

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: P318625

Luminaire Tested: **GAN-SA1A-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4106 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

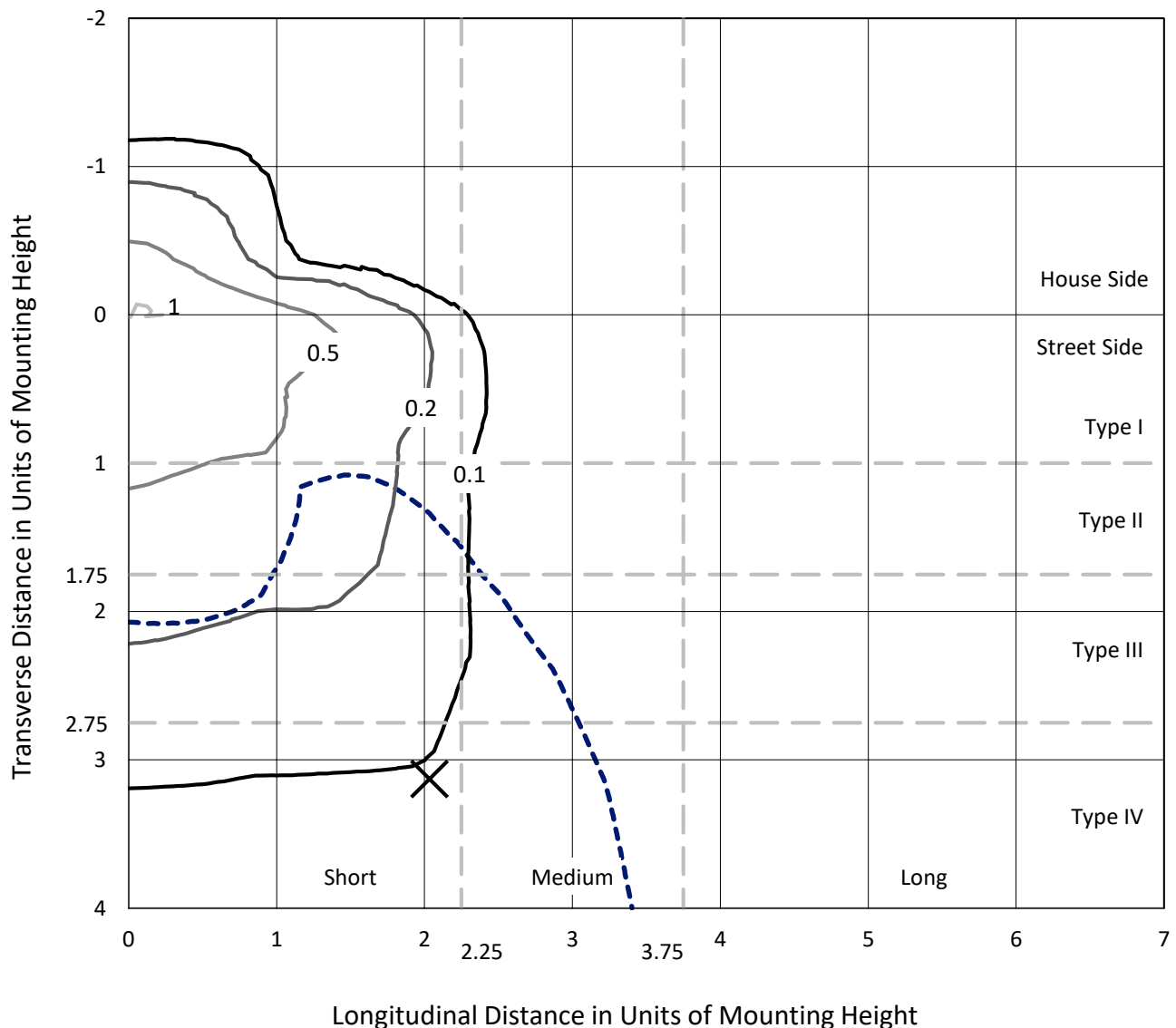
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

