

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: P321939

Luminaire Tested: **GAN-SA5D-740-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321939
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-SA5D-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA 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: 27587 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

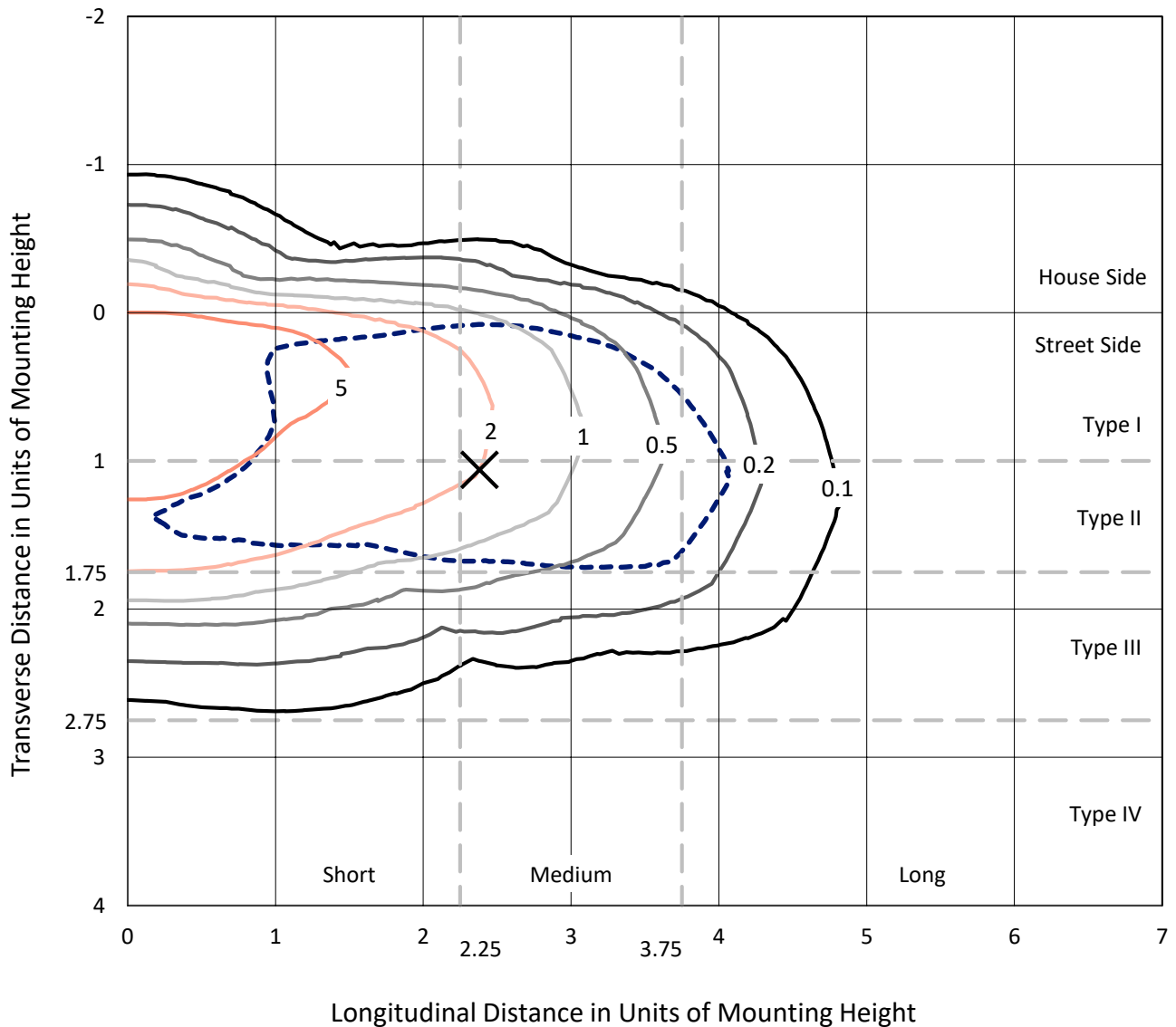
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

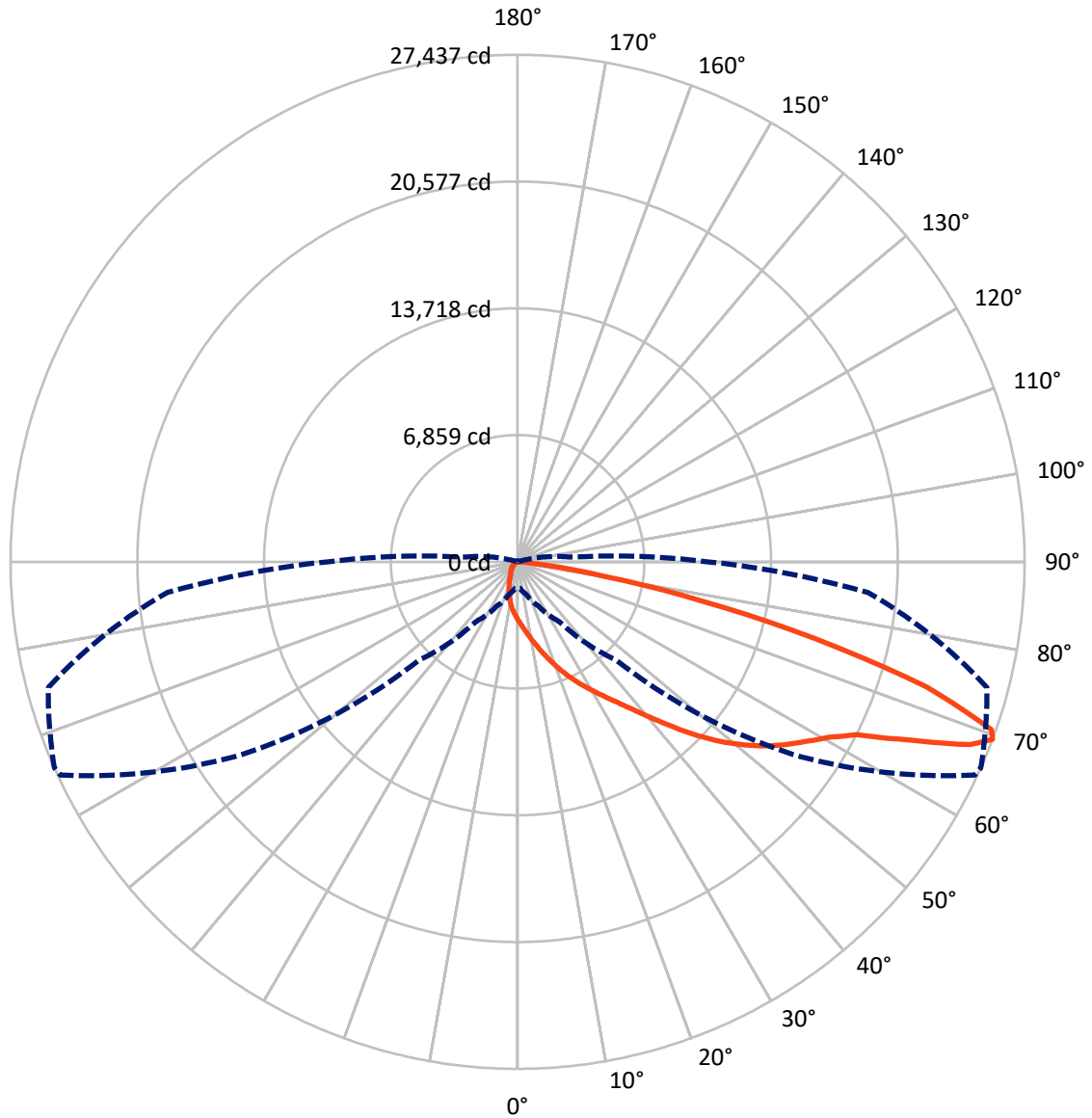
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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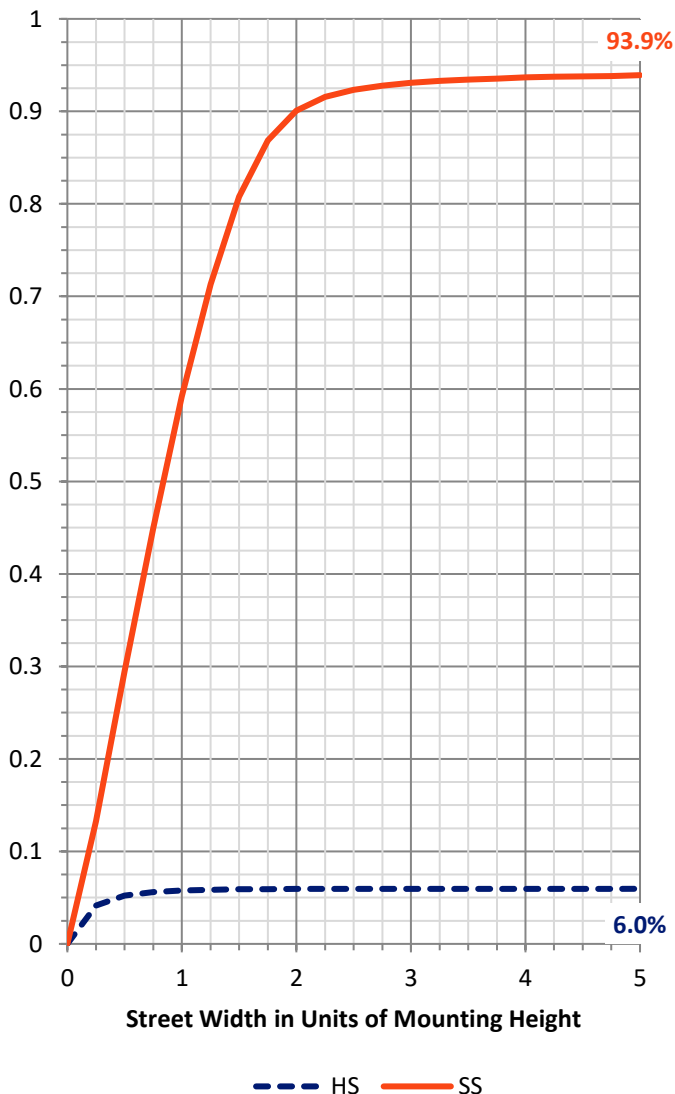
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1654.8	0.0	1654.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	25932.2	0.0	25932.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	27587.0	0.0	27587.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.5	1.1
10°-20°	903.2	3.3
20°-30°	1572.8	5.7
30°-40°	2759.5	10.0
40°-50°	4618.9	16.7
50°-60°	6789.3	24.6
60°-70°	6970.9	25.3
70°-80°	3441.4	12.5
80°-90°	227.5	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°	27587.0	100.0
0°-180°	27587.0	100.0

Coefficient of Utilization



