

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: P321866

Luminaire Tested: **GAN-SA2A-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6177 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

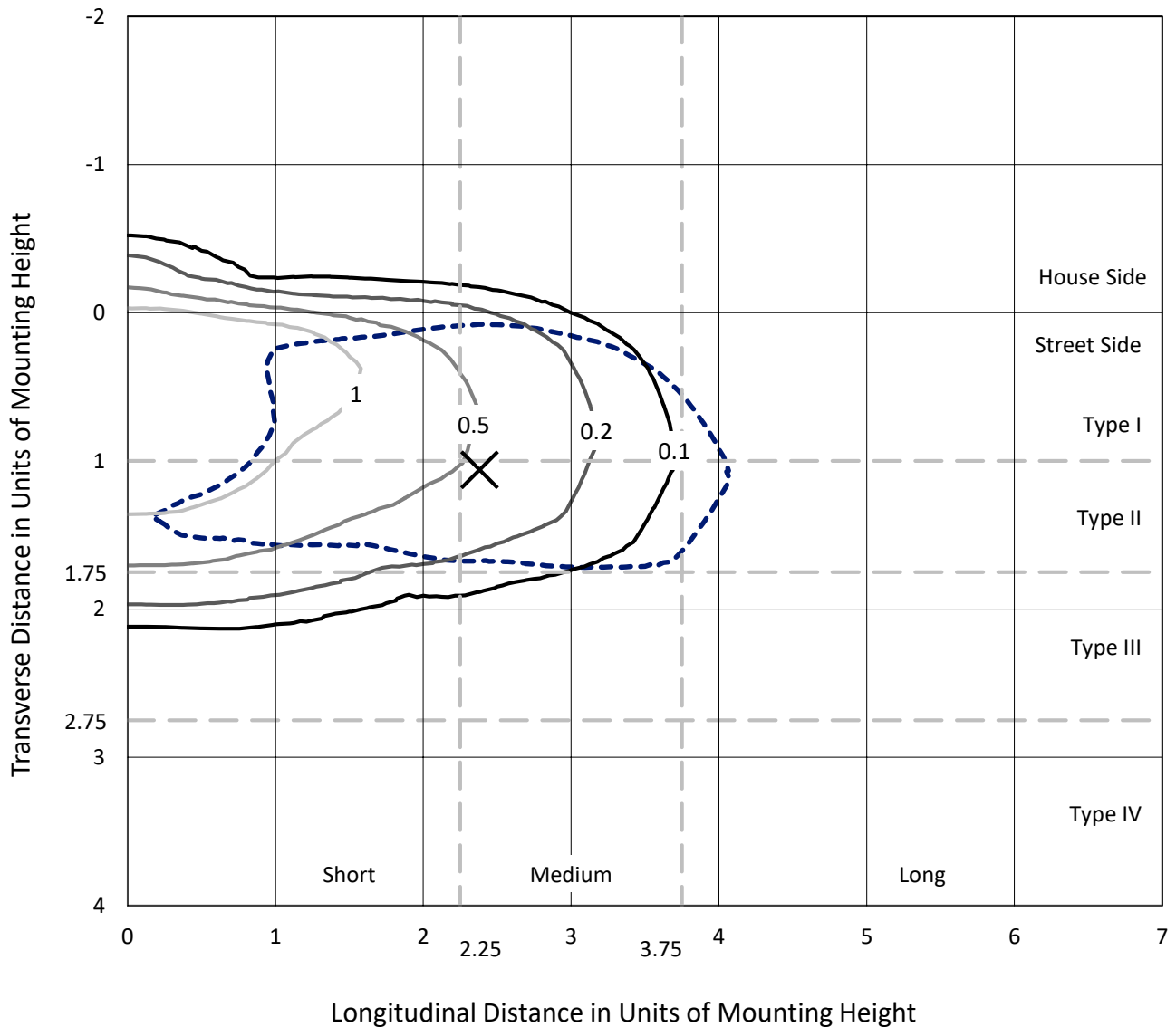
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

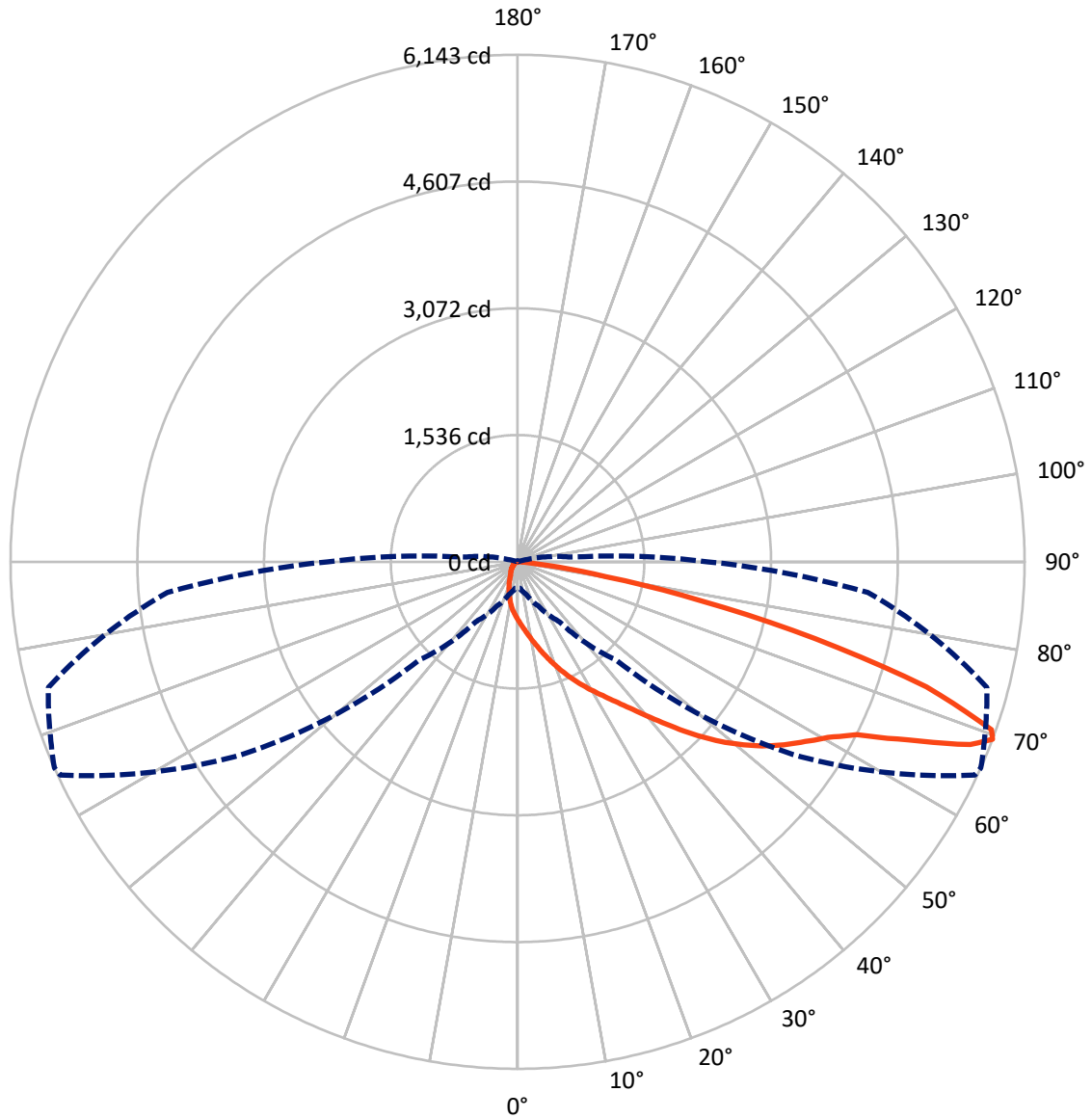
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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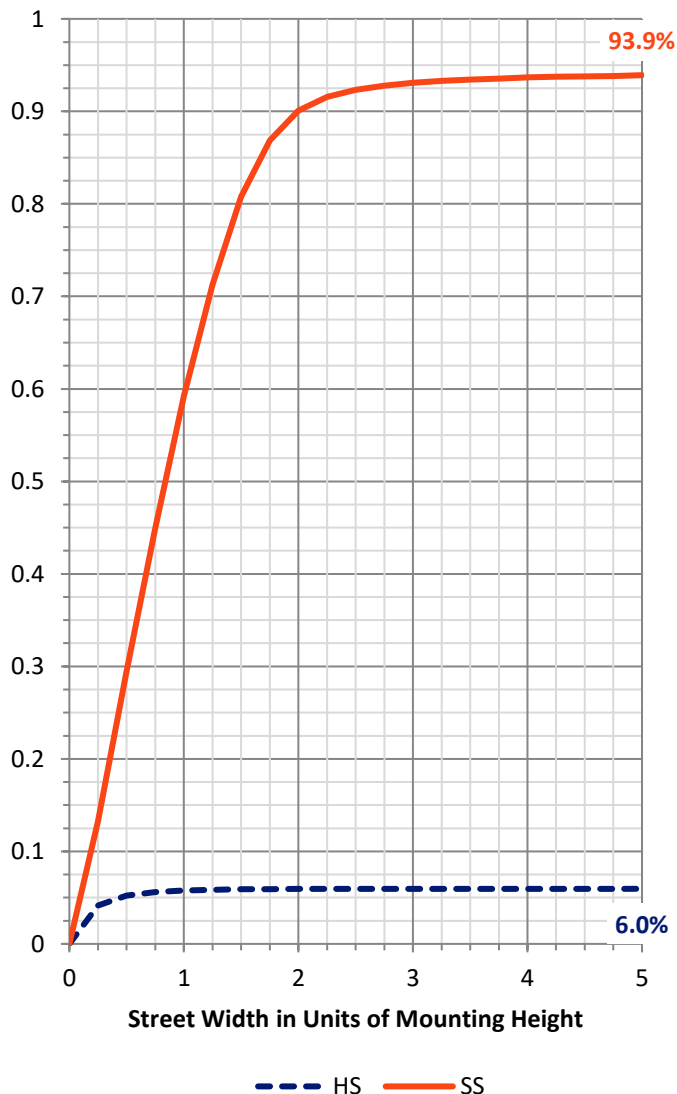
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	370.5	0.0	370.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	5806.5	0.0	5806.5
	% Fixture	94.0	0.0	94.0
Total	Lumens	6177.0	0.0	6177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	1.1
10°-20°	202.2	3.3
20°-30°	352.2	5.7
30°-40°	617.9	10.0
40°-50°	1034.2	16.7
50°-60°	1520.2	24.6
60°-70°	1560.9	25.3
70°-80°	770.6	12.5
80°-90°	51.0	0.8
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°	6177.0	100.0
0°-180°	6177.0	100.0

Coefficient of Utilization

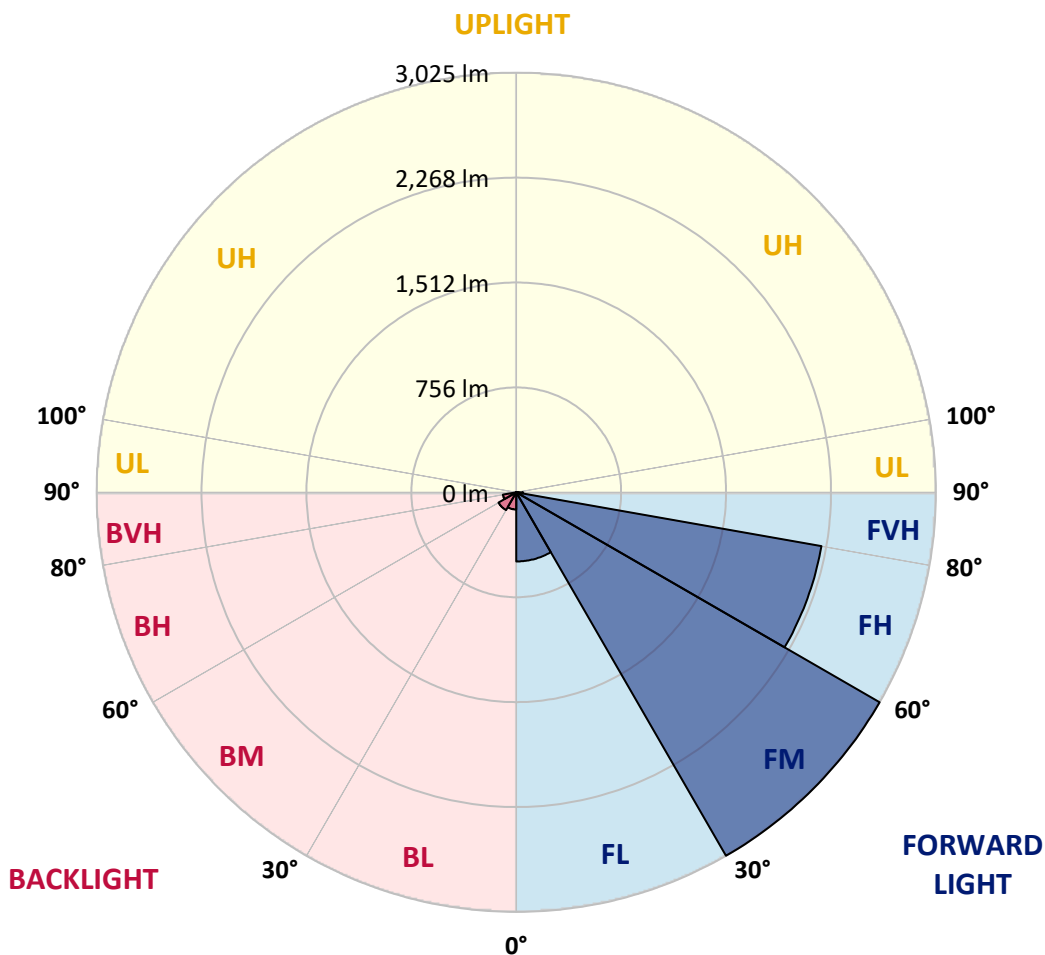


