

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: P322665

Luminaire Tested: **GAN-SA1A-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2547 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

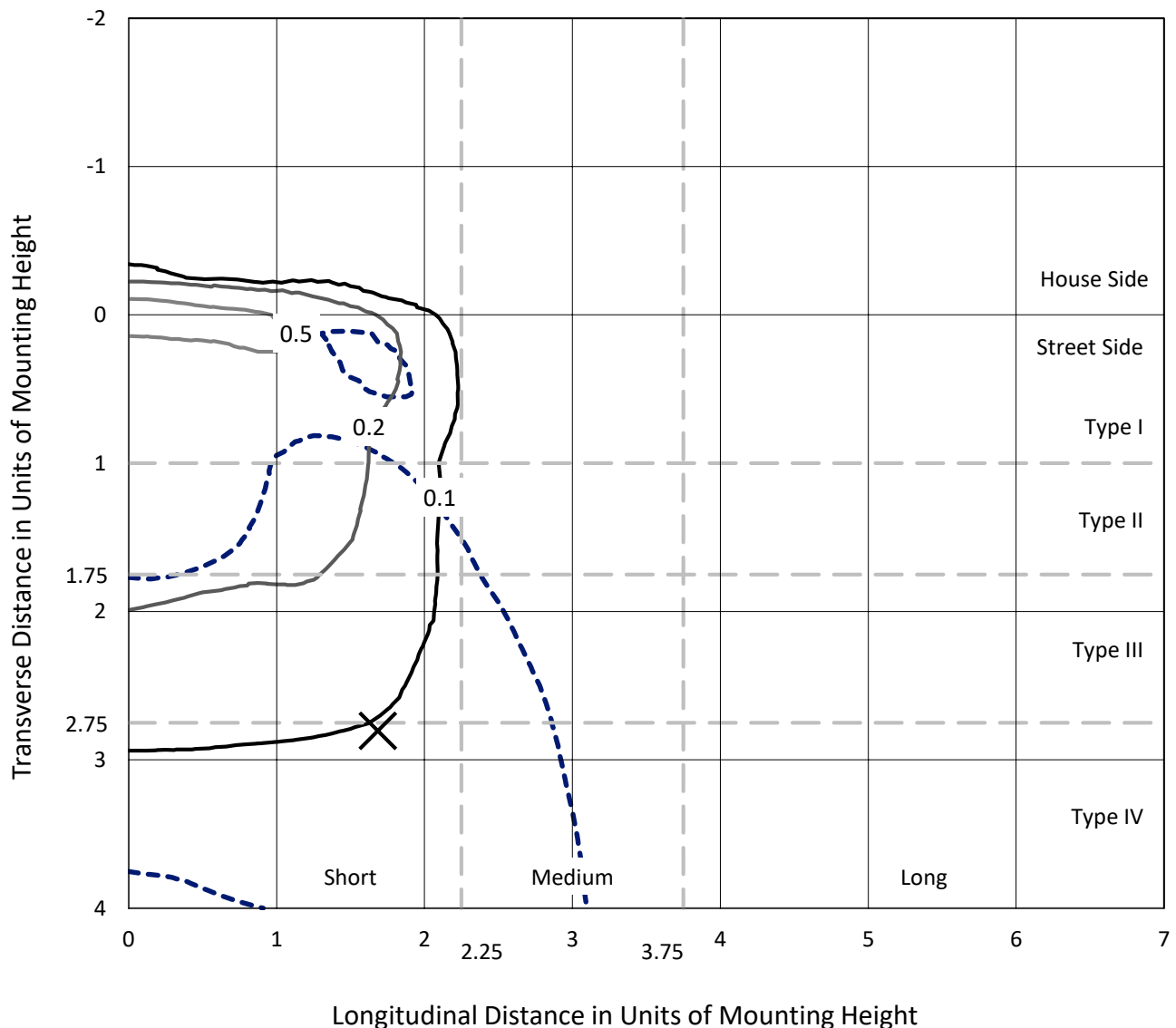
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

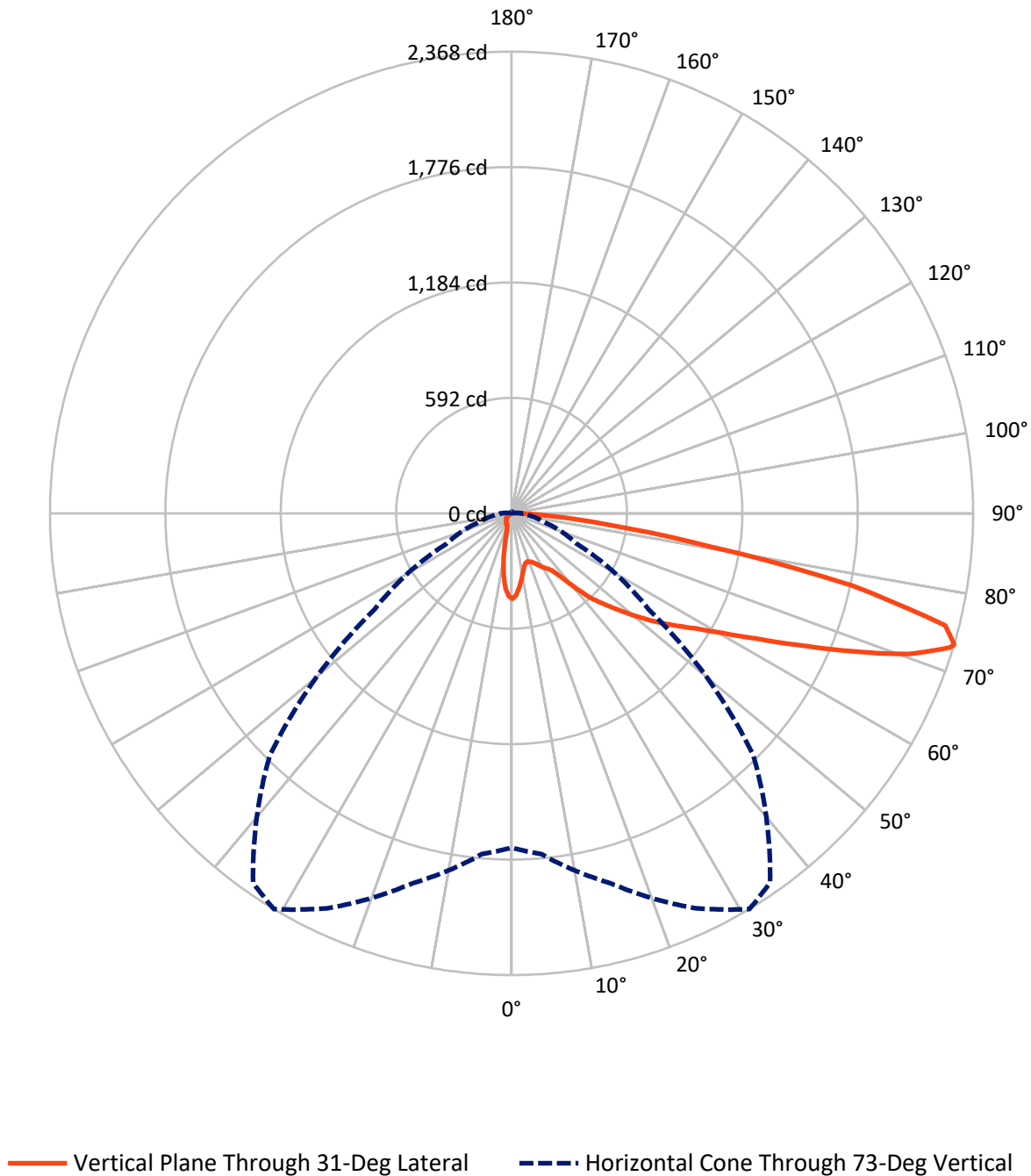
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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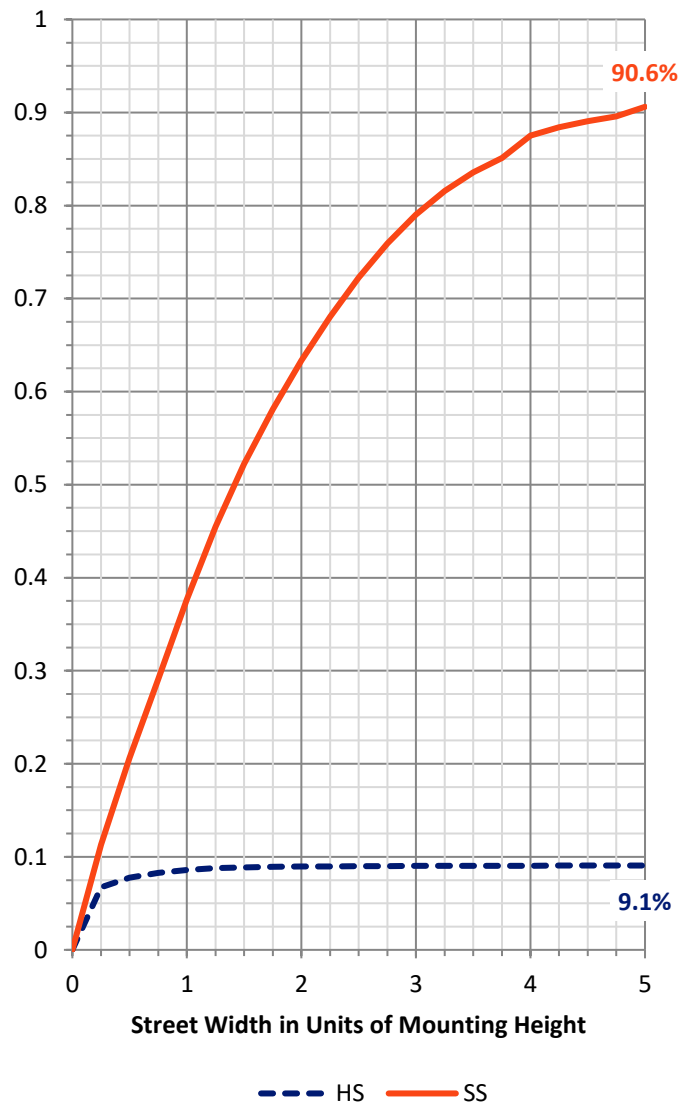
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	232.2	0.0	232.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	2314.8	0.0	2314.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	2547.0	0.0	2547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	1.4
10°-20°	78.9	3.1
20°-30°	118.2	4.6
30°-40°	188.1	7.4
40°-50°	335.8	13.2
50°-60°	521.1	20.5
60°-70°	692.7	27.2
70°-80°	521.1	20.5
80°-90°	54.8	2.1
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°	2547.0	100.0
0°-180°	2547.0	100.0

Coefficient of Utilization



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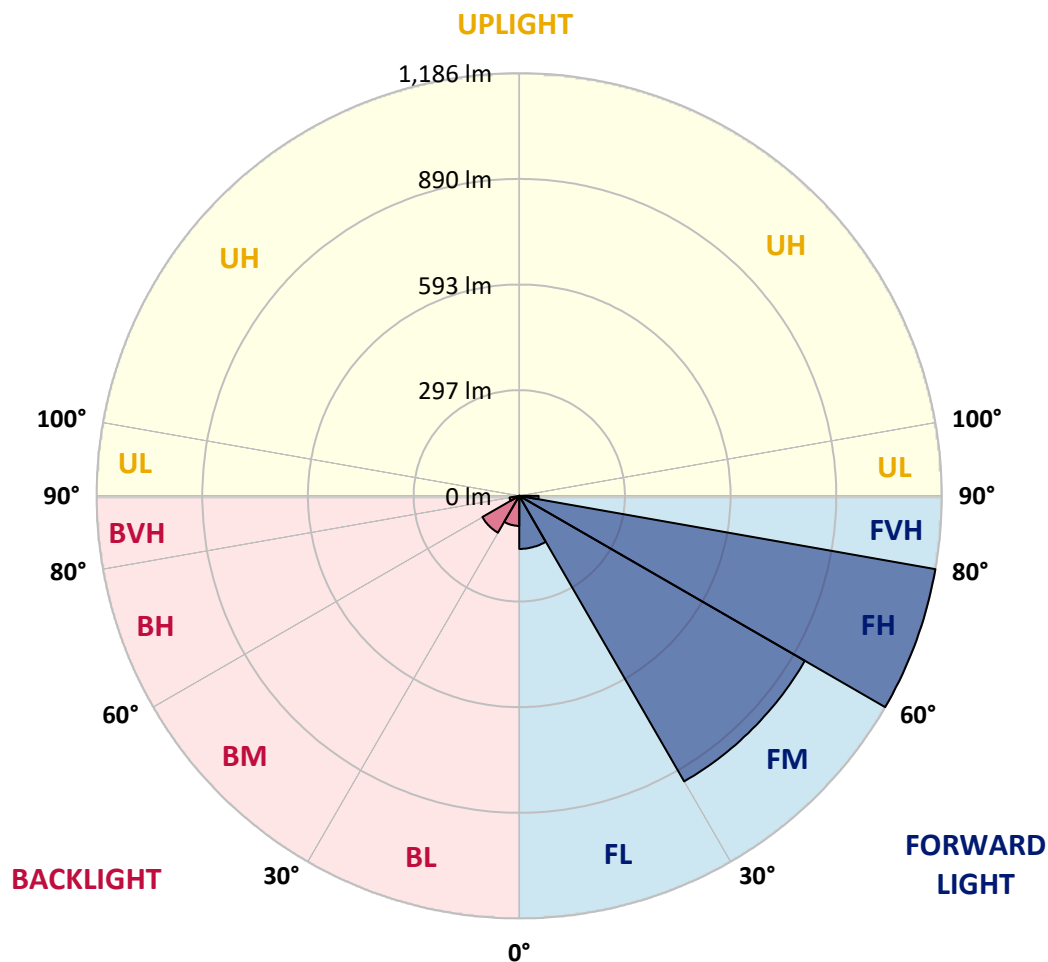
