

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: P382793

Luminaire Tested: **GAN-SA1C-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382793
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-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6850.6 lumens
Efficiency: N/A
Efficacy: 116.1 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

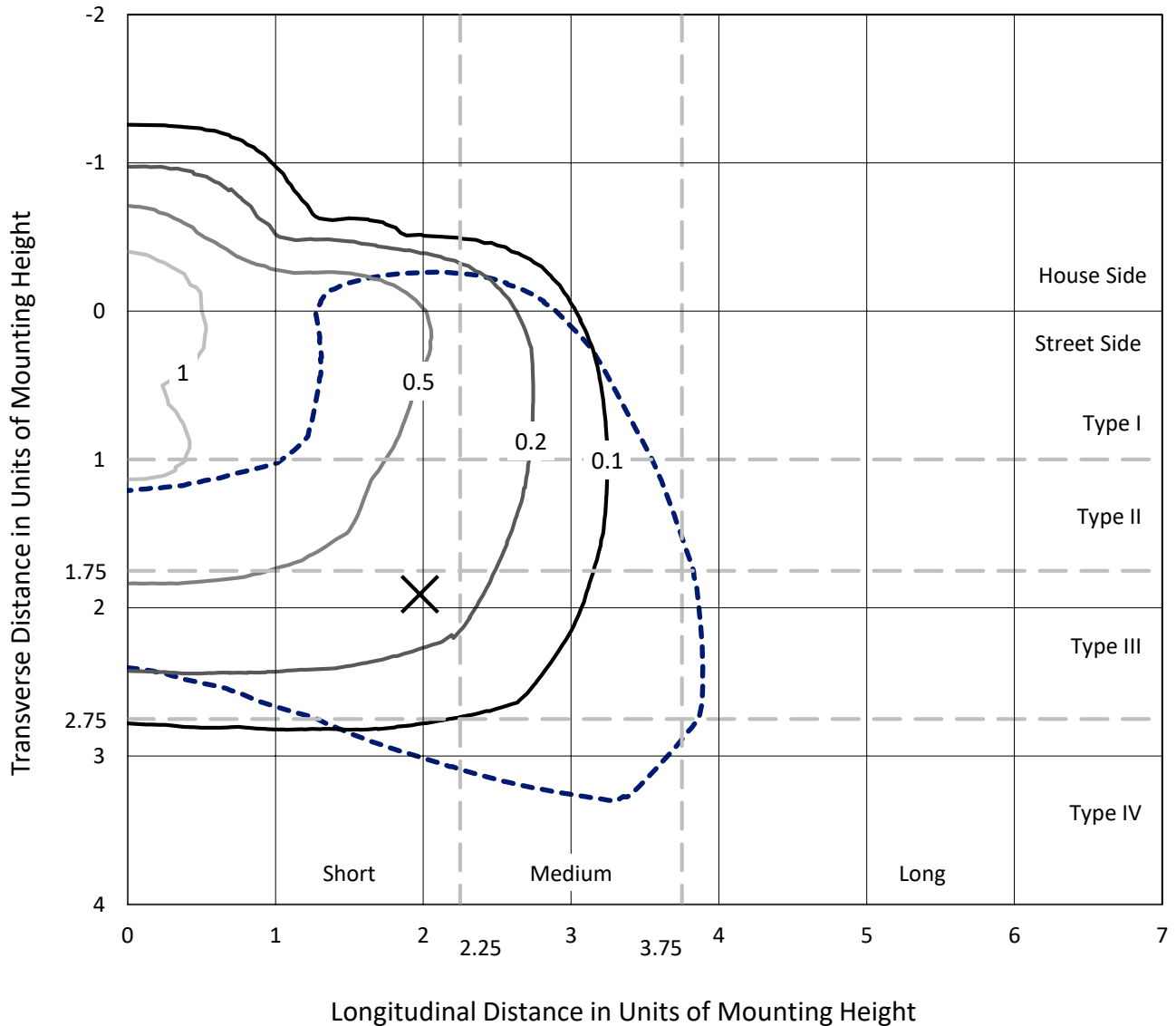
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

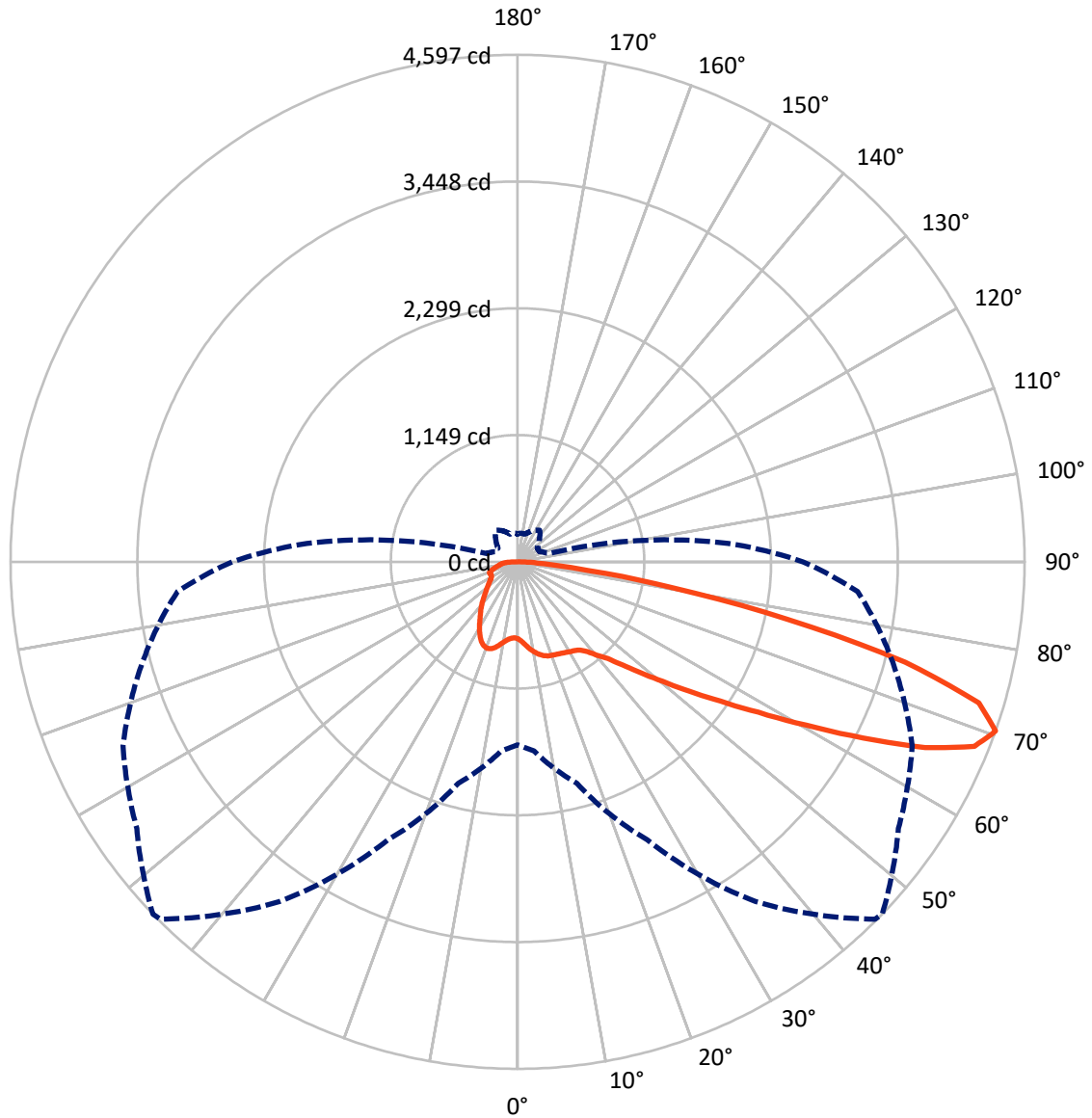
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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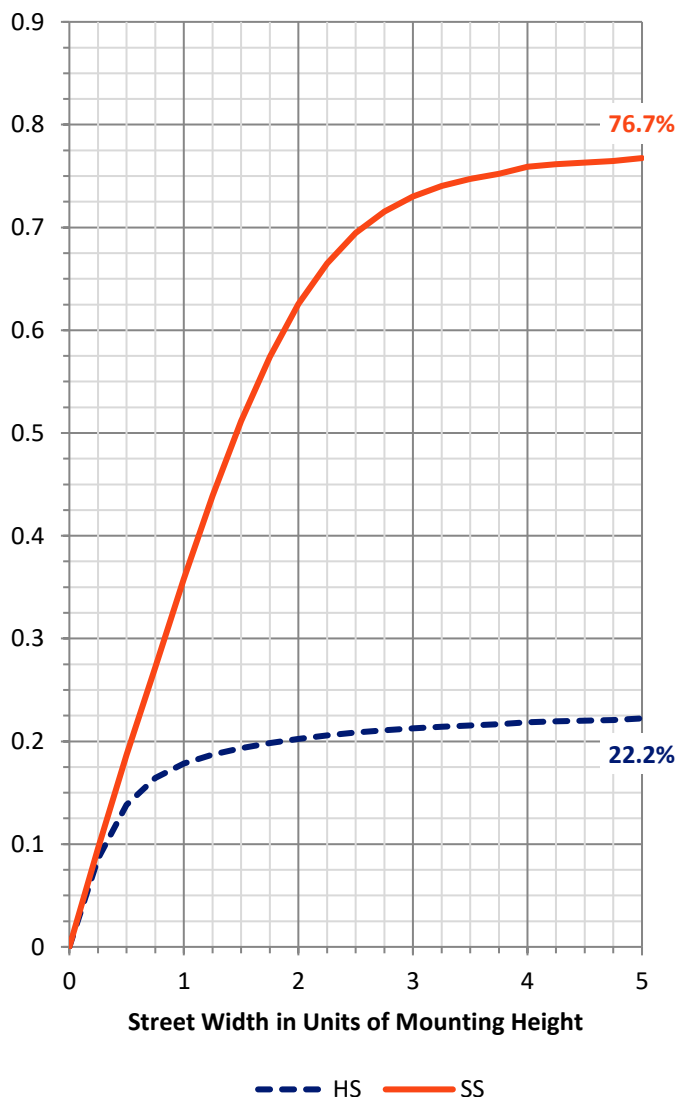
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1570.1	0.0	1570.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	5280.5	0.0	5280.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	6850.6	0.0	6850.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	1.0
10°-20°	237.0	3.5
20°-30°	395.3	5.8
30°-40°	560.9	8.2
40°-50°	825.0	12.0
50°-60°	1397.2	20.4
60°-70°	1983.3	29.0
70°-80°	1204.9	17.6
80°-90°	175.8	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°	6850.6	100.0
0°-180°	6850.6	100.0

