

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: P317475

Luminaire Tested: **GAN-SA1B-750-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-750-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6234 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

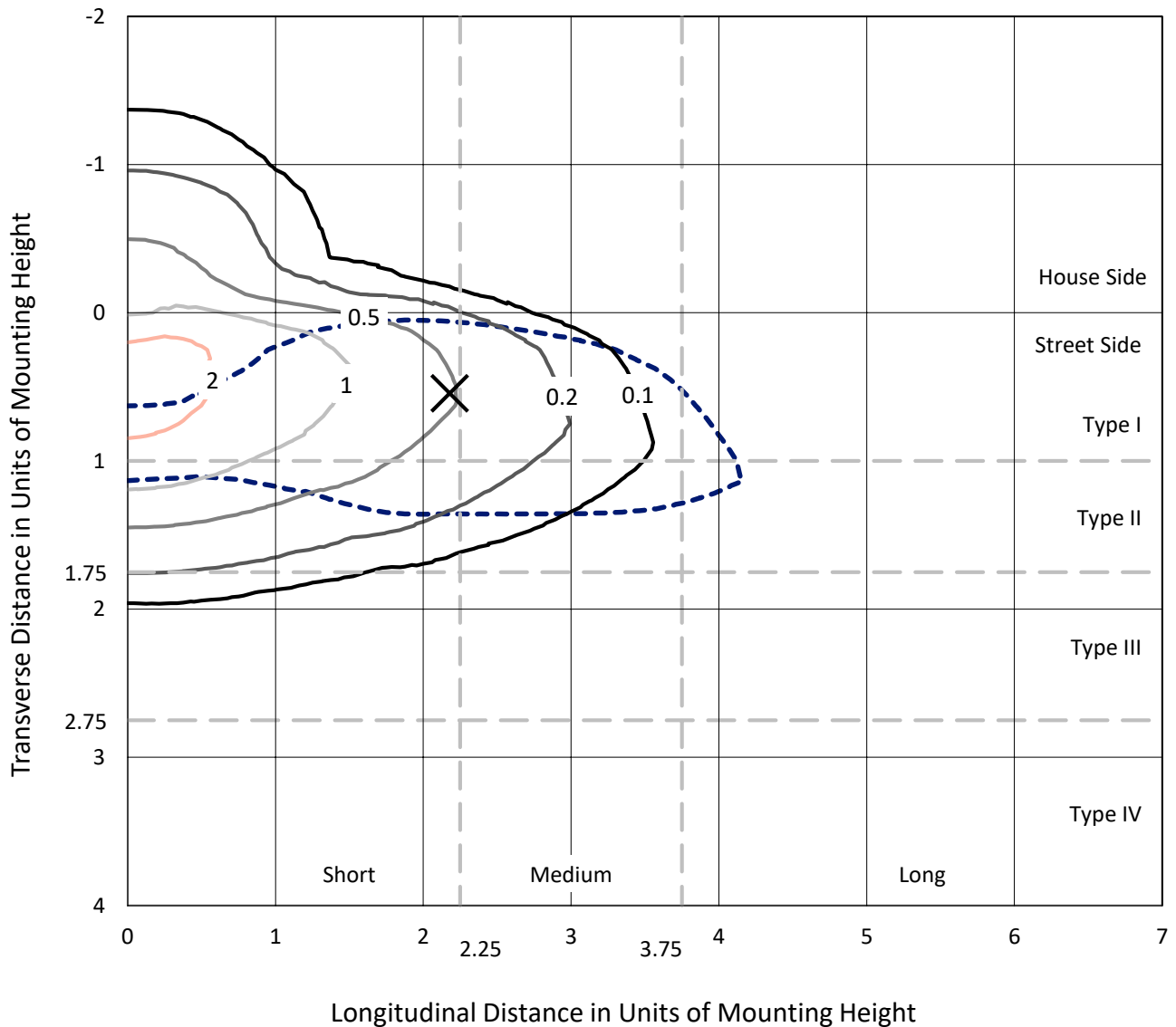
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

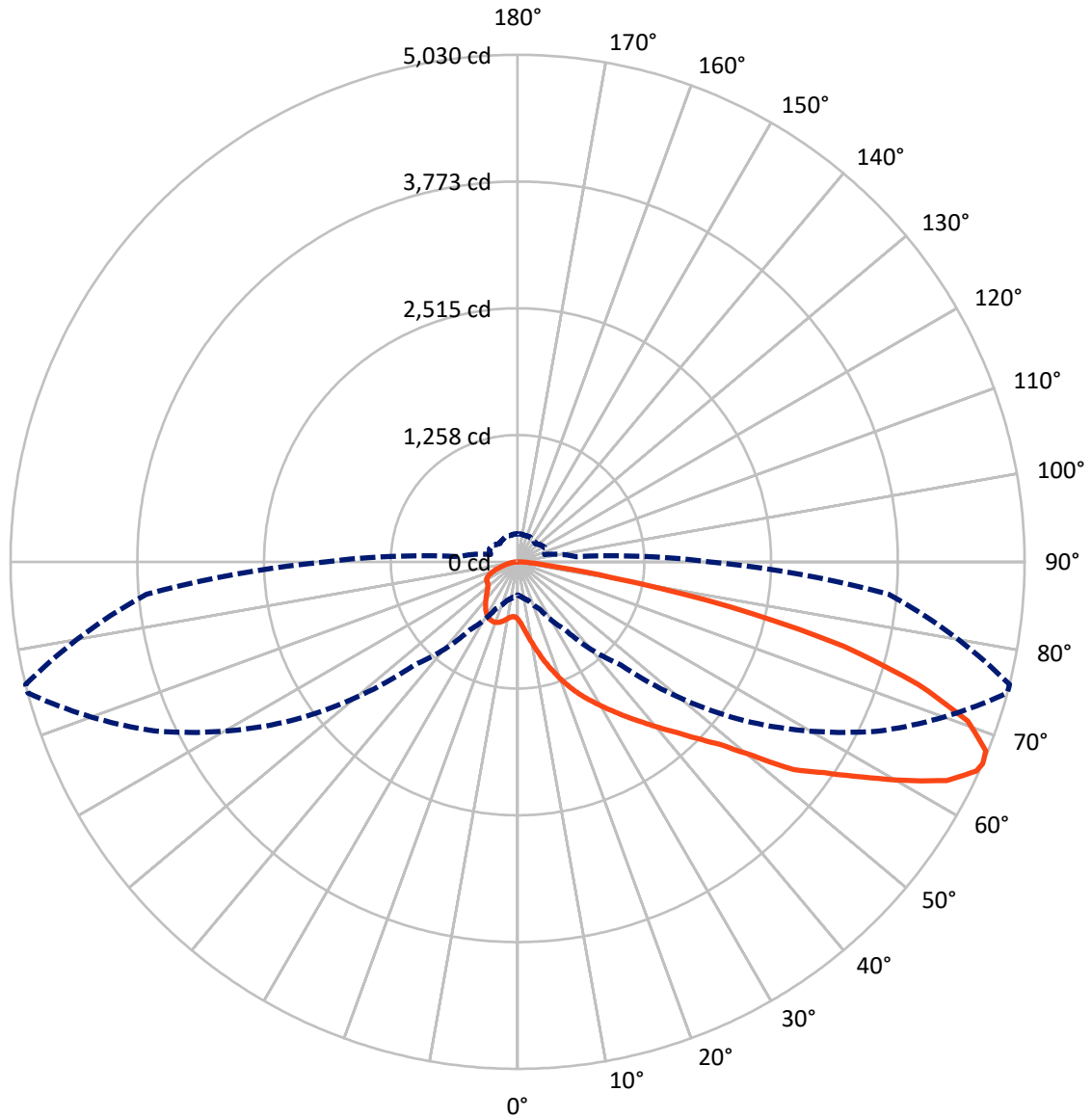
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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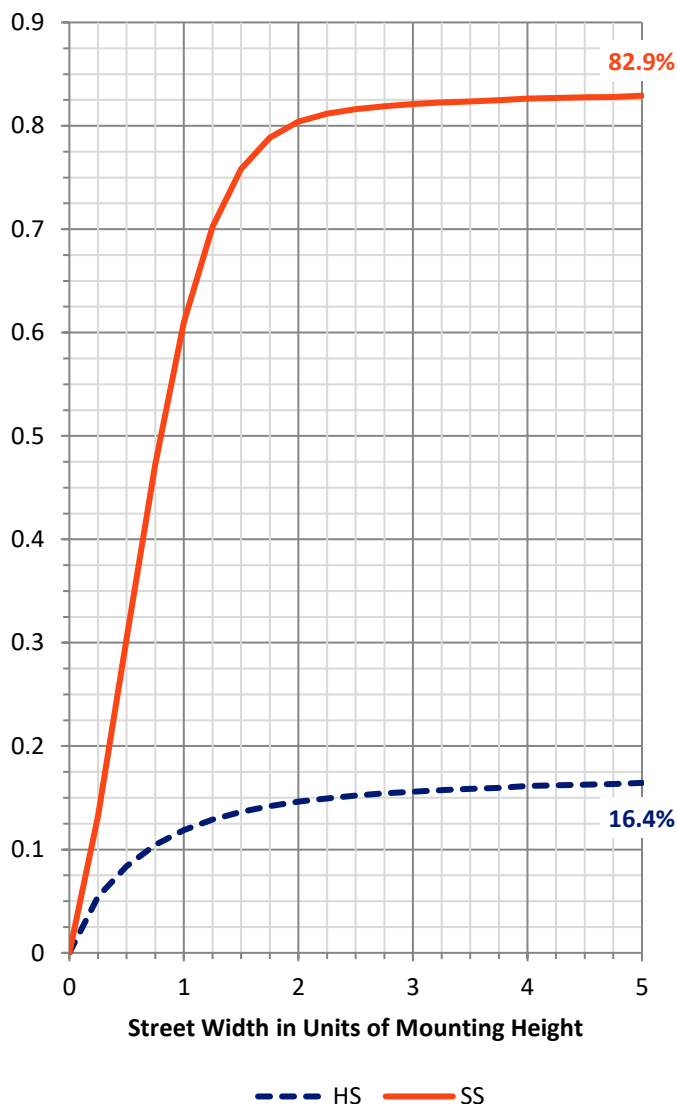
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1049.0	0.0	1049.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	5185.0	0.0	5185.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	6234.0	0.0	6234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	1.1
10°-20°	271.9	4.4
20°-30°	528.3	8.5
30°-40°	862.3	13.8
40°-50°	1178.1	18.9
50°-60°	1372.3	22.0
60°-70°	1230.2	19.7
70°-80°	621.7	10.0
80°-90°	100.4	1.6
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°	6234.0	100.0
0°-180°	6234.0	100.0

Coefficient of Utilization



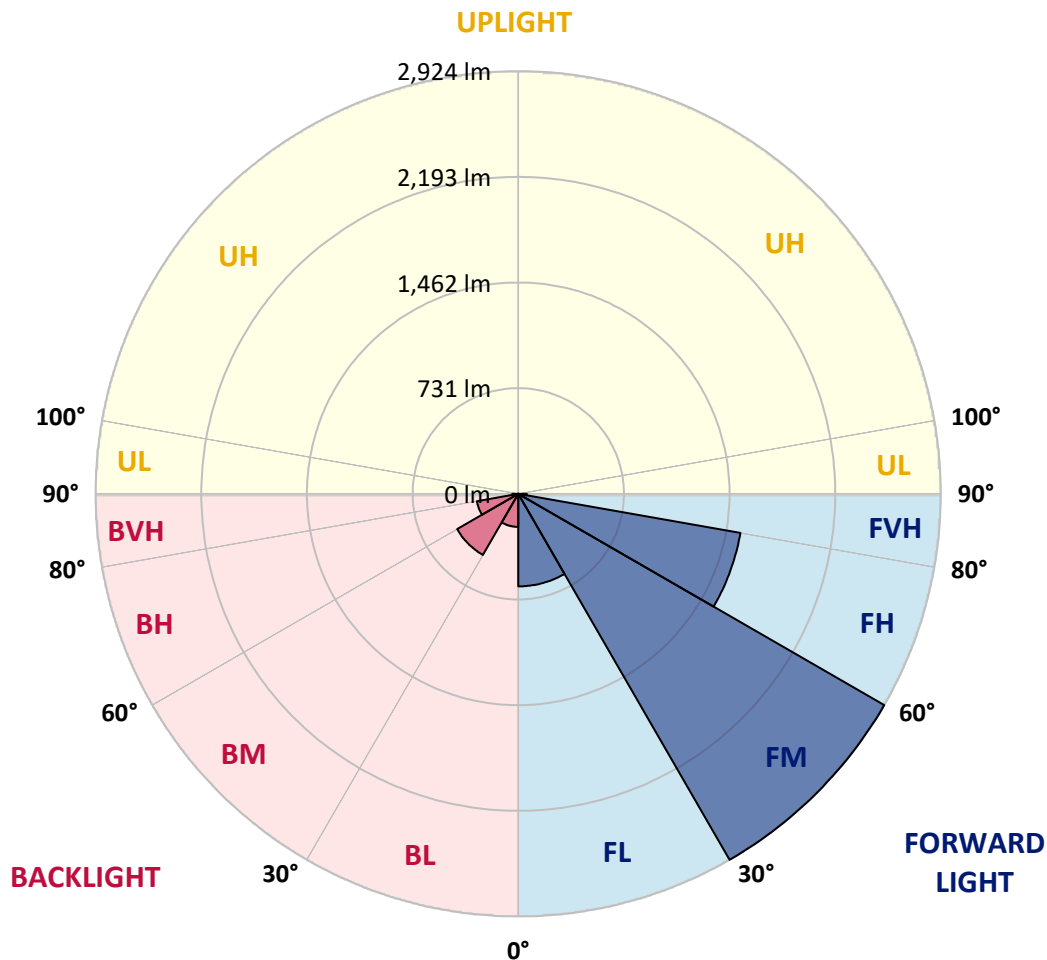