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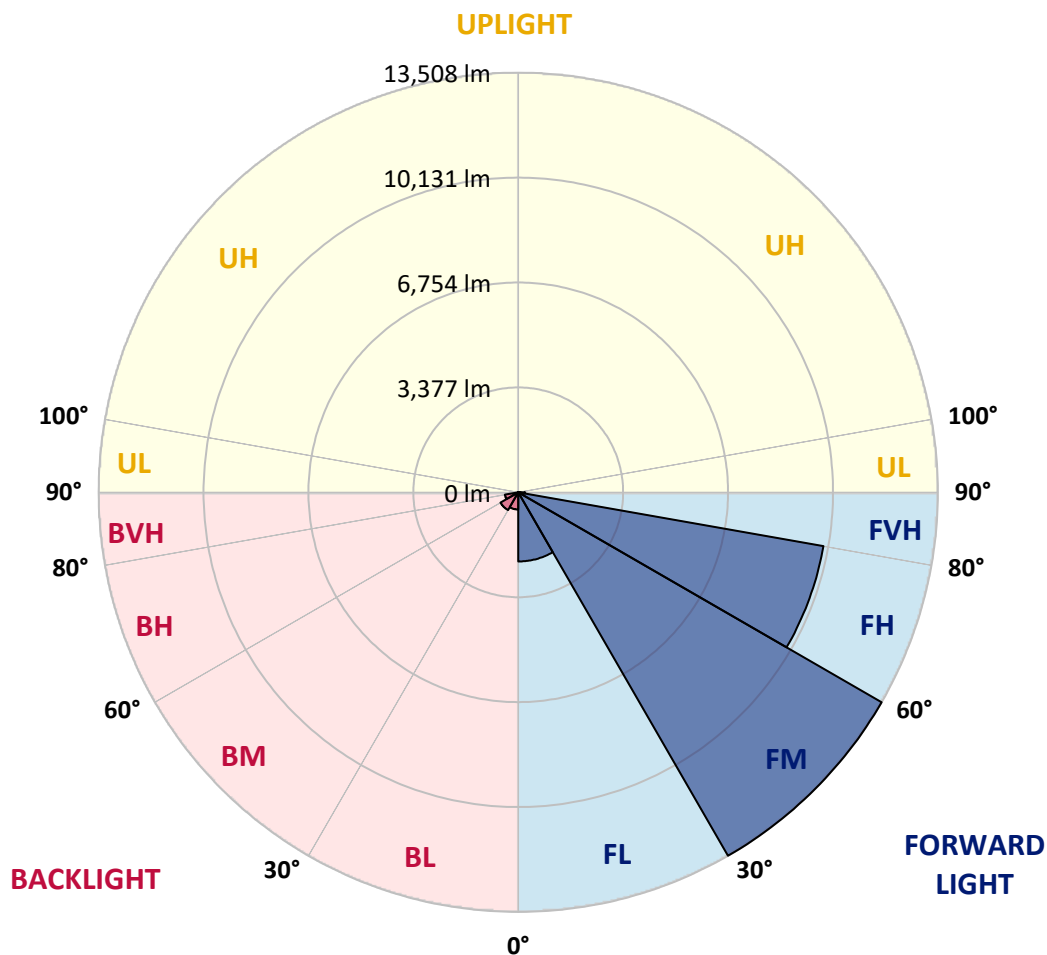
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2226.0	8.1			
FM (30°-60°)	13507.9	49.0			
FH (60°-80°)	9976.2	36.2			G4/12000
FVH (80°-90°)	222.0	0.8			G2/225
BL (0°-30°)	553.4	2.0	B2/1000		
BM (30°-60°)	659.8	2.4	B1/1000		
BH (60°-80°)	436.1	1.6	B1/500		G1/500
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5
2.5°	3695.1	3679.3	3672.8	3644.0	3594.2	3556.2	3482.8	3397.6	3381.9	3299.3	3198.5
5°	4174.6	4161.5	4152.4	4111.7	4060.6	3965.0	3831.3	3672.8	3642.6	3485.4	3283.6
7.5°	4508.8	4532.3	4532.3	4506.1	4441.9	4369.9	4206.1	3989.9	3951.9	3710.8	3397.6
10°	4704.0	4732.8	4755.1	4777.4	4768.2	4739.4	4584.8	4341.0	4295.2	3975.5	3530.0
12.5°	4722.3	4751.2	4814.1	4907.1	4997.5	5063.0	4966.1	4730.2	4677.8	4282.1	3687.2
15°	4620.1	4650.3	4747.2	4928.1	5146.9	5338.2	5369.6	5161.3	5107.6	4647.6	3883.7
17.5°	4441.9	4461.6	4600.5	4850.7	5194.0	5545.2	5735.2	5623.8	5574.0	5065.6	4102.6
20°	4309.6	4324.0	4445.9	4714.5	5165.2	5674.9	6081.1	6115.2	6062.8	5513.8	4339.7
22.5°	4536.3	4562.5	4566.4	4693.5	5086.6	5739.1	6385.1	6598.7	6559.4	5989.4	4573.0
25°	5156.0	5186.2	5086.6	5008.0	5153.4	5768.0	6645.9	7094.0	7062.5	6501.7	4807.5