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	498.4	8.1			
FM (30°-60°)	3024.6	49.0			
FH (60°-80°)	2233.8	36.2			G2/5000
FVH (80°-90°)	49.7	0.8			G1/100
BL (0°-30°)	123.9	2.0	B1/500		
BM (30°-60°)	147.7	2.4	B0/220		
BH (60°-80°)	97.6	1.6	B0/110		G0/110
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
2.5°	827.4	823.8	822.4	815.9	804.8	796.3	779.8	760.8	757.2	738.8	716.2
5°	934.7	931.8	929.8	920.7	909.2	887.8	857.9	822.4	815.6	780.4	735.2
7.5°	1009.6	1014.8	1014.8	1009.0	994.6	978.5	941.8	893.4	884.9	830.9	760.8
10°	1053.3	1059.7	1064.7	1069.7	1067.6	1061.2	1026.6	972.0	961.7	890.1	790.4
12.5°	1057.4	1063.8	1077.9	1098.7	1119.0	1133.7	1111.9	1059.1	1047.4	958.8	825.6
15°	1034.5	1041.2	1063.0	1103.4	1152.4	1195.3	1202.3	1155.7	1143.6	1040.7	869.6
17.5°	994.6	999.0	1030.1	1086.1	1163.0	1241.6	1284.2	1259.2	1248.1	1134.2	918.6
20°	965.0	968.2	995.5	1055.6	1156.5	1270.7	1361.6	1369.3	1357.5	1234.6	971.7
22.5°	1015.7	1021.6	1022.5	1050.9	1138.9	1285.0	1429.7	1477.5	1468.7	1341.1	1023.9
25°	1154.5	1161.2	1138.9	1121.3	1153.9	1291.5	1488.1	1588.4	1581.4	1455.8	1076.4
