3
72.5°	1757.6	1287.3	230.6	204.3	198.1	249.8	335.7	294.4	246.3	235.7	222.6
75°	955.8	691.0	196.0	192.3	172.9	219.3	319.5	287.4	237.8	223.7	216.3
77.5°	376.1	286.7	170.1	175.9	151.2	193.7	301.5	274.3	226.0	207.5	203.9
80°	153.5	146.4	141.1	152.1	130.0	169.5	279.8	258.8	211.9	192.5	185.2
82.5°	87.0	91.0	109.7	120.0	105.5	156.1	269.4	246.3	195.1	172.5	163.7
85°	44.6	53.3	76.4	86.1	77.6	132.7	248.2	215.6	156.5	132.1	132.7
87.5°	21.5	29.8	48.3	54.0	50.3	96.0	185.4	156.3	121.9	96.5	93.5
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)