

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: P319265

Luminaire Tested: **GAN-SA1A-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3996 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

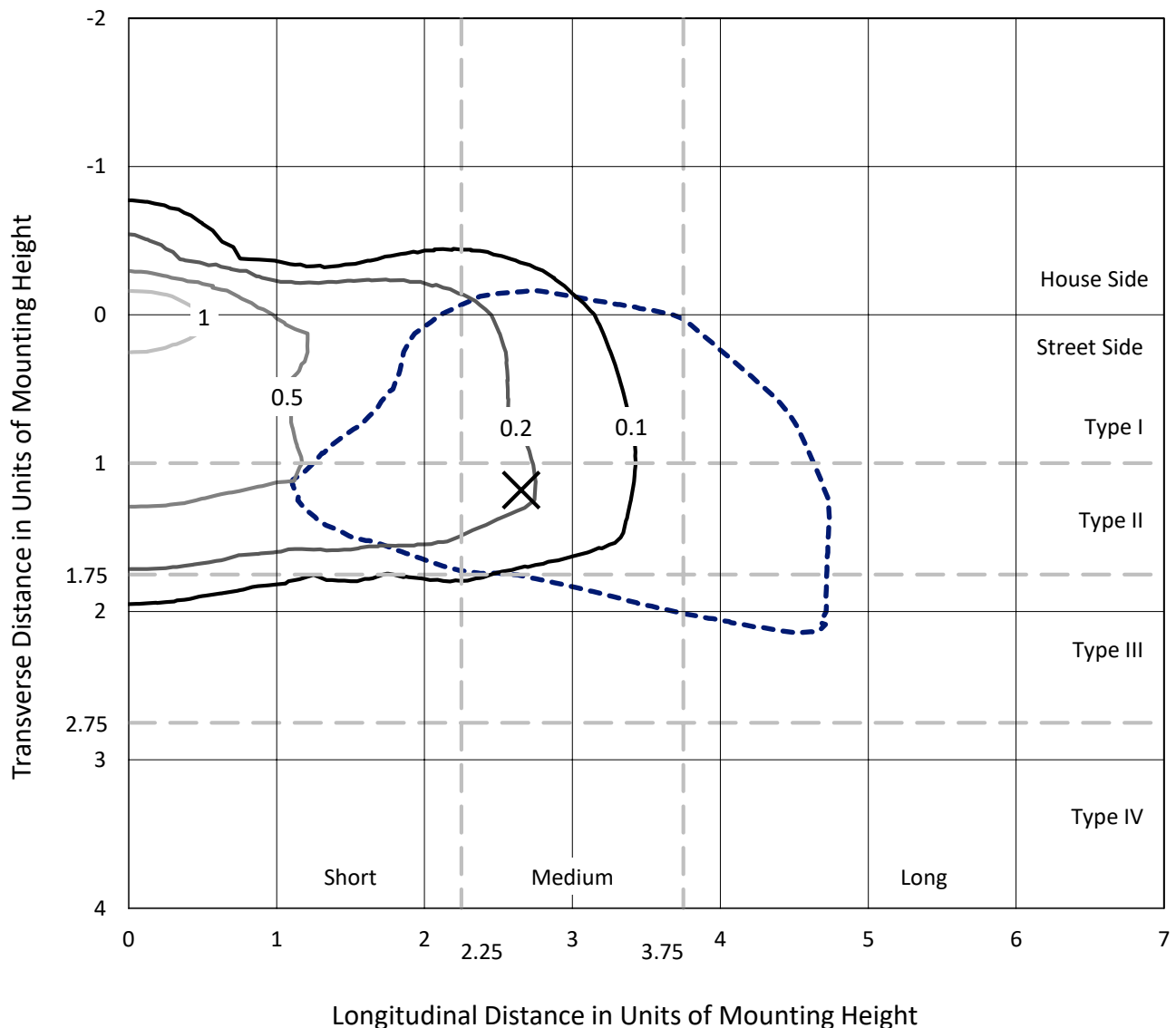
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

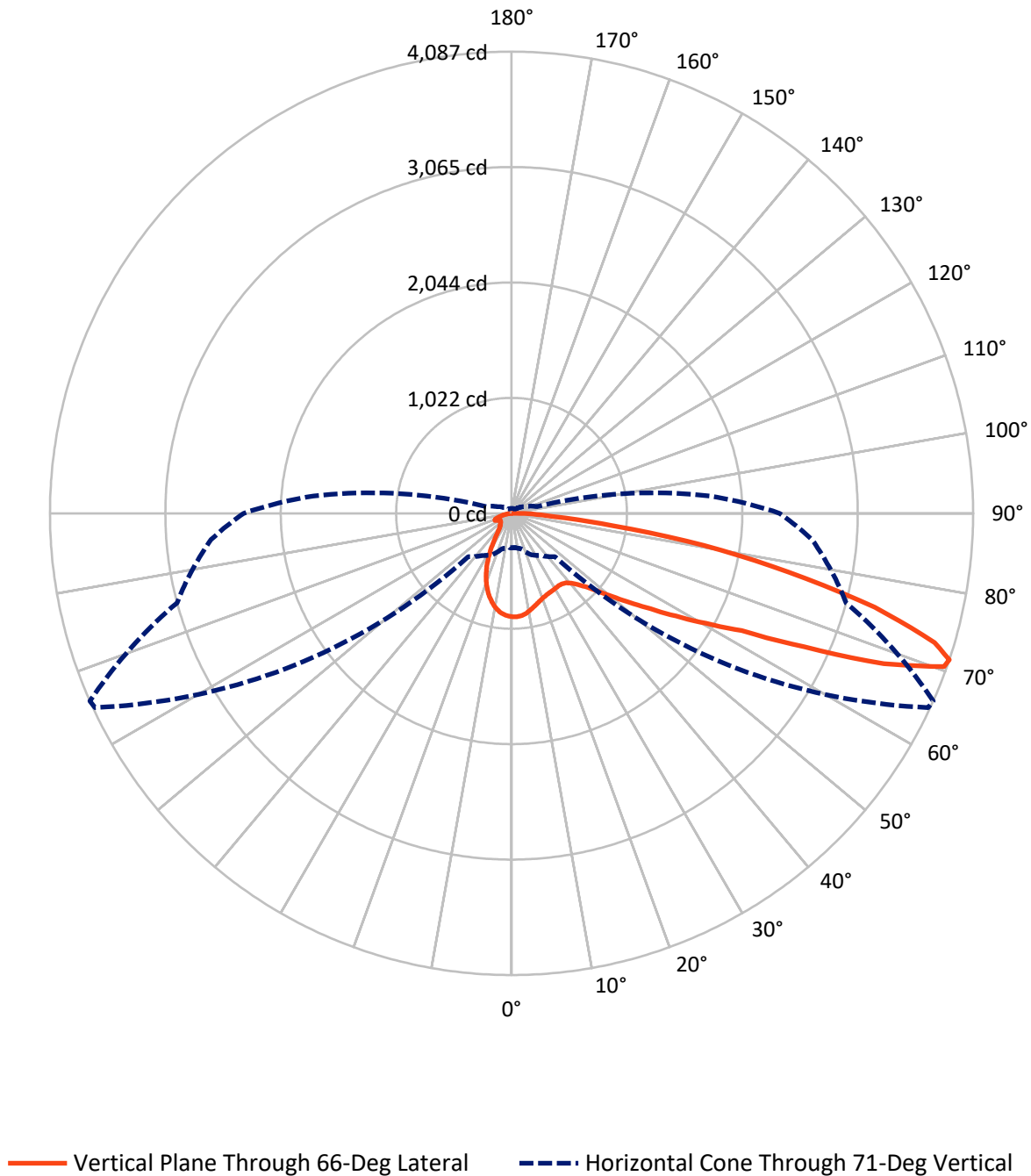
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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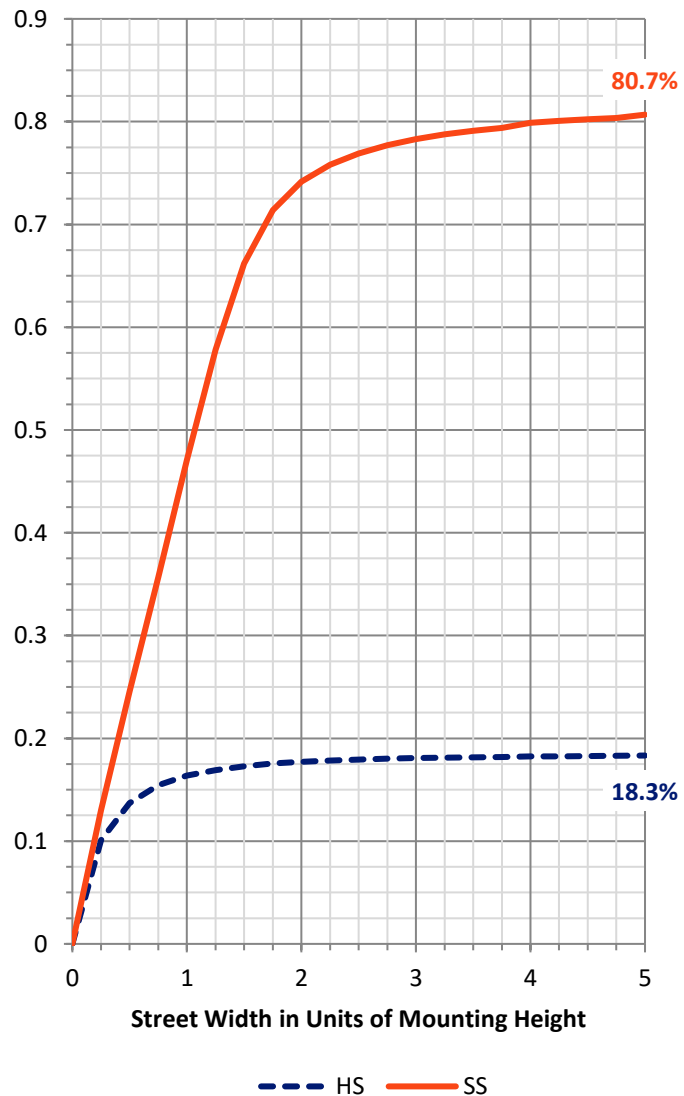
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	740.6	0.0	740.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	3255.4	0.0	3255.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	3996.0	0.0	3996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	2.0
10°-20°	193.3	4.8
20°-30°	259.6	6.5
30°-40°	341.5	8.5
40°-50°	496.8	12.4
50°-60°	776.0	19.4
60°-70°	972.1	24.3
70°-80°	741.5	18.6
80°-90°	134.7	3.4
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°	3996.0	100.0
0°-180°	3996.0	100.0

Coefficient of Utilization



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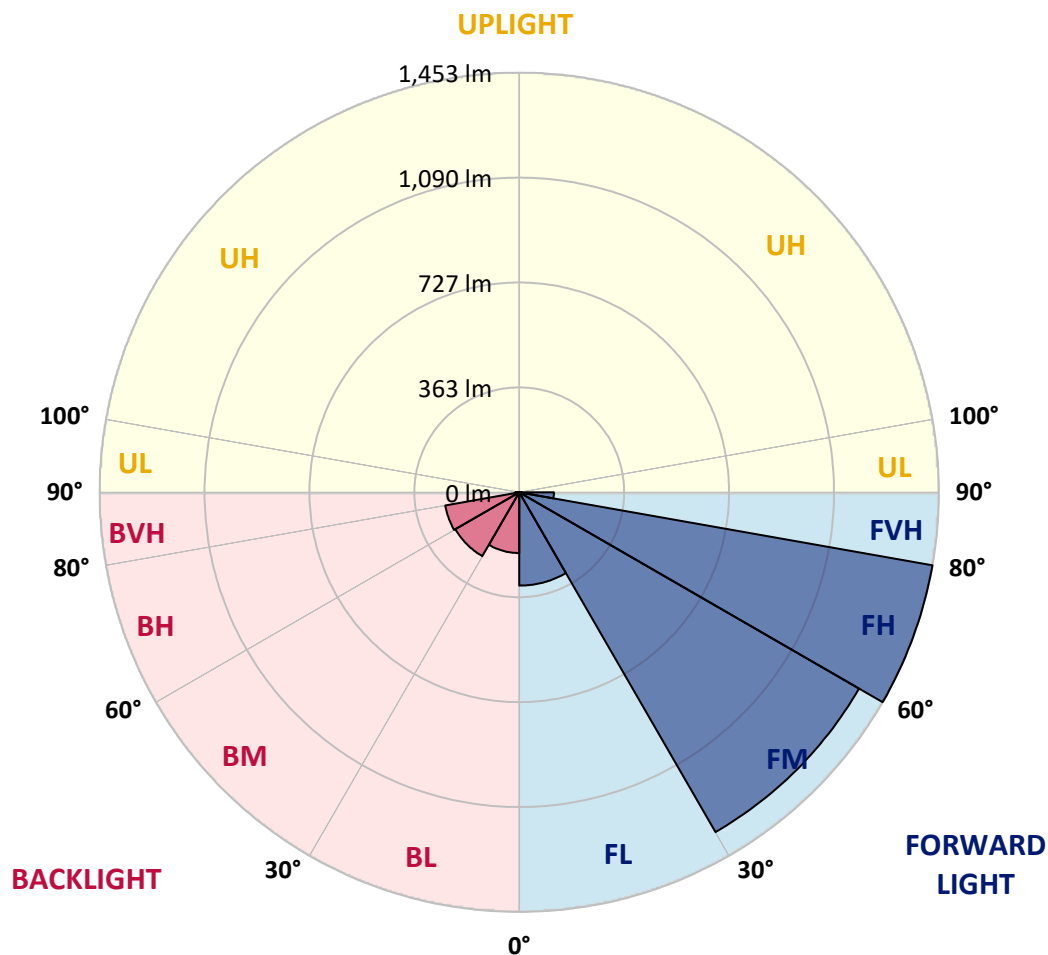
