

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: P383538

Luminaire Tested: **GAN-SA8B-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383538
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-SA8B-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA 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: 30350.8 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

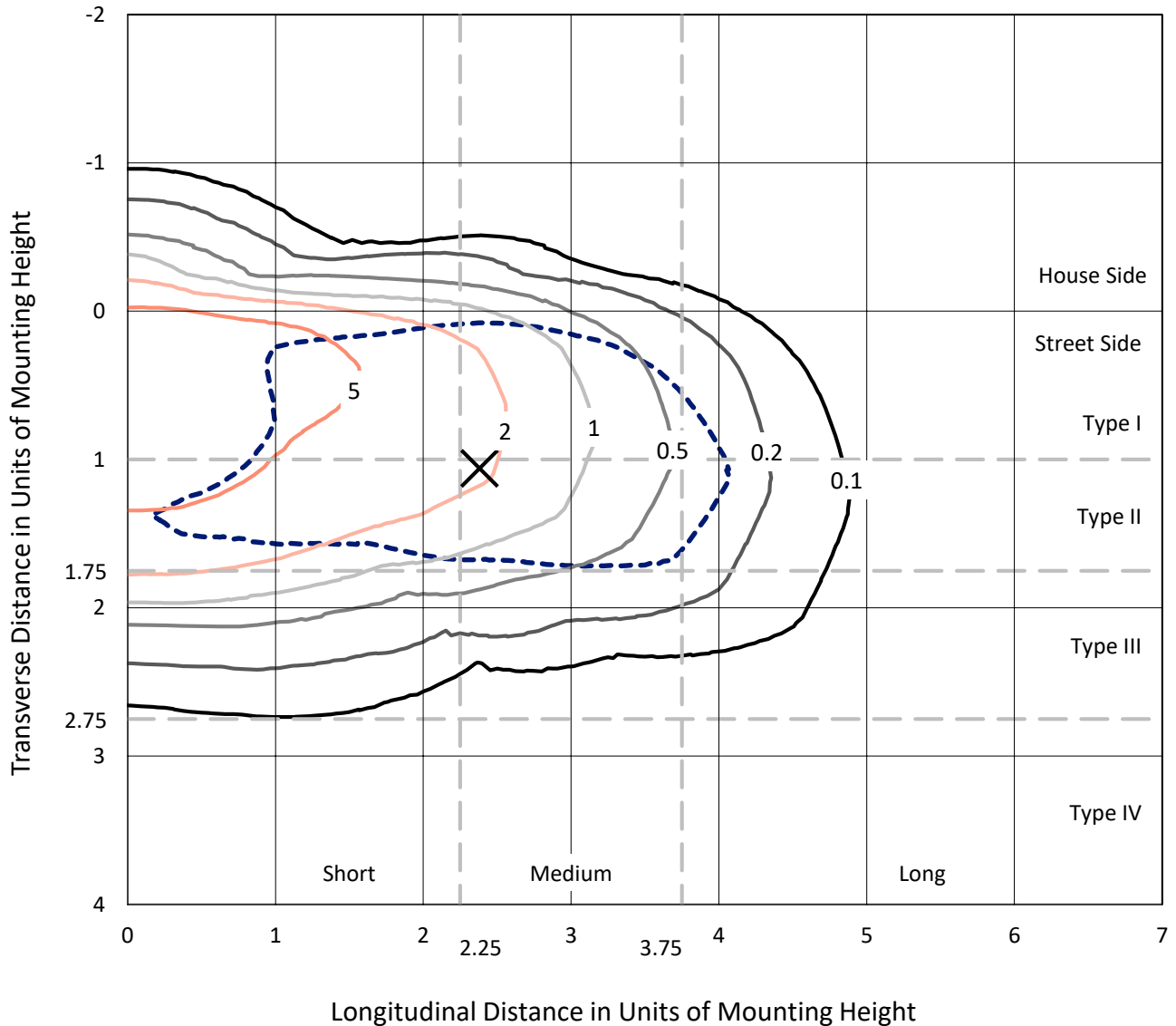
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

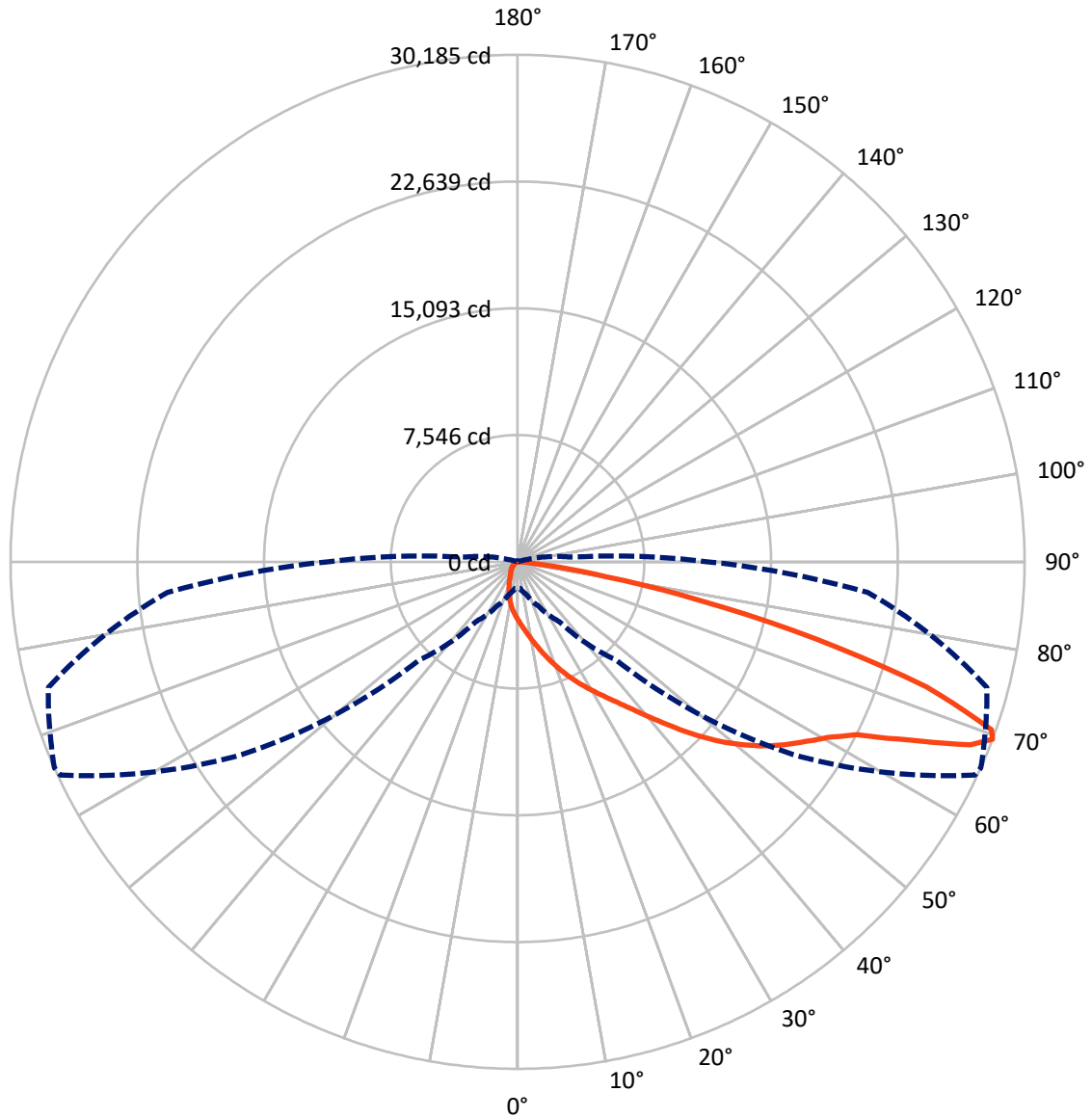
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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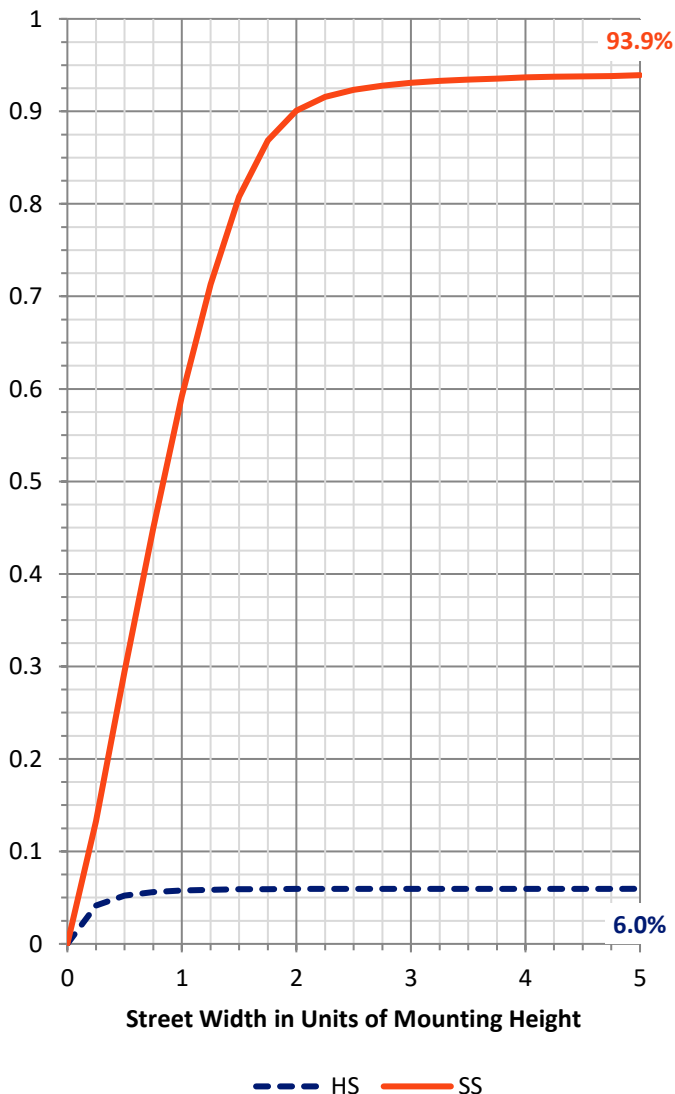
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1820.6	0.0	1820.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	28530.1	0.0	28530.1
	% Fixture	94.0	0.0	94.0
Total	Lumens	30350.8	0.0	30350.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.9	1.1
10°-20°	993.7	3.3
20°-30°	1730.4	5.7
30°-40°	3035.9	10.0
40°-50°	5081.6	16.7
50°-60°	7469.5	24.6
60°-70°	7669.3	25.3
70°-80°	3786.1	12.5
80°-90°	250.3	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°	30350.8	100.0
0°-180°	30350.8	100.0

Coefficient of Utilization