27.5°	5975.0	6006.4	5878.0	5643.5	5503.3	5876.7	6877.8	7597.1	7595.8	7044.2	5060.4
30°	6779.5	6811.0	6679.9	6445.4	6123.1	6184.6	7078.3	8123.9	8131.7	7603.7	5329.0
32.5°	7623.4	7662.7	7527.7	7226.3	6889.6	6716.6	7360.0	8653.2	8697.8	8252.3	5631.7
35°	8582.5	8587.7	8397.7	8082.0	7694.1	7428.1	7812.0	9246.8	9353.0	9055.5	6015.6
37.5°	9523.3	9561.3	9405.4	8907.4	8551.0	8249.7	8484.2	9988.4	10139.1	10036.9	6517.5
40°	10220.4	10300.3	10278.0	9740.8	9402.7	9187.9	9318.9	10870.3	11061.6	11179.5	7150.3
42.5°	10658.0	10718.3	10820.5	10496.8	10190.2	10225.6	10304.2	11897.6	12133.4	12482.0	7877.5
45°	11159.9	11188.7	11273.9	11131.0	10924.0	11280.4	11349.9	13054.6	13302.2	13882.7	8684.7
47.5°	11773.1	11841.2	11864.8	11733.8	11639.4	12213.3	12357.5	14106.7	14454.0	15383.0	9539.0
50°	12554.0	12572.4	12613.0	12527.8	12433.5	13015.3	13261.6	15211.3	15527.1	16888.5	10381.5
52.5°	13317.9	13383.4	13525.0	13471.2	13433.2	13697.9	14067.4	16207.2	16559.6	18143.8	11222.8
55°	13538.1	13594.4	14083.2	14417.3	14726.5	14539.1	14837.9	17099.5	17480.8	19265.4	12032.5
57.5°	12658.9	12772.8	13619.3	14489.3	15772.1	15846.8	15896.6	18015.4	18357.4	20125.0	12875.1
60°	10436.6	10458.8	11847.8	13340.2	15599.2	16988.1	17442.8	18999.4	19286.4	20925.6	13884.0