Coefficient of Utilization

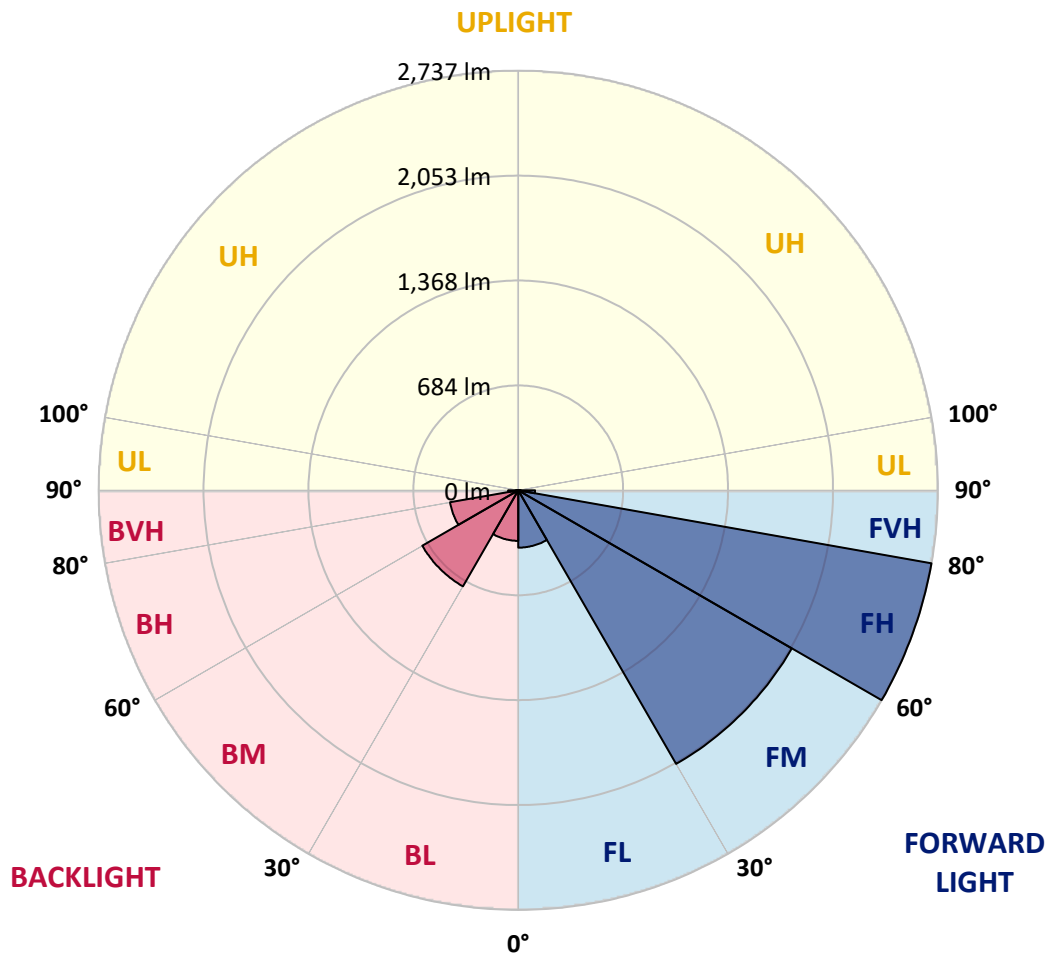


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	373.8	5.5			
FM (30°-60°)	2060.4	30.1			
FH (60°-80°)	2736.8	39.9			G2/5000
FVH (80°-90°)	109.5	1.6			G2/225
BL (0°-30°)	329.7	4.8	B1/500		
BM (30°-60°)	722.8	10.6	B1/1000		
BH (60°-80°)	451.4	6.6	B1/500		G1/500
BVH (80°-90°)	66.3	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°	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9
2.5°	732.8	733.3	734.2	731.9	725.4	723.5	722.8	716.0	711.5	705.0	699.3
5°	791.4	791.9	790.5	784.0	769.5	758.7	757.7	742.3	728.2	713.2	701.9
7.5°	852.6	853.4	848.9	836.5	816.1	797.3	796.2	775.0	753.7	731.0	714.1
10°	906.9	904.0	896.7	879.4	855.3	832.2	831.3	809.3	784.6	757.3	734.7
12.5°	942.9	940.6	931.2	910.1	883.7	862.5	860.7	840.3	816.3	786.3	759.4
15°	962.8	964.5	951.9	927.9	902.1	884.3	882.6	868.1	846.8	816.6	785.7
17.5°	965.5	966.9	954.6	931.0	909.8	897.7	897.0	887.4	871.9	842.9	810.4
20°	950.5	951.4	941.3	921.9	908.0	904.3	904.0	899.8	888.3	862.5	831.1
22.5°	928.7	929.3	922.0	908.0	903.3	909.2	910.8	909.2	901.0	876.9	847.2
25°	923.3	922.8	915.2	901.0	905.0	917.4	919.5	920.2	914.6	893.4	867.9