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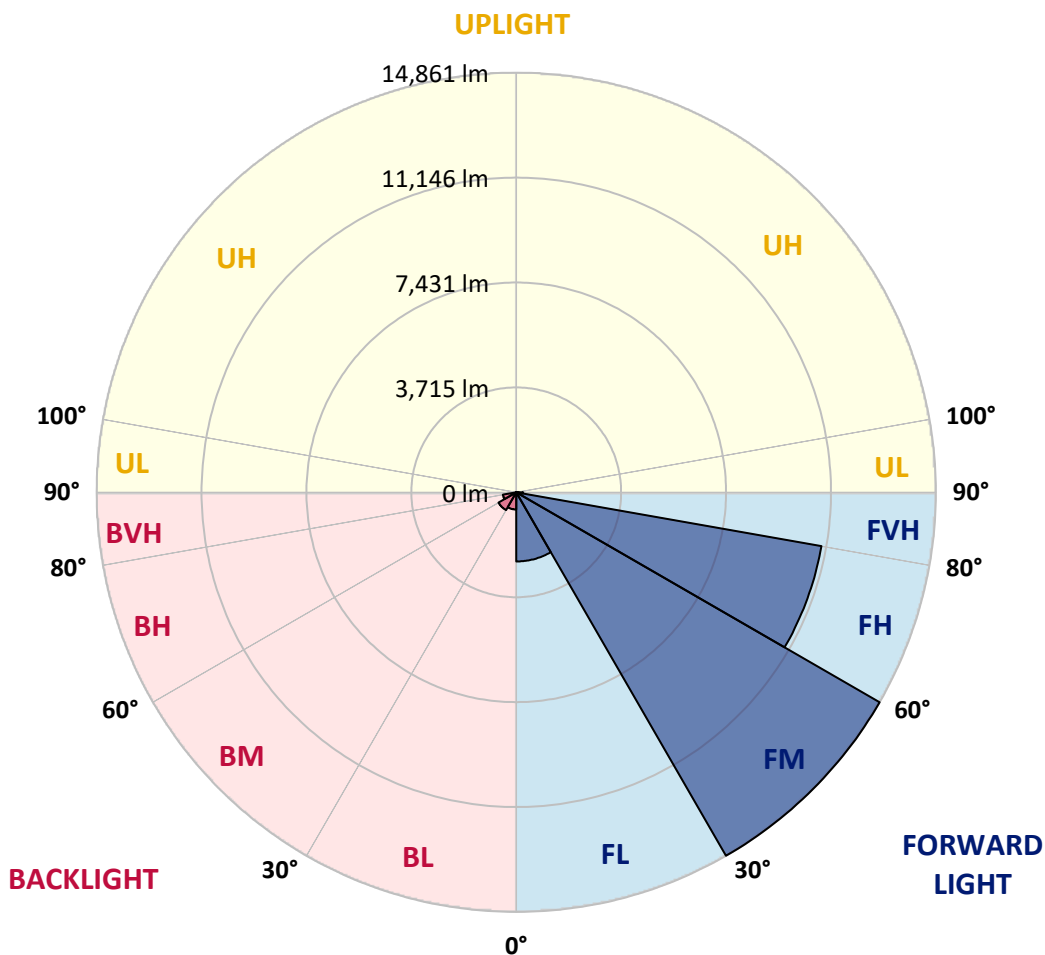
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2449.0	8.1			
FM (30°-60°)	14861.2	49.0			
FH (60°-80°)	10975.6	36.2			G4/12000
FVH (80°-90°)	244.3	0.8			G3/500
BL (0°-30°)	608.9	2.0	B2/1000		
BM (30°-60°)	725.9	2.4	B1/1000		
BH (60°-80°)	479.8	1.6	B1/500		G1/500
BVH (80°-90°)	6.0	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°	3454.0	3454.0	3454.0	3454.0	3454.0	3454.0	3454.0	3454.0	3454.0	3454.0	3454.0
2.5°	4065.3	4047.9	4040.8	4009.0	3954.2	3912.4	3831.7	3738.0	3720.7	3629.9	3518.9
5°	4592.9	4578.5	4568.3	4523.7	4467.4	4362.3	4215.2	4040.8	4007.6	3834.6	3612.5
7.5°	4960.5	4986.4	4986.4	4957.6	4886.9	4807.6	4627.5	4389.6	4347.8	4082.5	3738.0
10°	5175.2	5207.0	5231.5	5256.0	5245.9	5214.2	5044.1	4776.0	4725.5	4373.7	3883.6
12.5°	5195.4	5227.2	5296.3	5398.7	5498.2	5570.3	5463.5	5204.1	5146.4	4711.0	4056.6
15°	5083.0	5116.2	5222.8	5421.8	5662.5	5872.9	5907.6	5678.3	5619.3	5113.3	4272.8
17.5°	4886.9	4908.6	5061.4	5336.7	5714.4	6100.7	6309.7	6187.2	6132.5	5573.2	4513.5
20°	4741.3	4757.2	4891.3	5186.8	5682.7	6243.4	6690.4	6727.8	6670.2	6066.1	4774.5
22.5°	4990.8	5019.6	5023.9	5163.8	5596.2	6314.1	7024.8	7259.7	7216.5	6589.4	5031.1