27.5°	1337.9	1344.9	1316.1	1263.6	1232.2	1315.9	1540.0	1701.1	1700.8	1577.3	1133.1
30°	1518.0	1525.0	1495.7	1443.2	1371.0	1384.8	1584.9	1819.0	1820.8	1702.5	1193.2
32.5°	1706.9	1715.7	1685.5	1618.0	1542.6	1503.9	1648.0	1937.5	1947.5	1847.8	1261.0
35°	1921.7	1922.9	1880.3	1809.6	1722.8	1663.2	1749.2	2070.5	2094.2	2027.6	1347.0
37.5°	2132.4	2140.9	2106.0	1994.5	1914.7	1847.2	1899.7	2236.5	2270.3	2247.4	1459.3
40°	2288.4	2306.3	2301.4	2181.1	2105.4	2057.3	2086.6	2434.0	2476.8	2503.2	1601.0
42.5°	2386.4	2399.9	2422.8	2350.3	2281.7	2289.6	2307.2	2664.0	2716.8	2794.8	1763.9
45°	2498.8	2505.3	2524.3	2492.3	2446.0	2525.8	2541.3	2923.0	2978.5	3108.5	1944.6
47.5°	2636.1	2651.4	2656.6	2627.3	2606.2	2734.7	2767.0	3158.6	3236.4	3444.4	2135.9
50°	2811.0	2815.1	2824.2	2805.1	2784.0	2914.2	2969.4	3406.0	3476.7	3781.5	2324.5
52.5°	2982.0	2996.7	3028.4	3016.3	3007.8	3067.1	3149.8	3628.9	3707.9	4062.6	2512.9
55°	3031.3	3043.9	3153.4	3228.2	3297.4	3255.5	3322.3	3828.7	3914.1	4313.7	2694.2
57.5°	2834.4	2860.0	3049.5	3244.3	3531.5	3548.3	3559.4	4033.8	4110.4	4506.2	2882.9