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	640.2	10.3			
FM (30°-60°)	2924.2	46.9			
FH (60°-80°)	1561.3	25.0			G1/1800
FVH (80°-90°)	59.3	1.0			G1/100
BL (0°-30°)	228.8	3.7	B1/500		
BM (30°-60°)	488.5	7.8	B1/1000		
BH (60°-80°)	290.6	4.7	B1/500		G1/500
BVH (80°-90°)	41.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3
2.5°	755.8	744.3	743.3	726.6	722.7	690.8	667.3	642.7	614.8	609.3	587.3
5°	970.8	969.7	955.1	927.8	906.4	851.8	797.9	740.7	678.1	667.9	618.4
7.5°	1164.2	1162.5	1151.3	1121.9	1091.0	1023.9	946.9	859.2	757.7	742.6	660.5
10°	1311.1	1310.5	1306.6	1285.1	1258.8	1194.5	1109.4	989.8	850.1	829.6	713.2
12.5°	1424.5	1425.8	1428.3	1420.7	1408.2	1353.4	1266.2	1128.2	948.8	928.5	771.8
15°	1501.4	1505.2	1518.3	1529.1	1535.6	1502.0	1417.5	1269.8	1059.2	1034.9	836.8
17.5°	1540.1	1544.3	1567.0	1599.6	1629.6	1626.2	1559.1	1404.8	1165.3	1141.8	906.7
20°	1573.5	1576.7	1602.1	1641.2	1694.4	1717.9	1680.2	1534.8	1281.5	1253.5	980.7
22.5°	1670.5	1674.5	1682.1	1704.3	1751.3	1794.5	1776.3	1657.8	1387.9	1361.9	1051.0
25°	1857.5	1862.4	1845.9	1827.1	1836.0	1866.0	1869.4	1769.9	1495.9	1466.4	1126.5
27.5°	2082.9	2089.9	2061.8	2013.3	1971.0	1959.3	1955.3	1861.8	1598.9	1564.8	1201.3