25°	5672.6	5705.7	5596.2	5509.7	5669.7	6345.8	7311.6	7804.7	7770.1	7153.1	5289.1
27.5°	6573.6	6608.2	6466.9	6208.9	6054.6	6465.5	7566.9	8358.2	8356.8	7749.9	5567.4
30°	7458.7	7493.3	7349.2	7091.1	6736.5	6804.2	7787.4	8937.7	8946.4	8365.5	5862.9
32.5°	8387.1	8430.3	8281.8	7950.3	7579.8	7389.5	8097.3	9520.1	9569.1	9079.0	6195.9
35°	9442.4	9448.0	9239.1	8891.6	8465.0	8172.3	8594.6	10173.2	10290.0	9962.7	6618.3
37.5°	10477.4	10519.1	10347.6	9799.8	9407.7	9076.2	9334.2	10989.1	11154.9	11042.5	7170.4
40°	11244.2	11332.2	11307.7	10716.7	10344.7	10108.3	10252.5	11959.3	12169.7	12299.5	7866.6
42.5°	11725.8	11792.1	11904.5	11548.5	11211.1	11250.0	11336.6	13089.5	13349.0	13732.4	8666.7
45°	12277.9	12309.6	12403.3	12246.2	12018.5	12410.5	12486.9	14362.4	14634.9	15273.5	9554.8
47.5°	12952.5	13027.5	13053.5	12909.3	12805.5	13436.9	13595.5	15520.0	15902.0	16924.1	10494.6
50°	13811.7	13831.9	13876.6	13782.9	13679.1	14319.2	14590.2	16735.3	17082.6	18580.5	11421.6
52.5°	14652.1	14724.2	14879.9	14820.8	14779.0	15070.2	15476.7	17830.8	18218.6	19961.5	12347.1
55°	14894.3	14956.4	15494.1	15861.6	16201.8	15995.7	16324.3	18812.5	19232.1	21195.5	13237.9
57.5°	13927.0	14052.5	14983.8	15940.9	17352.2	17434.4	17489.2	19820.2	20196.4	22141.1	14164.9