60°	2336.9	2341.8	2652.8	2987.0	3492.8	3803.8	3905.6	4254.2	4318.4	4685.4	3108.8
62.5°	1486.3	1537.1	1878.3	2350.1	3083.2	3766.8	4324.3	4587.4	4610.9	4900.5	3432.7
65°	708.0	740.8	986.7	1452.0	2233.3	3293.6	4613.3	5190.4	5200.9	5326.8	3865.4
67.5°	392.0	407.8	524.9	781.6	1305.6	2329.2	4496.5	5904.5	5914.4	5762.2	4245.1
69°	306.6	320.1	412.2	589.1	885.2	1674.1	4069.0	6113.7	6143.3	5886.9	4258.6
70°	260.2	273.4	355.0	497.6	711.8	1293.6	3621.9	6061.7	6093.1	5875.1	4157.9
72.5°	159.3	166.9	236.5	350.3	477.1	650.7	2233.6	5126.4	5179.5	5389.3	3573.5
75°	107.4	111.5	147.9	241.8	341.2	335.1	1160.4	3613.4	3728.4	4192.2	2639.3
77.5°	76.9	80.7	99.2	156.4	239.1	221.2	525.5	2245.6	2270.3	2514.4	1439.4
80°	43.7	47.2	70.1	93.0	162.2	147.6	208.9	1072.6	1085.0	1078.2	480.6
82.5°	22.9	25.8	38.4	61.3	104.2	96.5	86.8	359.1	360.9	300.1	105.3
85°	4.4	5.3	19.1	42.0	53.7	42.0	35.5	84.2	86.0	76.0	26.1
87.5°	0.0	0.3	7.6	9.4	10.6	10.9	11.4	16.4	17.6	23.8	7.0
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°	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
2.5°	706.2	695.6	675.4	651.9	633.7	615.8	601.7	587.1	581.8	579.2	578.9