27.5°	949.2	947.7	933.3	910.3	912.9	927.9	930.7	937.5	934.1	915.5	891.4
30°	1024.5	1021.7	992.4	946.0	933.3	941.0	944.6	955.4	956.0	940.6	922.5
32.5°	1151.6	1148.0	1095.6	1012.6	967.8	954.5	957.7	973.8	982.6	970.6	951.1
35°	1312.2	1308.2	1239.2	1125.8	1025.4	980.0	982.3	995.2	1012.6	995.7	969.9
37.5°	1479.6	1470.0	1403.7	1259.0	1117.1	1034.6	1034.6	1036.3	1044.5	1009.2	991.9
40°	1646.0	1636.4	1576.4	1415.6	1235.8	1120.7	1115.2	1078.9	1072.3	1042.1	1036.3
42.5°	1800.8	1798.0	1762.6	1592.6	1375.1	1205.2	1197.8	1136.1	1137.5	1118.8	1119.0
45°	1965.4	1965.4	1936.5	1771.2	1537.2	1341.2	1333.8	1243.1	1257.1	1248.5	1269.3
47.5°	2099.7	2103.9	2099.9	1957.4	1726.0	1514.0	1500.4	1391.2	1430.6	1460.4	1521.1
50°	2236.8	2243.4	2244.1	2161.6	1954.1	1719.5	1704.0	1587.9	1675.9	1761.2	1880.5
52.5°	2435.9	2450.6	2391.8	2365.3	2233.6	1963.2	1948.0	1840.8	1987.6	2107.4	2313.0
55°	2620.4	2607.5	2565.6	2582.0	2532.7	2240.8	2229.4	2135.3	2335.1	2490.8	2757.8
57.5°	2720.3	2719.3	2761.5	2831.9	2855.3	2583.1	2573.5	2482.1	2726.8	2843.8	3175.4
60°	2837.5	2839.2	2943.7	3103.4	3200.0	3009.4	3005.1	2935.7	3107.4	3173.4	3502.8