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	149.0	5.9			
FM	(30°-60°)	925.5	36.3			
FH	(60°-80°)	1186.1	46.6			G1/1800
FVH	(80°-90°)	54.3	2.1			G1/100
BL	(0°-30°)	84.4	3.3	B0/110		
BM	(30°-60°)	119.5	4.7	B0/220		
BH	(60°-80°)	27.8	1.1	B0/110		G0/110
BVH	(80°-90°)	0.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	438.2	438.2	438.2	438.2	438.2	438.2	438.2	438.2	438.2	438.2	438.2
2.5°	415.3	417.0	418.9	419.3	422.4	422.5	427.0	430.4	433.7	437.0	438.1
5°	372.7	375.5	378.9	382.3	388.9	391.5	402.4	413.7	424.4	434.6	439.6
7.5°	327.2	330.4	335.1	343.5	350.8	356.0	373.3	393.2	413.2	432.0	442.8
10°	285.7	288.7	293.6	302.5	313.8	320.8	344.1	371.8	401.1	429.6	447.7
12.5°	259.2	260.9	263.6	273.1	283.3	291.1	318.6	352.8	391.1	429.5	455.5
15°	254.4	254.9	252.6	256.9	264.8	272.5	300.2	337.5	383.5	431.5	465.8
17.5°	262.1	261.9	254.4	253.9	260.2	266.5	291.3	326.9	378.1	436.1	479.0
20°	273.8	273.0	260.0	257.6	264.4	270.2	290.6	322.9	376.1	443.8	495.1
22.5°	289.4	287.9	267.6	265.1	272.3	278.4	298.4	326.8	377.9	454.2	513.7