30°	2303.7	2315.7	2279.1	2216.3	2138.6	2084.0	2043.6	1951.7	1700.5	1667.9	1271.7
32.5°	2519.3	2514.5	2461.3	2400.0	2309.0	2240.6	2142.8	2048.2	1814.8	1777.3	1341.8
35°	2667.1	2668.7	2619.4	2546.6	2459.9	2407.4	2275.7	2152.4	1931.4	1896.9	1421.4
37.5°	2792.8	2784.9	2729.1	2661.1	2586.4	2564.0	2431.3	2267.1	2057.8	2020.1	1506.0
40°	2834.7	2825.6	2789.0	2740.1	2680.2	2678.3	2602.9	2397.0	2200.6	2163.4	1601.5
42.5°	2809.3	2797.6	2782.6	2769.3	2750.9	2759.3	2764.2	2549.4	2357.6	2315.9	1711.9
45°	2715.5	2698.0	2708.5	2737.5	2777.5	2825.4	2909.8	2718.1	2533.5	2498.6	1841.7
47.5°	2571.4	2555.5	2588.5	2650.5	2759.3	2880.4	3047.6	2904.3	2743.5	2708.7	2026.4
50°	2368.6	2373.3	2420.5	2533.3	2697.7	2905.8	3217.3	3150.9	3048.6	3016.3	2278.5
52.5°	2036.0	2036.8	2169.7	2354.9	2588.5	2892.7	3311.5	3466.0	3465.4	3426.2	2518.5
55°	1727.0	1745.8	1851.0	2097.1	2411.6	2840.2	3377.3	3619.2	3739.0	3693.1	2742.2
57.5°	1425.2	1436.2	1535.9	1783.0	2159.1	2700.3	3444.8	3803.1	4054.3	4025.3	3020.3
60°	1081.9	1098.8	1201.9	1430.2	1836.2	2452.0	3451.2	3995.1	4431.3	4402.1	3330.8
62.5°	702.2	731.4	827.9	1041.9	1445.5	2095.0	3303.9	4120.6	4788.5	4778.1	3606.3