5°	713.2	690.9	648.1	604.1	568.0	534.0	509.6	486.4	475.6	470.6	468.5
7.5°	725.0	689.2	620.2	553.0	501.1	458.6	424.8	399.6	387.0	381.7	379.6
10°	738.8	686.8	587.7	499.1	432.8	388.7	355.3	330.4	316.6	310.7	307.8
12.5°	754.9	682.7	550.1	444.5	374.4	330.4	289.9	259.1	243.2	236.5	233.2
15°	774.8	678.6	510.8	393.1	323.0	269.3	225.0	204.2	201.0	199.8	200.1
17.5°	794.5	672.2	468.0	342.4	269.0	210.4	187.8	186.6	187.2	187.2	187.2
20°	812.1	657.5	421.3	299.0	217.7	177.5	172.8	170.8	169.3	168.1	166.6
22.5°	825.9	637.8	376.4	255.8	177.8	162.5	155.2	148.7	143.5	139.9	138.2
25°	835.3	611.7	335.3	214.5	159.9	147.9	134.7	123.8	115.6	110.6	108.6
27.5°	842.3	583.6	298.7	179.6	147.6	130.9	113.5	100.6	92.1	87.7	86.0
30°	847.3	551.6	266.4	157.8	133.8	113.0	94.5	81.9	75.7	73.3	72.2
32.5°	852.0	516.1	235.9	147.6	120.9	96.5	79.2	69.5	65.7	62.8	61.9
35°	863.7	483.2	206.8	136.7	107.7	82.4	68.1	61.0	57.2	55.5	54.9
37.5°	891.6	458.9	179.0	125.6	94.5	71.3	59.6	54.6	51.0	49.3	48.7
40°	936.5	446.5	155.5	113.5	81.6	62.8	54.0	49.3	45.5	42.8	42.2
42.5°	1002.5	448.3	139.1	101.5	71.3	56.0	48.7	43.1	39.0	36.7	36.1