25°	308.7	306.5	280.7	277.9	285.3	291.4	312.2	337.9	383.1	466.8	537.4
27.5°	330.5	327.3	301.6	294.5	302.9	309.2	330.7	354.8	391.4	480.1	566.5
30°	351.1	346.9	323.7	312.0	322.2	329.3	350.6	375.0	404.6	500.7	606.2
32.5°	371.8	367.0	343.4	329.4	338.6	346.4	371.2	402.8	429.4	532.1	659.1
35°	419.4	414.4	385.4	362.3	362.2	366.6	400.0	440.8	462.1	575.8	722.1
37.5°	499.5	496.7	469.0	425.3	413.5	408.7	439.2	486.2	509.3	636.0	793.3
40°	587.3	584.8	553.8	514.1	496.3	484.3	495.5	549.4	575.8	709.5	866.0
42.5°	686.4	674.5	619.2	607.3	591.4	582.3	572.2	627.3	657.6	789.6	938.0
45°	776.4	756.4	684.6	666.7	663.1	665.3	670.9	732.0	749.6	884.7	1009.8
47.5°	829.9	814.2	759.2	742.0	741.0	755.8	798.2	850.3	841.2	967.5	1073.0
50°	880.9	866.7	821.0	825.2	829.8	850.0	942.6	971.9	924.8	1042.7	1130.9
52.5°	922.2	900.5	876.6	900.4	923.0	955.6	1091.7	1081.1	984.1	1102.5	1180.5
55°	946.0	936.1	947.7	971.7	1014.3	1067.1	1232.4	1171.9	1027.5	1157.1	1213.6
57.5°	1033.2	1013.9	1037.0	1057.7	1113.2	1187.1	1352.9	1239.6	1058.8	1190.9	1221.2
60°	1138.8	1123.2	1136.8	1171.2	1246.2	1333.1	1465.6	1294.8	1075.1	1212.6	1201.5