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	323.1	8.1			
FM	(30°-60°)	1358.8	34.0			
FH	(60°-80°)	1453.4	36.4			G1/1800
FVH	(80°-90°)	120.1	3.0			G2/225
BL	(0°-30°)	210.3	5.3	B1/500		
BM	(30°-60°)	255.5	6.4	B1/1000		
BH	(60°-80°)	260.2	6.5	B1/500		G1/500
BVH	(80°-90°)	14.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	915.4	915.4	915.4	915.4	915.4	915.4	915.4	915.4	915.4	915.4	915.4
2.5°	898.4	897.1	901.2	905.5	907.1	909.9	914.0	916.4	916.2	916.6	915.3
5°	838.8	837.0	845.3	852.1	865.0	879.7	897.5	910.2	910.4	917.6	919.5
7.5°	782.4	781.2	790.7	801.6	816.6	839.0	867.8	895.1	896.8	916.2	923.0
10°	737.2	736.9	746.1	758.0	775.5	800.5	833.6	873.6	876.1	909.6	923.5
12.5°	701.8	702.4	710.4	723.9	742.4	768.5	804.3	849.5	853.5	899.1	920.4
15°	675.8	678.0	684.5	698.1	716.3	742.8	779.6	827.1	833.2	887.4	918.6
17.5°	660.9	663.3	667.9	679.2	696.3	721.8	756.7	808.8	814.3	878.4	918.7
20°	656.4	658.5	661.1	668.0	682.5	705.7	738.7	792.2	798.1	871.3	920.1
22.5°	665.1	666.7	666.9	666.4	675.2	694.1	725.6	780.1	786.4	866.6	921.1
25°	683.8	685.8	684.3	679.2	676.3	687.9	718.8	772.1	778.4	863.1	919.1