45°	1082.6	461.2	127.6	89.8	62.8	50.8	42.8	37.0	33.2	31.1	30.5
47.5°	1169.5	482.0	118.2	79.2	56.0	45.8	37.0	30.8	27.6	25.8	25.5
50°	1261.0	502.3	108.6	68.9	50.2	40.8	31.1	25.5	22.9	21.4	20.8
52.5°	1353.7	525.8	99.8	59.6	45.2	34.9	25.8	20.8	18.8	17.6	17.0
55°	1453.5	543.4	91.2	52.2	40.2	29.6	21.4	17.3	15.5	14.1	13.8
57.5°	1570.8	570.6	82.4	45.2	34.3	24.6	17.6	13.8	12.3	10.9	10.6
60°	1729.2	602.6	73.1	39.9	28.2	20.2	14.4	11.1	9.4	8.2	7.9
62.5°	1938.1	638.1	61.3	34.9	22.9	16.4	11.4	8.8	6.7	5.3	5.3
65°	2203.1	695.9	50.2	29.3	18.8	13.5	8.8	6.5	3.8	2.3	2.3
67.5°	2357.7	705.9	40.5	24.1	15.3	11.4	7.3	4.4	1.2	0.3	0.0
69°	2308.1	648.1	34.3	20.5	13.2	10.9	6.7	3.2	0.6	0.0	0.0
70°	2214.8	592.6	30.2	18.2	12.0	10.3	6.5	2.3	0.6	0.0	0.0
72.5°	1830.2	421.9	22.9	13.5	8.8	9.1	5.9	1.5	0.6	0.0	0.0
75°	1333.2	256.4	16.4	9.4	5.6	6.7	4.1	0.6	0.3	0.0	0.0
77.5°	741.7	120.9	10.3	5.3	3.5	4.1	2.1	0.0	0.0	0.0	0.0
80°	240.9	32.9	4.7	2.9	2.1	2.3	0.9	0.0	0.0	0.0	0.0
82.5°	44.6	9.4	2.6	1.5	0.6	0.6	0.0	0.0	0.0	0.0	0.0
85°	9.7	3.8	1.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)