65°	403.6	425.6	492.7	657.8	997.2	1646.8	2953.6	4072.3	5008.4	5002.5	3709.4
66°	329.7	343.5	394.9	514.1	822.8	1446.1	2750.0	3970.5	5030.2	5030.4	3697.5
67.5°	263.7	269.8	292.9	368.0	607.2	1146.2	2386.2	3746.0	5003.1	5010.5	3621.1
70°	218.2	221.4	228.6	246.8	331.4	691.2	1693.7	3162.5	4731.2	4736.9	3322.9
72.5°	195.8	197.7	200.4	203.0	233.9	386.2	1034.5	2529.9	4148.1	4155.5	2868.5
75°	177.4	178.4	178.0	178.2	196.2	246.1	534.6	1888.9	3354.0	3339.2	2197.4
77.5°	155.8	156.8	154.7	155.1	173.5	189.2	266.0	1322.3	2263.5	2158.9	1238.1
80°	131.6	132.5	131.6	133.1	151.1	142.9	154.7	743.9	1000.8	946.7	440.2
82.5°	99.5	103.1	105.6	111.5	124.4	101.6	103.5	289.7	304.8	290.2	135.0
85°	43.6	53.1	79.6	85.3	93.5	61.0	67.9	118.1	124.0	120.2	49.1
87.5°	11.4	12.5	39.4	49.5	51.9	27.5	35.3	53.8	56.7	53.8	16.3
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°	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3
2.5°	575.7	565.3	546.7	530.2	517.7	509.2	500.7	496.5	494.0	491.4	491.8
5°	594.1	573.1	541.2	518.5	505.8	497.8	493.5	491.8	490.8	488.2	488.2
7.5°	621.8	592.2	548.1	524.9	514.9	508.8	506.2	505.4	504.1	501.2	501.6
10°	656.7	615.2	562.7	540.1	531.0	524.2	520.6	519.4	517.0	513.6	514.1