62.5°	1306.8	1286.2	1277.8	1316.3	1415.7	1510.6	1551.1	1333.1	1071.5	1203.0	1133.9
65°	1531.9	1510.6	1472.7	1507.6	1634.1	1701.0	1646.7	1341.2	1046.6	1125.3	963.2
67.5°	1762.5	1747.0	1714.6	1773.4	1887.6	1909.2	1747.8	1321.5	966.3	912.5	680.5
70°	1914.8	1908.2	1929.2	2059.3	2161.2	2154.9	1840.5	1215.7	753.2	561.1	336.6
72.5°	1805.0	1836.6	1992.2	2228.1	2352.5	2301.6	1792.9	933.5	430.5	215.9	97.3
73°	1714.0	1754.5	1963.9	2234.5	2367.6	2311.9	1752.9	856.9	366.9	170.4	73.8
75°	1192.4	1242.1	1625.9	2081.0	2297.0	2202.7	1461.1	524.5	170.0	75.5	29.8
77.5°	578.9	615.7	895.3	1503.6	1786.4	1721.0	909.6	195.4	76.8	47.2	13.7
80°	216.1	240.3	388.6	765.3	1032.4	1059.4	400.1	73.9	51.1	38.0	7.0
82.5°	56.6	63.1	143.3	341.3	529.1	553.8	126.1	37.3	37.4	31.3	4.2
85°	18.1	20.7	44.7	153.2	249.3	218.9	32.9	18.1	27.2	23.3	2.4
87.5°	2.2	2.9	14.2	36.0	55.0	30.5	5.1	5.4	11.6	13.0	1.4
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°	438.2	438.2	438.2	438.2	438.2	438.2	438.2	438.2	438.2	438.2	438.2
2.5°	439.2	438.6	438.7	435.5	433.4	429.1	424.8	422.8	420.6	419.8	420.6