27.5°	711.8	712.0	710.8	704.2	690.5	688.6	716.7	767.4	773.4	859.1	915.1
30°	749.8	751.6	749.4	740.5	718.1	699.6	719.2	762.8	768.3	854.0	908.6
32.5°	794.4	798.8	798.7	789.3	757.3	724.3	729.4	760.1	764.3	848.6	900.8
35°	840.6	846.7	858.0	854.0	814.4	763.4	749.0	764.5	767.4	847.9	895.3
37.5°	888.6	894.7	918.0	928.8	882.4	819.2	779.9	780.1	781.4	856.4	894.8
40°	938.9	945.3	980.4	1008.4	970.6	890.0	829.7	812.6	811.1	877.1	903.0
42.5°	1009.2	1015.0	1057.1	1092.8	1068.4	980.7	898.6	862.8	859.7	917.6	929.1
45°	1098.2	1103.2	1147.9	1186.1	1173.5	1084.1	985.1	932.0	931.4	985.2	981.9
47.5°	1204.0	1207.9	1248.0	1285.0	1289.6	1203.2	1093.8	1038.6	1029.6	1077.9	1063.7
50°	1314.3	1318.5	1345.9	1385.6	1419.4	1362.6	1233.7	1169.3	1157.3	1200.3	1179.6
52.5°	1387.3	1392.9	1416.6	1467.0	1565.4	1537.2	1399.1	1327.6	1309.4	1348.6	1332.8
55°	1354.7	1367.4	1403.7	1484.4	1682.1	1804.0	1603.2	1512.4	1491.8	1524.4	1515.0
57.5°	1206.7	1224.0	1273.6	1398.2	1698.5	2039.1	1911.7	1730.0	1715.5	1706.1	1710.4
60°	936.1	952.8	1014.2	1176.6	1584.1	2210.8	2375.9	1998.2	1977.2	1888.5	1892.3
62.5°	662.5	654.1	696.2	815.0	1287.2	2230.9	2904.2	2356.9	2287.9	2081.1	2064.1