12.5°	697.8	643.8	582.0	558.3	547.3	538.2	532.3	528.7	524.6	520.2	520.4
15°	742.6	674.9	602.7	574.6	559.6	546.9	537.3	531.2	524.9	519.4	519.1
17.5°	788.1	705.0	618.6	583.5	563.2	546.4	533.5	524.0	516.2	509.4	508.8
20°	837.2	732.1	627.5	582.6	556.4	536.5	519.4	507.5	498.8	492.1	491.0
22.5°	887.2	757.5	629.0	574.0	541.4	517.0	499.0	485.9	477.0	470.0	467.5
25°	932.9	777.1	622.8	557.2	520.4	494.2	476.6	463.3	456.1	447.8	445.3
27.5°	974.6	790.9	610.6	535.9	496.9	471.1	454.6	443.2	435.3	429.0	426.9
30°	1012.1	798.3	590.5	510.5	472.8	449.3	435.3	427.5	420.7	412.7	411.2
32.5°	1047.6	798.3	564.6	482.7	448.9	430.0	421.8	416.9	409.3	401.5	399.4
35°	1083.2	793.4	534.2	453.8	426.9	416.3	415.9	410.2	398.5	387.9	385.2
37.5°	1120.6	783.5	499.9	426.7	408.9	410.2	413.8	401.1	384.5	369.5	365.5
40°	1162.9	769.7	464.3	403.2	393.9	407.4	408.0	387.9	355.8	342.0	338.4
42.5°	1212.7	756.0	431.3	382.4	382.0	399.1	397.2	359.6	340.3	333.3	331.4
45°	1278.1	748.1	400.0	362.7	372.7	385.8	378.8	343.9	335.9	331.8	330.2
47.5°	1381.1	752.2	371.2	347.1	363.4	372.5	344.5	337.6	331.8	327.0	325.3
50°	1510.2	749.8	347.9	336.3	352.8	358.5	329.1	329.3	326.3	320.8	318.3