5°	441.5	440.3	437.1	427.1	416.5	402.8	390.0	380.3	368.0	364.7	368.2
7.5°	444.9	442.7	433.2	412.9	389.4	363.2	333.8	312.3	294.8	283.4	287.5
10°	450.1	445.8	426.8	392.2	350.1	303.7	262.0	229.5	206.4	196.9	196.5
12.5°	458.7	450.7	418.8	365.3	302.1	240.3	185.6	150.3	131.6	119.5	119.3
15°	468.1	456.4	408.7	333.0	246.3	172.1	119.5	92.7	80.6	76.8	76.3
17.5°	479.7	463.0	395.6	293.3	187.8	114.0	78.0	70.3	69.8	69.4	69.4
20°	494.3	470.9	378.8	247.8	133.2	76.2	66.3	66.8	67.1	66.6	66.7
22.5°	511.3	478.8	358.7	198.9	90.1	63.7	63.4	64.1	64.3	64.1	64.2
25°	530.9	488.1	334.3	147.7	65.1	60.4	61.1	61.9	62.6	62.6	62.6
27.5°	555.4	499.3	304.9	103.1	56.2	57.1	58.8	60.4	61.3	61.6	61.6
30°	587.2	513.2	269.6	70.7	51.1	52.6	55.8	59.0	60.6	60.8	60.9
32.5°	627.3	529.0	228.7	52.2	46.7	47.9	51.3	56.6	59.7	60.2	60.2
35°	673.3	547.1	184.7	45.5	43.6	44.0	46.7	52.7	58.2	59.6	59.7
37.5°	723.6	565.1	140.5	42.5	41.0	41.0	43.0	48.1	54.6	58.8	59.3
40°	770.6	575.9	98.5	40.1	38.6	38.6	40.4	44.1	50.2	56.6	58.0
42.5°	814.0	579.7	68.5	37.9	36.4	36.8	38.3	41.3	45.9	52.2	53.5