62.5°	6638.0	6864.7	8388.6	10495.5	13770.0	16823.0	19312.6	20487.9	20592.7	21886.0	15330.6
65°	3161.8	3308.5	4406.6	6484.7	9974.0	14709.5	20603.2	23180.6	23227.8	23789.9	17263.3
67.5°	1750.6	1821.3	2344.1	3490.7	5830.9	10402.5	20081.7	26369.9	26414.4	25734.4	18958.8
69°	1369.3	1429.5	1841.0	2631.1	3953.2	7476.6	18172.6	27304.1	27436.5	26291.3	19019.1
70°	1162.2	1221.2	1585.5	2222.3	3178.8	5777.1	16175.7	27072.2	27212.4	26238.8	18569.6
72.5°	711.5	745.6	1056.1	1564.5	2130.6	2906.3	9975.3	22894.9	23132.1	24069.0	15959.5
75°	479.6	497.9	660.4	1079.7	1523.9	1496.4	5182.3	16137.7	16651.3	18722.9	11787.5
77.5°	343.3	360.3	442.9	698.4	1067.9	988.0	2346.8	10029.1	10139.1	11229.3	6428.4
80°	195.2	211.0	313.2	415.4	724.6	659.1	932.9	4790.5	4845.5	4815.4	2146.3
82.5°	102.2	115.3	171.6	273.9	465.2	431.1	387.9	1603.8	1611.7	1340.4	470.4
85°	19.7	23.6	85.2	187.4	239.8	187.4	158.5	376.1	383.9	339.4	116.6
87.5°	0.0	1.3	34.1	41.9	47.2	48.5	51.1	73.4	78.6	106.1	31.4
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°	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5
2.5°	3153.9	3106.7	3016.3	2911.5	2830.3	2750.3	2687.4	2621.9	2598.3	2586.5	2585.2
