

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: P321871

Luminaire Tested: **GAN-SA7A-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321871
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-SA7A-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 21356 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

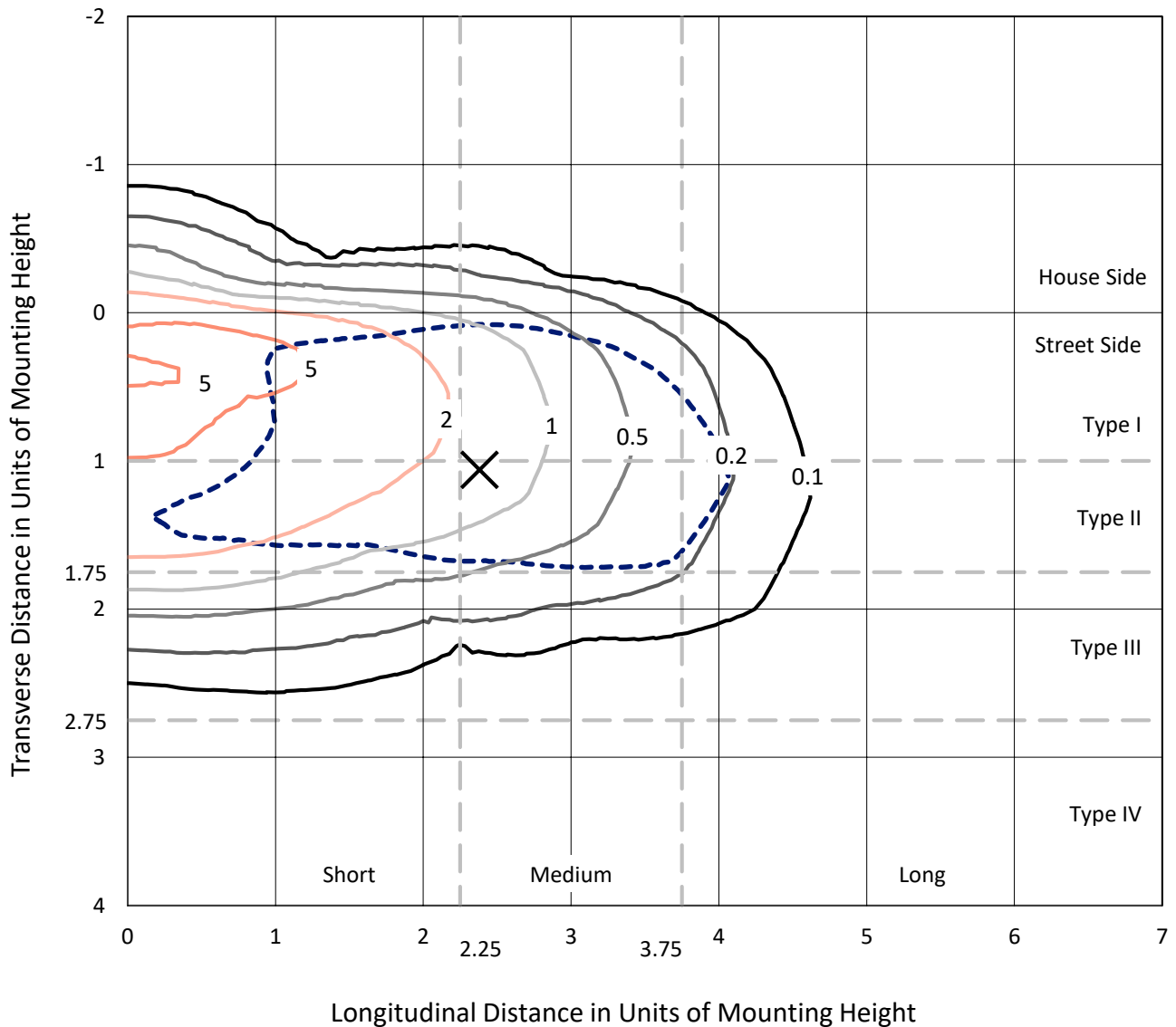
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321871
 CATALOG NUMBER: GAN-SA7A-730-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

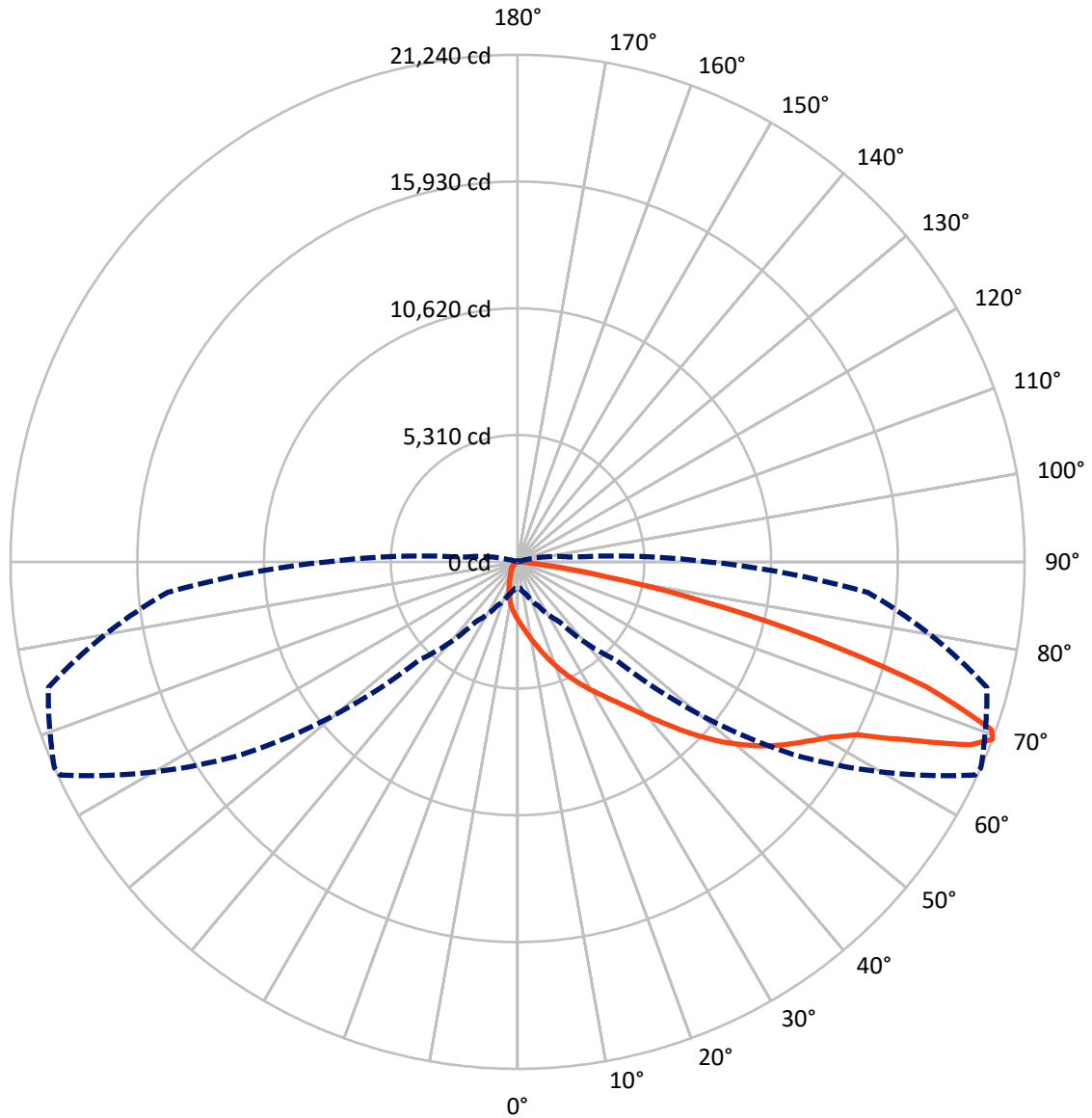
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P321871
CATALOG NUMBER: GAN-SA7A-730-U-T2-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GAN-SA7A-730-U-T2-HSS

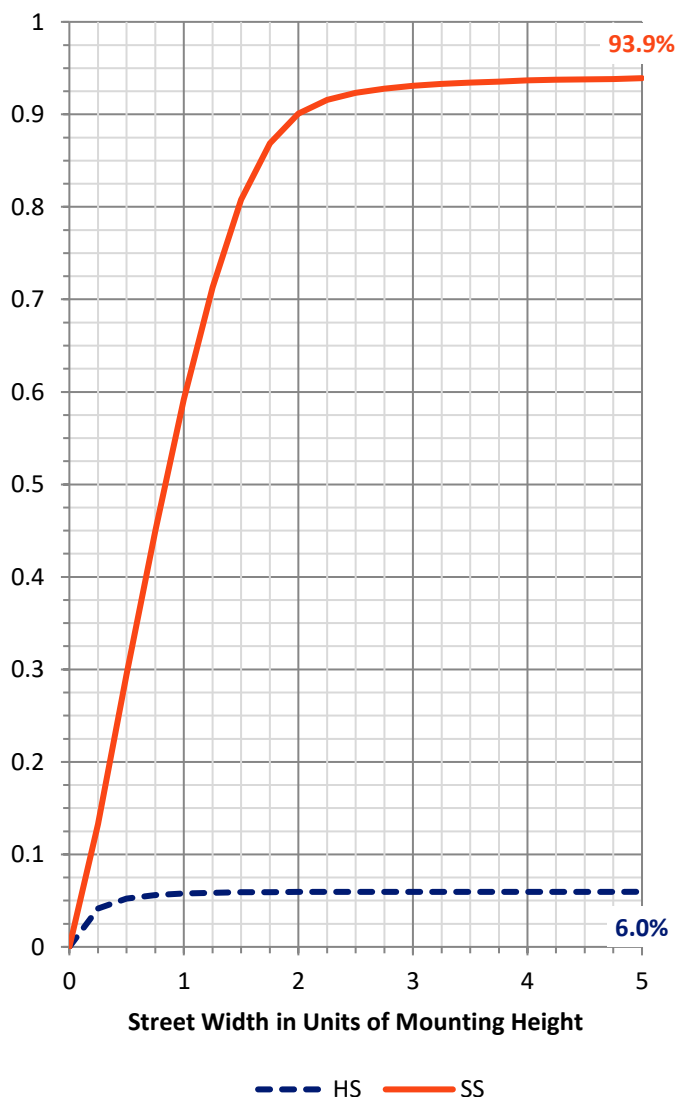
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1281.1	0.0	1281.1
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	20074.9	0.0	20074.9
	% Fixture	94.0	0.0	94.0
Total	Lumens	21356.0	0.0	21356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.9	1.1
10°-20°	699.2	3.3
20°-30°	1217.5	5.7
30°-40°	2136.2	10.0
40°-50°	3575.6	16.7
50°-60°	5255.9	24.6
60°-70°	5396.4	25.3
70°-80°	2664.1	12.5
80°-90°	176.1	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°	21356.0	100.0