62.5°	2853.9	2883.4	3063.5	3338.3	3522.6	3507.3	3516.7	3344.3	3447.8	3436.5	3747.3
65°	2665.2	2704.1	3030.0	3409.3	3843.3	4052.0	4060.6	3755.3	3716.2	3661.4	3834.8
67.5°	2278.4	2336.0	2690.0	3254.8	3949.0	4454.5	4466.7	4073.9	3938.9	3737.6	3624.3
70°	1658.0	1722.0	2078.4	2779.8	3760.5	4583.1	4597.0	4214.9	3947.3	3520.7	3093.9
72.5°	1001.5	1051.7	1345.4	2046.4	3173.9	4348.7	4373.3	4036.2	3603.9	2982.2	2284.6
75°	439.8	472.7	650.6	1179.2	2272.2	3598.0	3628.8	3454.7	2928.2	2167.2	1350.4
77.5°	187.3	196.7	266.8	512.3	1284.5	2458.6	2500.8	2524.3	1986.7	1179.2	570.7
80°	116.7	120.5	151.0	231.9	601.1	1380.9	1426.4	1485.2	986.5	433.4	199.3
82.5°	71.1	75.3	100.3	140.2	313.0	626.0	647.8	689.3	382.9	187.3	103.1
85°	42.7	45.7	61.4	88.6	178.2	246.2	245.9	271.9	180.3	120.5	54.4
87.5°	20.4	22.7	32.8	45.9	89.8	92.4	86.5	98.0	109.5	79.0	27.4
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°	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9
2.5°	697.4	696.5	693.4	691.1	690.6	689.3	688.1	688.8	689.7	690.0	690.0
5°	697.3	694.7	690.6	689.1	691.1	694.0	697.4	702.2	705.0	707.0	708.5
7.5°	708.5	703.6	699.1	698.2	702.4	709.9	717.9	727.7	734.5	739.2	740.1