5°	3185.3	3085.8	2894.5	2697.9	2536.7	2384.8	2276.0	2172.5	2124.0	2101.7	2092.6
7.5°	3237.8	3077.9	2770.0	2469.9	2238.0	2048.0	1897.3	1784.6	1728.3	1704.7	1695.5
10°	3299.3	3067.4	2624.5	2228.8	1932.7	1736.2	1586.8	1475.4	1413.8	1387.6	1374.5
12.5°	3371.4	3049.1	2456.8	1985.1	1671.9	1475.4	1294.6	1157.0	1086.2	1056.1	1041.7
15°	3460.5	3030.7	2281.2	1755.8	1442.6	1202.9	1005.0	912.0	897.6	892.3	893.6
17.5°	3548.3	3001.9	2089.9	1529.1	1201.5	939.5	838.6	833.4	836.0	836.0	836.0
20°	3626.9	2936.4	1881.6	1335.2	972.2	792.7	771.8	762.6	756.0	750.8	744.3
22.5°	3688.5	2848.6	1681.1	1142.6	794.0	725.9	693.2	664.3	640.7	625.0	617.2
25°	3730.4	2732.0	1497.7	957.8	714.1	660.4	601.4	552.9	516.3	494.0	484.8
27.5°	3761.9	2606.2	1333.9	801.9	659.1	584.4	507.1	449.4	411.4	391.8	383.9
30°	3784.2	2463.4	1189.8	704.9	597.5	504.5	421.9	365.6	338.1	327.6	322.3
32.5°	3805.1	2304.8	1053.5	659.1	539.8	431.1	353.8	310.5	293.5	280.4	276.5
35°	3857.5	2158.1	923.8	610.6	480.9	368.2	304.0	272.5	255.5	247.6	245.0
37.5°	3982.0	2049.3	799.3	560.8	421.9	318.4	266.0	243.7	228.0	220.1	217.5
40°	4182.5	1994.3	694.5	507.1	364.3	280.4	241.1	220.1	203.1	191.3	188.7
42.5°	4477.3	2002.1	621.1	453.4	318.4	250.3	217.5	192.6	174.3	163.8	161.2
45°	4835.0	2059.8	570.0	401.0	280.4	226.7	191.3	165.1	148.1	138.9	136.3