60°	11482.2	11506.7	13034.7	14676.7	17161.9	18690.0	19190.3	20902.8	21218.5	23022.0	15275.0
62.5°	7303.1	7552.4	9228.9	11547.0	15149.5	18508.4	21247.4	22540.5	22655.8	24078.6	16866.4
65°	3478.5	3640.0	4848.1	7134.4	10973.3	16183.1	22667.3	25502.9	25554.8	26173.2	18992.8
67.5°	1926.0	2003.8	2579.0	3840.4	6415.0	11444.6	22093.6	29011.7	29060.7	28312.5	20858.2
69°	1506.4	1572.7	2025.4	2894.7	4349.2	8225.7	19993.2	30039.5	30185.1	28925.2	20924.4
70°	1278.6	1343.6	1744.3	2444.9	3497.2	6355.9	17796.3	29784.4	29938.6	28867.5	20430.0
72.5°	782.8	820.2	1161.9	1721.2	2344.0	3197.4	10974.7	25188.7	25449.6	26480.3	17558.4
75°	527.6	547.8	726.5	1187.8	1676.5	1646.3	5701.4	17754.5	18319.5	20598.7	12968.4
77.5°	377.6	396.5	487.3	768.3	1174.9	1086.9	2581.9	11033.8	11154.9	12354.3	7072.4
80°	214.8	232.0	344.6	457.0	797.2	725.1	1026.4	5270.4	5331.0	5297.8	2361.3
82.5°	112.4	126.9	188.8	301.3	511.8	474.3	426.7	1764.4	1773.1	1474.7	517.6
85°	21.6	26.0	93.7	206.2	263.8	206.2	174.4	413.7	422.4	373.4	128.3
87.5°	0.0	1.4	37.4	46.1	51.9	53.4	56.3	80.8	86.5	116.7	34.6
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°	3454.0	3454.0	3454.0	3454.0	3454.0	3454.0	3454.0	3454.0	3454.0	3454.0	3454.0
2.5°	3469.8	3417.9	3318.5	3203.2	3113.8	3025.9	2956.6	2884.6	2858.6	2845.7	2844.2