0°-180°	21356.0	100.0

Coefficient of Utilization

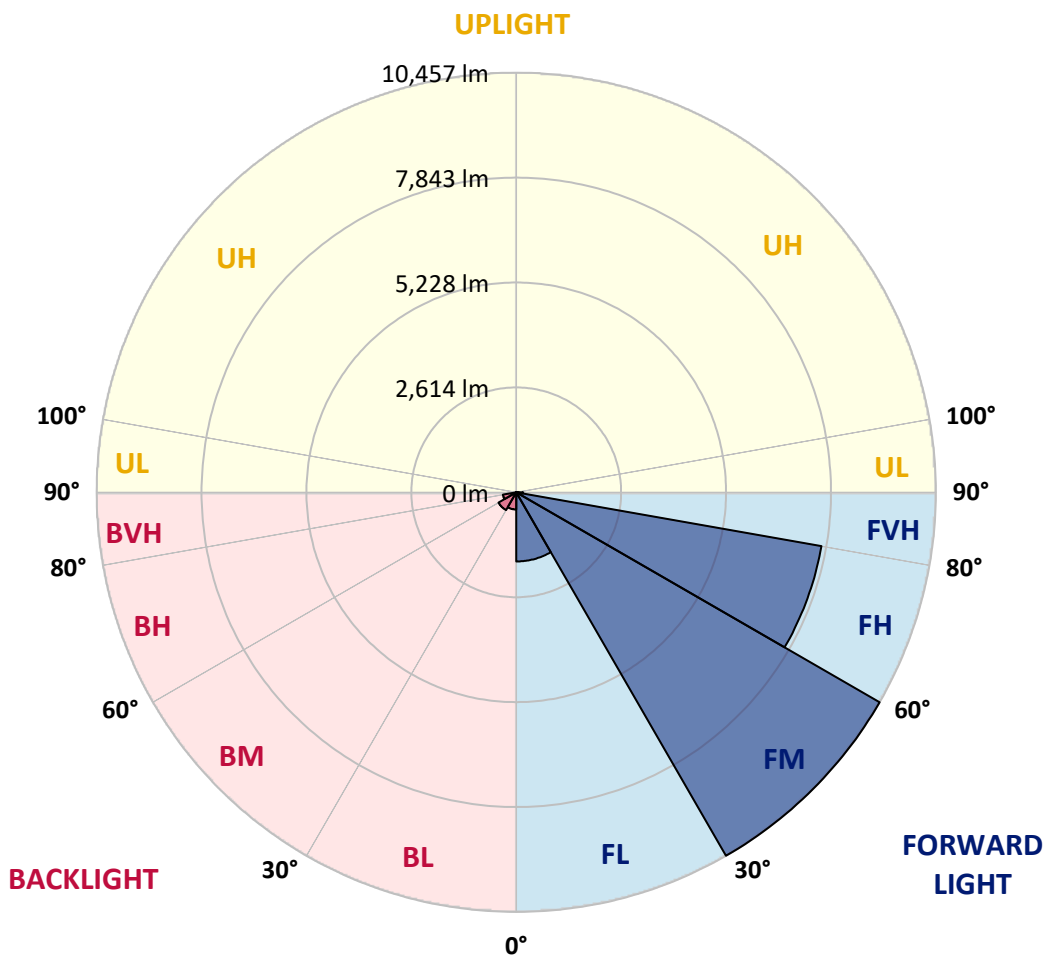


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 CATALOG NUMBER: GAN-SA7A-730-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1723.2	8.1			
FM (30°-60°)	10456.9	49.0			
FH (60°-80°)	7722.9	36.2			G4/12000
FVH (80°-90°)	171.9	0.8			G2/225
BL (0°-30°)	428.4	2.0	B1/500		
BM (30°-60°)	510.8	2.4	B1/1000		
BH (60°-80°)	337.6	1.6	B1/500		G1/500
BVH (80°-90°)	4.3	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-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4
2.5°	2860.5	2848.3	2843.2	2820.9	2782.4	2752.9	2696.1	2630.2	2618.0	2554.1	2476.0
5°	3231.7	3221.6	3214.5	3183.0	3143.5	3069.4	2966.0	2843.2	2819.9	2698.2	2542.0
7.5°	3490.4	3508.6	3508.6	3488.3	3438.6	3382.9	3256.1	3088.7	3059.3	2872.6	2630.2
10°	3641.5	3663.8	3681.1	3698.3	3691.2	3668.9	3549.2	3360.5	3325.0	3077.5	2732.7
12.5°	3655.7	3678.0	3726.7	3798.7	3868.7	3919.4	3844.4	3661.8	3621.2	3314.9	2854.4
15°	3576.6	3599.9	3675.0	3815.0	3984.4	4132.5	4156.8	3995.5	3953.9	3597.9	3006.5
17.5°	3438.6	3453.9	3561.4	3755.1	4020.9	4292.7	4439.8	4353.6	4315.0	3921.5	3175.9
20°	3336.2	3347.4	3441.7	3649.6	3998.6	4393.1	4707.6	4734.0	4693.4	4268.4	3359.5