47.5°	5222.9	2152.8	528.1	353.8	250.3	204.4	165.1	137.6	123.2	115.3	114.0
50°	5631.7	2243.2	484.8	307.9	224.1	182.1	138.9	114.0	102.2	95.7	93.0
52.5°	6045.7	2348.1	445.5	266.0	201.8	155.9	115.3	93.0	83.9	78.6	76.0
55°	6491.2	2426.7	407.5	233.2	179.5	132.3	95.7	77.3	69.4	62.9	61.6
57.5°	7015.4	2548.5	368.2	201.8	153.3	110.1	78.6	61.6	55.0	48.5	47.2
60°	7722.9	2691.4	326.3	178.2	125.8	90.4	64.2	49.8	41.9	36.7	35.4
62.5°	8655.9	2849.9	273.9	155.9	102.2	73.4	51.1	39.3	30.1	23.6	23.6
65°	9839.1	3108.0	224.1	131.0	83.9	60.3	39.3	28.8	17.0	10.5	10.5
67.5°	10529.6	3152.6	180.8	107.4	68.1	51.1	32.8	19.7	5.2	1.3	0.0
69°	10308.2	2894.5	153.3	91.7	59.0	48.5	30.1	14.4	2.6	0.0	0.0
70°	9891.5	2646.8	135.0	81.2	53.7	45.9	28.8	10.5	2.6	0.0	0.0
72.5°	8173.7	1884.2	102.2	60.3	39.3	40.6	26.2	6.6	2.6	0.0	0.0
75°	5954.0	1145.2	73.4	41.9	24.9	30.1	18.3	2.6	1.3	0.0	0.0
77.5°	3312.4	539.8	45.9	23.6	15.7	18.3	9.2	0.0	0.0	0.0	0.0
80°	1075.8	146.8	21.0	13.1	9.2	10.5	3.9	0.0	0.0	0.0	0.0
82.5°	199.2	41.9	11.8	6.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0
85°	43.2	17.0	6.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.4	5.2	1.3	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)