5°	3504.5	3394.9	3184.4	2968.2	2790.9	2623.7	2504.0	2390.2	2336.8	2312.3	2302.2
7.5°	3562.1	3386.3	3047.5	2717.3	2462.2	2253.2	2087.4	1963.4	1901.5	1875.5	1865.4
10°	3629.9	3374.7	2887.5	2452.1	2126.4	1910.0	1745.7	1623.2	1555.5	1526.6	1512.2
12.5°	3709.1	3354.5	2703.0	2184.0	1839.4	1623.2	1424.2	1272.9	1195.1	1161.9	1146.1
15°	3807.2	3334.4	2509.8	1931.8	1587.2	1323.4	1105.7	1003.4	987.4	981.8	983.2
17.5°	3903.7	3302.6	2299.3	1682.3	1322.0	1033.6	922.6	916.8	919.7	919.7	919.7
20°	3990.3	3230.6	2070.1	1469.0	1069.6	872.1	849.1	839.0	831.8	826.0	818.8
22.5°	4058.0	3134.0	1849.5	1257.0	873.6	798.6	762.6	730.9	704.9	687.7	679.0
25°	4104.1	3005.6	1647.7	1053.8	785.7	726.5	661.7	608.3	568.0	543.5	533.4
27.5°	4138.8	2867.3	1467.6	882.3	725.1	643.0	557.9	494.5	452.6	431.0	422.4
30°	4163.3	2710.2	1308.9	775.6	657.4	555.0	464.2	402.2	372.0	360.4	354.6
32.5°	4186.4	2535.8	1159.0	725.1	594.0	474.3	389.2	341.7	322.9	308.5	304.2
35°	4244.0	2374.2	1016.3	671.7	529.0	405.0	334.4	299.9	281.1	272.5	269.6
37.5°	4381.0	2254.6	879.4	617.0	464.2	350.3	292.6	268.1	250.9	242.2	239.3
40°	4601.5	2194.1	764.1	557.9	400.8	308.5	265.2	242.2	223.5	210.4	207.5
42.5°	4925.8	2202.7	683.3	498.8	350.3	275.4	239.3	211.9	191.7	180.2	177.3