10°	727.3	721.1	716.7	717.7	725.1	735.9	747.2	759.9	770.1	776.4	776.9
12.5°	748.8	742.9	738.7	742.7	755.1	768.2	780.0	791.0	800.4	806.7	806.7
15°	773.7	769.5	764.5	773.7	790.5	802.2	807.2	812.6	817.7	822.5	821.5
17.5°	797.6	793.6	791.0	801.8	819.4	824.8	821.5	817.5	817.5	820.0	820.6
20°	818.2	814.7	816.3	826.8	836.1	830.4	818.2	805.5	800.4	801.8	803.2
22.5°	836.3	834.7	839.5	844.4	837.9	818.2	795.7	778.6	772.3	771.8	772.3
25°	857.4	857.1	863.3	854.3	825.3	788.9	758.7	742.0	738.5	741.3	746.0
27.5°	883.7	886.2	889.3	856.7	799.5	744.6	713.8	702.4	705.9	712.7	717.2
30°	917.1	924.2	917.6	850.8	762.4	694.0	664.7	661.4	671.0	680.6	685.2
32.5°	949.7	960.8	944.8	835.6	714.6	640.3	617.5	616.6	628.3	637.6	644.3
35°	976.0	997.8	965.2	805.3	659.3	590.8	574.1	567.9	572.1	583.1	590.6
37.5°	1010.3	1046.6	979.2	759.1	599.3	550.0	530.5	516.0	512.3	516.7	520.5
40°	1072.9	1120.8	985.9	694.7	540.7	509.2	489.5	468.2	453.4	442.7	442.9
42.5°	1175.1	1217.7	981.7	616.3	486.5	469.3	447.0	422.5	398.5	374.2	372.3
45°	1341.1	1361.6	969.0	533.4	438.9	427.7	406.8	382.1	350.3	322.6	320.0
47.5°	1606.6	1560.9	949.2	460.9	396.9	392.2	373.0	344.7	310.9	288.6	286.7
50°	1968.8	1848.6	939.7	403.3	359.9	361.3	345.6	315.6	283.7	267.3	265.4