22.5°	3511.7	3532.0	3535.0	3633.4	3937.7	4442.9	4942.9	5108.3	5077.8	4636.6	3540.1
25°	3991.5	4014.8	3937.7	3876.8	3989.4	4465.2	5144.8	5491.7	5467.3	5033.2	3721.6
27.5°	4625.4	4649.8	4550.4	4368.8	4260.3	4549.4	5324.3	5881.2	5880.2	5453.1	3917.4
30°	5248.2	5272.6	5171.2	4989.6	4740.1	4787.7	5479.5	6289.0	6295.1	5886.3	4125.4
32.5°	5901.5	5931.9	5827.4	5594.1	5333.4	5199.6	5697.6	6698.8	6733.3	6388.4	4359.7
35°	6644.0	6648.0	6501.0	6256.5	5956.3	5750.3	6047.6	7158.3	7240.4	7010.2	4656.9
37.5°	7372.3	7401.7	7281.0	6895.5	6619.6	6386.3	6567.9	7732.4	7849.0	7769.9	5045.4
40°	7911.9	7973.8	7956.6	7540.7	7279.0	7112.6	7214.1	8415.0	8563.1	8654.4	5535.3
42.5°	8250.7	8297.4	8376.5	8126.0	7888.6	7916.0	7976.8	9210.3	9392.9	9662.7	6098.3
45°	8639.2	8661.5	8727.5	8616.9	8456.6	8732.5	8786.3	10106.0	10297.7	10747.0	6723.1
47.5°	9113.9	9166.7	9184.9	9083.5	9010.5	9454.8	9566.3	10920.5	11189.3	11908.5	7384.5
50°	9718.5	9732.7	9764.1	9698.2	9625.2	10075.5	10266.2	11775.6	12020.0	13074.0	8036.7
52.5°	10309.8	10360.6	10470.1	10428.5	10399.1	10604.0	10890.1	12546.5	12819.3	14045.7	8687.9
55°	10480.3	10523.9	10902.2	11160.9	11400.3	11255.2	11486.5	13237.3	13532.4	14914.0	9314.8
57.5°	9799.6	9887.9	10543.1	11216.7	12209.7	12267.5	12306.1	13946.3	14211.0	15579.4	9967.0