45°	5319.4	2266.2	627.1	441.1	308.5	249.4	210.4	181.7	162.9	152.8	149.9
47.5°	5746.2	2368.6	580.9	389.2	275.4	224.9	181.7	151.4	135.5	126.9	125.4
50°	6195.9	2467.9	533.4	338.8	246.5	200.4	152.8	125.4	112.4	105.3	102.4
52.5°	6651.4	2583.3	490.2	292.6	222.0	171.6	126.9	102.4	92.2	86.5	83.7
55°	7141.5	2669.8	448.4	256.6	197.5	145.6	105.3	85.1	76.4	69.2	67.7
57.5°	7718.2	2803.9	405.0	222.0	168.7	121.1	86.5	67.7	60.6	53.4	51.9
60°	8496.6	2961.0	358.9	196.1	138.4	99.5	70.6	54.8	46.1	40.3	38.9
62.5°	9523.0	3135.4	301.3	171.6	112.4	80.8	56.3	43.2	33.2	26.0	26.0
65°	10824.8	3419.4	246.5	144.2	92.2	66.3	43.2	31.7	18.7	11.6	11.6
67.5°	11584.5	3468.4	199.0	118.2	75.0	56.3	36.1	21.6	5.8	1.4	0.0
69°	11340.8	3184.4	168.7	100.9	64.8	53.4	33.2	15.8	2.9	0.0	0.0
70°	10882.4	2912.0	148.5	89.3	59.1	50.5	31.7	11.6	2.9	0.0	0.0
72.5°	8992.5	2073.0	112.4	66.3	43.2	44.7	28.9	7.2	2.9	0.0	0.0
75°	6550.5	1259.9	80.8	46.1	27.4	33.2	20.2	2.9	1.4	0.0	0.0
77.5°	3644.3	594.0	50.5	26.0	17.3	20.2	10.1	0.0	0.0	0.0	0.0
80°	1183.5	161.4	23.1	14.4	10.1	11.6	4.3	0.0	0.0	0.0	0.0
82.5°	219.1	46.1	12.9	7.2	2.9	2.9	0.0	0.0	0.0	0.0	0.0
85°	47.6	18.7	7.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.8	5.8	1.4	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)