52.5°	1607.4	731.6	332.9	330.2	343.5	333.8	319.4	321.3	319.8	311.7	309.0
55°	1701.1	716.0	325.3	327.8	336.7	302.9	307.9	312.6	311.1	303.3	302.0
57.5°	1817.8	713.0	320.6	328.5	331.0	287.4	296.9	303.1	302.0	298.6	298.0
60°	1960.6	713.9	316.4	329.5	324.7	276.0	286.6	294.4	295.0	294.4	294.0
62.5°	2039.1	690.8	305.8	326.6	313.4	266.0	275.8	287.2	287.4	288.7	288.5
65°	1972.5	621.8	286.1	316.2	294.6	257.8	266.5	278.9	275.8	281.5	281.5
66°	1907.7	582.0	276.4	309.4	286.6	254.6	263.5	274.7	270.7	278.5	278.5
67.5°	1775.4	514.9	258.8	295.0	275.1	250.2	260.1	267.7	262.2	273.9	273.0
70°	1533.7	398.3	223.5	262.4	256.3	243.6	255.4	253.8	245.7	263.5	260.1
72.5°	1293.1	302.6	179.5	219.7	227.7	235.3	248.9	236.0	225.8	238.3	230.9
75°	1003.4	227.5	141.8	170.8	192.4	222.4	241.1	215.4	200.8	199.6	195.6
77.5°	542.4	156.2	112.4	130.4	152.8	206.3	235.8	193.4	171.4	166.3	163.2
80°	214.8	101.6	81.7	98.8	106.9	183.1	223.1	167.8	141.4	136.3	131.4
82.5°	88.7	60.1	52.7	66.2	69.6	156.6	200.2	137.6	109.2	151.1	160.4
85°	38.1	33.0	31.3	34.3	39.4	109.8	159.4	105.0	117.9	105.2	83.6
87.5°	11.4	14.0	13.3	13.1	14.4	26.2	84.9	58.4	86.6	32.8	24.5
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)