65°	505.2	503.3	522.2	560.0	779.6	1989.9	3218.9	2959.8	2852.0	2307.6	2267.6
67.5°	415.1	411.7	430.3	485.4	502.1	1283.8	3225.8	3659.3	3553.5	2589.6	2503.0
70°	341.3	337.5	354.8	425.9	464.0	651.1	2714.9	4068.9	4063.2	2946.7	2680.7
71°	306.0	303.2	324.1	403.0	455.8	542.6	2344.0	4070.0	4087.0	3067.5	2670.2
72.5°	249.2	250.1	272.2	358.7	449.8	479.2	1722.8	3880.3	3916.2	3182.7	2574.9
75°	165.6	166.4	195.4	275.9	436.1	468.8	946.9	3256.0	3322.0	3113.8	2349.6
77.5°	111.2	110.9	130.7	189.3	380.0	468.8	555.2	2435.2	2507.7	2477.6	1811.4
80°	76.6	76.0	90.0	130.7	287.7	474.5	429.2	1706.6	1728.6	1338.0	736.2
82.5°	46.9	47.3	58.8	92.3	195.8	427.0	405.2	930.6	906.7	375.3	183.9
85°	26.9	26.8	37.5	62.5	125.7	360.4	395.1	400.5	367.4	113.0	66.5
87.5°	9.7	10.3	20.1	34.6	72.0	251.0	335.3	208.3	187.8	51.0	30.1
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°	915.4	915.4	915.4	915.4	915.4	915.4	915.4	915.4	915.4	915.4	915.4
2.5°	914.3	915.1	914.2	908.6	904.0	896.4	892.1	886.2	884.4	883.5	885.7
5°	917.8	918.0	909.9	895.4	879.1	859.9	846.1	829.2	821.2	817.7	819.9
7.5°	920.9	919.7	901.9	874.2	844.1	810.7	781.0	753.8	738.0	731.5	732.0