60°	8079.3	8096.5	9171.7	10327.1	12075.8	13151.0	13503.0	14708.1	14930.2	16199.2	10748.0
62.5°	5138.7	5314.2	6493.9	8124.9	10659.8	13023.2	14950.5	15860.4	15941.5	16942.7	11867.9
65°	2447.6	2561.2	3411.3	5020.0	7721.2	11387.1	15949.6	17944.9	17981.4	18416.5	13364.1
67.5°	1355.2	1409.9	1814.7	2702.2	4513.9	8052.9	15545.9	20413.8	20448.3	19921.8	14676.6
69°	1060.0	1106.7	1425.2	2036.8	3060.3	5787.9	14068.0	21137.0	21239.5	20352.9	14723.3
70°	899.7	945.4	1227.4	1720.3	2460.8	4472.3	12522.1	20957.5	21066.0	20312.3	14375.4
72.5°	550.8	577.2	817.6	1211.1	1649.3	2249.8	7722.2	17723.7	17907.3	18632.6	12354.8
75°	371.3	385.5	511.2	835.8	1179.7	1158.4	4011.8	12492.7	12890.4	14494.0	9125.1
77.5°	265.8	278.9	342.9	540.6	826.7	764.8	1816.7	7763.8	7849.0	8693.0	4976.4
80°	151.1	163.3	242.4	321.5	560.9	510.2	722.2	3708.5	3751.1	3727.7	1661.5
82.5°	79.1	89.3	132.9	212.0	360.1	333.7	300.2	1241.6	1247.6	1037.7	364.2
85°	15.2	18.3	65.9	145.1	185.6	145.1	122.7	291.1	297.2	262.7	90.3
87.5°	0.0	1.0	26.4	32.5	36.5	37.5	39.6	56.8	60.9	82.2	24.3
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°	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4	2430.4
2.5°	2441.5	2405.0	2335.0	2253.9	2191.0	2129.1	2080.4	2029.7	2011.5	2002.3	2001.3