45°	858.6	579.1	50.0	35.3	34.1	35.3	36.4	38.6	42.0	45.6	45.9
47.5°	892.3	573.8	39.6	32.8	32.0	33.5	34.5	36.0	37.9	37.6	37.6
50°	923.8	561.1	31.9	29.4	29.9	31.7	32.2	32.7	32.8	30.4	30.2
52.5°	947.7	541.3	25.6	25.8	27.8	29.5	29.0	28.3	27.0	24.2	23.7
55°	955.7	503.2	20.1	21.3	24.7	26.9	25.1	23.4	21.1	18.7	18.2
57.5°	941.2	453.9	16.3	16.6	20.8	22.7	20.6	18.7	16.1	14.1	13.7
60°	910.6	399.2	13.5	12.5	16.1	17.7	16.3	14.5	12.1	10.6	10.5
62.5°	849.8	340.9	11.1	9.7	12.2	13.6	12.7	11.3	9.3	8.4	8.2
65°	721.9	272.7	9.0	7.9	9.5	10.6	9.8	8.8	7.4	6.6	6.5
67.5°	503.9	184.3	7.4	6.5	7.5	8.4	7.7	7.2	5.9	5.7	5.9
70°	243.0	88.9	6.1	5.2	5.9	6.5	6.2	5.9	5.6	6.5	7.5
72.5°	69.7	29.8	4.9	4.4	4.7	5.1	5.4	5.2	6.1	7.9	9.1
73°	53.6	24.1	4.6	4.1	4.5	5.0	5.2	5.1	6.2	8.0	9.1
75°	22.9	11.6	3.5	3.4	3.7	4.4	4.6	4.6	6.2	8.1	8.7
77.5°	10.3	6.2	2.2	2.6	3.2	3.5	3.9	3.9	5.0	6.2	6.2
80°	5.9	3.4	1.7	2.0	2.4	2.4	2.4	2.1	2.2	2.5	2.7
82.5°	3.7	2.2	1.4	1.6	1.5	1.2	1.0	1.0	0.9	1.0	1.2
85°	2.1	1.2	1.2	1.0	0.6	0.5	0.6	0.5	0.1	0.0	0.1
87.5°	1.2	0.7	0.4	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)