10°	921.3	916.1	887.5	844.6	798.0	749.0	703.5	661.5	635.1	617.8	623.1
12.5°	917.1	908.2	866.4	806.4	741.7	674.9	613.4	550.5	512.7	495.2	495.7
15°	913.8	897.7	840.5	761.4	674.5	586.1	502.1	428.1	387.8	369.9	361.5
17.5°	911.0	886.4	810.4	710.8	595.2	483.0	382.0	316.1	294.0	288.8	286.6
20°	907.1	874.4	776.9	652.2	504.8	367.7	279.0	246.4	246.5	252.6	253.4
22.5°	901.7	860.8	741.2	586.4	407.8	267.8	218.7	209.3	218.8	230.4	232.5
25°	893.7	844.6	701.4	513.6	311.0	205.8	186.8	186.4	198.0	210.1	211.9
27.5°	882.4	823.5	657.3	435.6	229.2	174.9	167.4	170.3	178.8	187.6	188.3
30°	867.3	799.0	608.6	353.2	179.6	155.8	154.9	157.6	162.8	169.0	169.6
32.5°	850.6	774.0	556.6	273.4	153.8	145.4	146.2	147.5	150.0	152.5	153.0
35°	835.4	748.5	503.3	207.8	141.6	138.7	138.1	137.8	138.1	137.3	137.4
37.5°	825.6	727.4	447.8	165.4	134.5	132.7	131.1	129.0	126.7	125.3	125.5
40°	822.0	711.6	391.7	142.9	128.7	127.5	124.3	119.9	117.1	116.3	116.3
42.5°	831.7	703.5	337.5	131.6	123.9	121.8	116.6	111.5	109.4	109.3	109.1
45°	861.2	706.8	285.9	125.4	119.5	115.5	108.6	104.3	102.9	103.2	103.1
47.5°	914.2	727.6	241.7	121.3	115.1	109.8	102.1	98.6	97.0	97.0	97.1