5°	2465.9	2388.8	2240.7	2088.5	1963.8	1846.1	1761.9	1681.8	1644.3	1627.0	1619.9
7.5°	2506.5	2382.7	2144.3	1912.0	1732.5	1585.4	1468.8	1381.5	1337.9	1319.7	1312.6
10°	2554.1	2374.6	2031.7	1725.4	1496.2	1344.0	1228.4	1142.2	1094.5	1074.2	1064.1
12.5°	2609.9	2360.4	1901.9	1536.7	1294.3	1142.2	1002.2	895.7	840.9	817.6	806.4
15°	2678.9	2346.2	1766.0	1359.2	1116.8	931.2	778.0	706.0	694.8	690.8	691.8
17.5°	2746.9	2323.9	1617.9	1183.7	930.2	727.3	649.2	645.1	647.2	647.2	647.2
20°	2807.7	2273.2	1456.6	1033.6	752.6	613.7	597.5	590.4	585.3	581.2	576.2
22.5°	2855.4	2205.2	1301.4	884.5	614.7	561.9	536.6	514.3	496.0	483.8	477.8
25°	2887.9	2114.9	1159.4	741.5	552.8	511.2	465.6	428.1	399.7	382.4	375.3
27.5°	2912.2	2017.5	1032.6	620.8	510.2	452.4	392.6	347.9	318.5	303.3	297.2
30°	2929.4	1907.0	921.0	545.7	462.5	390.5	326.6	283.0	261.7	253.6	249.5
32.5°	2945.7	1784.2	815.5	510.2	417.9	333.7	273.9	240.4	227.2	217.1	214.0
35°	2986.2	1670.6	715.1	472.7	372.3	285.0	235.3	211.0	197.8	191.7	189.7
37.5°	3082.6	1586.4	618.8	434.1	326.6	246.5	205.9	188.7	176.5	170.4	168.4
40°	3237.8	1543.8	537.6	392.6	282.0	217.1	186.6	170.4	157.2	148.1	146.1
42.5°	3466.0	1549.9	480.8	351.0	246.5	193.7	168.4	149.1	134.9	126.8	124.8