52.5°	2402.1	2183.6	958.2	358.7	330.1	335.0	323.3	295.2	268.5	255.5	253.7
55°	2851.6	2530.6	978.1	326.3	302.0	311.6	307.6	284.4	260.3	248.3	246.7
57.5°	3236.3	2789.6	938.3	300.1	276.9	291.9	295.4	277.6	256.0	245.2	243.3
60°	3478.5	2893.9	833.6	275.5	256.9	276.2	288.4	275.7	257.7	256.7	255.3
62.5°	3593.4	2884.8	676.9	256.0	244.5	269.4	293.5	286.3	276.4	284.9	285.5
65°	3541.7	2746.9	504.1	243.1	235.6	271.9	309.0	306.2	281.8	290.3	291.4
67.5°	3202.3	2418.0	373.3	231.9	225.8	279.2	337.1	312.7	271.3	277.3	273.6
70°	2588.3	1917.0	287.9	219.2	215.7	278.3	349.8	308.8	259.8	261.2	251.1
72.5°	1784.8	1307.2	234.2	207.5	201.1	253.7	340.9	298.9	250.1	239.4	226.0
75°	970.6	701.7	199.1	195.3	175.6	222.7	324.5	291.9	241.5	227.2	219.7
77.5°	381.9	291.2	172.8	178.7	153.5	196.7	306.2	278.5	229.5	210.8	207.0
80°	155.9	148.7	143.3	154.5	132.0	172.1	284.1	262.8	215.2	195.5	188.0
82.5°	88.4	92.4	111.3	121.9	107.1	158.5	273.6	250.1	198.1	175.1	166.2
85°	45.3	54.1	77.6	87.5	78.8	134.8	252.0	219.0	158.9	134.1	134.8
87.5°	21.8	30.3	49.0	54.9	51.1	97.5	188.3	158.7	123.8	98.0	94.9
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)