50°	1004.3	776.3	206.5	117.8	111.3	104.6	97.4	93.1	90.9	90.8	90.8
52.5°	1135.5	863.5	184.6	114.9	107.2	99.9	92.7	87.3	84.7	84.2	83.9
55°	1299.9	988.5	178.5	113.0	101.7	94.8	87.1	81.7	78.8	77.5	77.4
57.5°	1483.8	1140.6	190.5	110.6	96.0	88.7	80.8	75.7	72.7	71.2	71.1
60°	1669.9	1306.5	239.5	107.3	91.3	82.1	74.5	69.8	66.8	65.1	64.8
62.5°	1856.3	1481.5	339.5	107.1	88.0	75.7	68.0	64.0	61.1	59.3	58.9
65°	2066.6	1673.0	453.2	114.4	86.9	69.9	61.4	58.2	55.7	54.1	53.9
67.5°	2308.0	1889.2	442.3	129.4	90.6	64.7	55.2	52.7	50.9	49.5	49.4
70°	2421.3	1855.4	275.0	140.0	95.9	59.6	49.3	47.5	46.1	45.1	44.7
71°	2373.8	1761.7	230.5	138.8	95.3	57.4	46.9	45.5	44.1	43.3	42.9
72.5°	2244.4	1606.6	192.3	129.1	89.1	53.4	43.9	42.5	41.3	40.3	40.0
75°	2014.0	1434.8	154.0	103.2	71.1	45.1	38.5	37.0	36.0	35.5	34.9
77.5°	1480.5	1024.0	119.1	81.5	52.3	36.8	32.8	31.7	30.8	29.9	29.5
80°	567.2	396.7	80.2	60.8	38.4	29.1	26.5	25.9	25.0	24.4	24.4
82.5°	152.7	118.5	42.8	36.8	25.7	21.2	20.3	20.0	19.2	18.1	18.2
85°	61.8	52.3	24.0	20.3	15.7	12.6	13.7	13.8	12.8	11.5	11.6
87.5°	27.2	22.2	13.4	9.0	6.9	4.8	6.2	6.2	5.7	4.7	4.3
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)