45°	3742.9	1594.6	441.2	310.4	217.1	175.5	148.1	127.8	114.6	107.5	105.5
47.5°	4043.2	1666.6	408.8	273.9	193.7	158.2	127.8	106.5	95.3	89.3	88.2
50°	4359.7	1736.6	375.3	238.4	173.5	141.0	107.5	88.2	79.1	74.0	72.0
52.5°	4680.2	1817.7	344.9	205.9	156.2	120.7	89.3	72.0	64.9	60.9	58.8
55°	5025.1	1878.6	315.5	180.6	139.0	102.4	74.0	59.8	53.8	48.7	47.7
57.5°	5430.8	1972.9	285.0	156.2	118.7	85.2	60.9	47.7	42.6	37.5	36.5
60°	5978.6	2083.5	252.6	138.0	97.4	70.0	49.7	38.5	32.5	28.4	27.4
62.5°	6700.8	2206.2	212.0	120.7	79.1	56.8	39.6	30.4	23.3	18.3	18.3
65°	7616.8	2406.0	173.5	101.4	64.9	46.7	30.4	22.3	13.2	8.1	8.1
67.5°	8151.3	2440.5	140.0	83.2	52.7	39.6	25.4	15.2	4.1	1.0	0.0
69°	7979.9	2240.7	118.7	71.0	45.6	37.5	23.3	11.2	2.0	0.0	0.0
70°	7657.3	2049.0	104.5	62.9	41.6	35.5	22.3	8.1	2.0	0.0	0.0
72.5°	6327.5	1458.6	79.1	46.7	30.4	31.4	20.3	5.1	2.0	0.0	0.0
75°	4609.2	886.5	56.8	32.5	19.3	23.3	14.2	2.0	1.0	0.0	0.0
77.5°	2564.3	417.9	35.5	18.3	12.2	14.2	7.1	0.0	0.0	0.0	0.0
80°	832.8	113.6	16.2	10.1	7.1	8.1	3.0	0.0	0.0	0.0	0.0
82.5°	154.2	32.5	9.1	5.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	33.5	13.2	5.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	4.1	1.0	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)