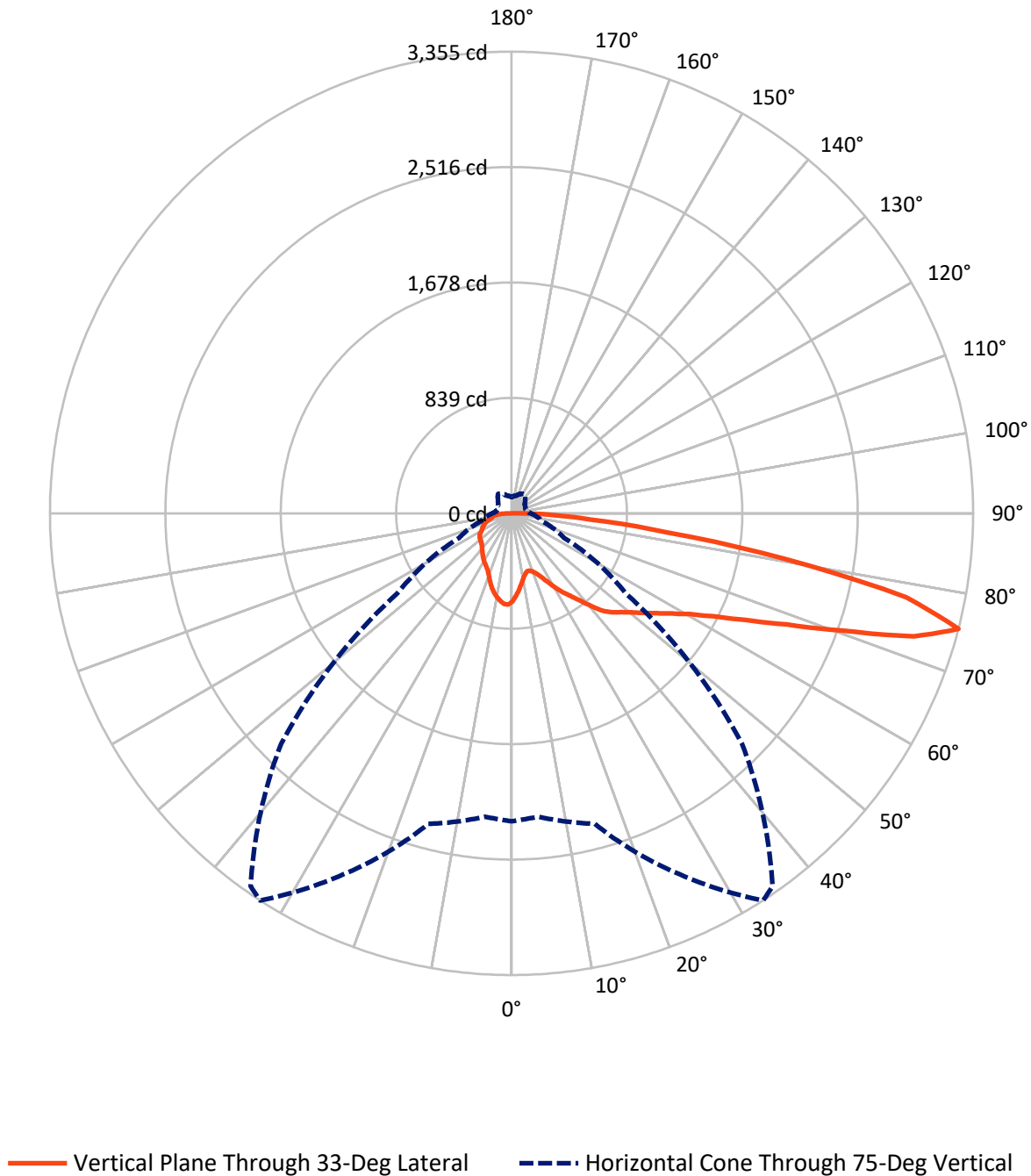
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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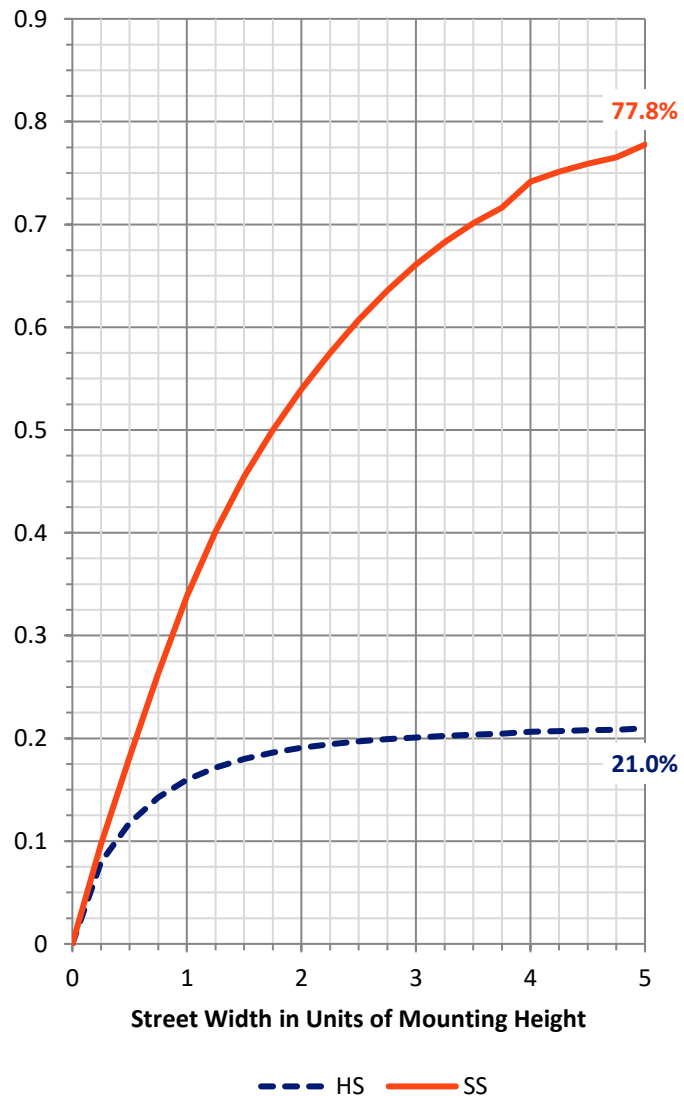
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	881.7	0.0	881.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	3224.3	0.0	3224.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	4106.0	0.0	4106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	1.4
10°-20°	157.2	3.8
20°-30°	256.7	6.3
30°-40°	382.3	9.3
40°-50°	548.4	13.4
50°-60°	752.8	18.3
60°-70°	942.5	23.0
70°-80°	852.6	20.8
80°-90°	155.3	3.8
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°	4106.0	100.0
0°-180°	4106.0	100.0

Coefficient of Utilization



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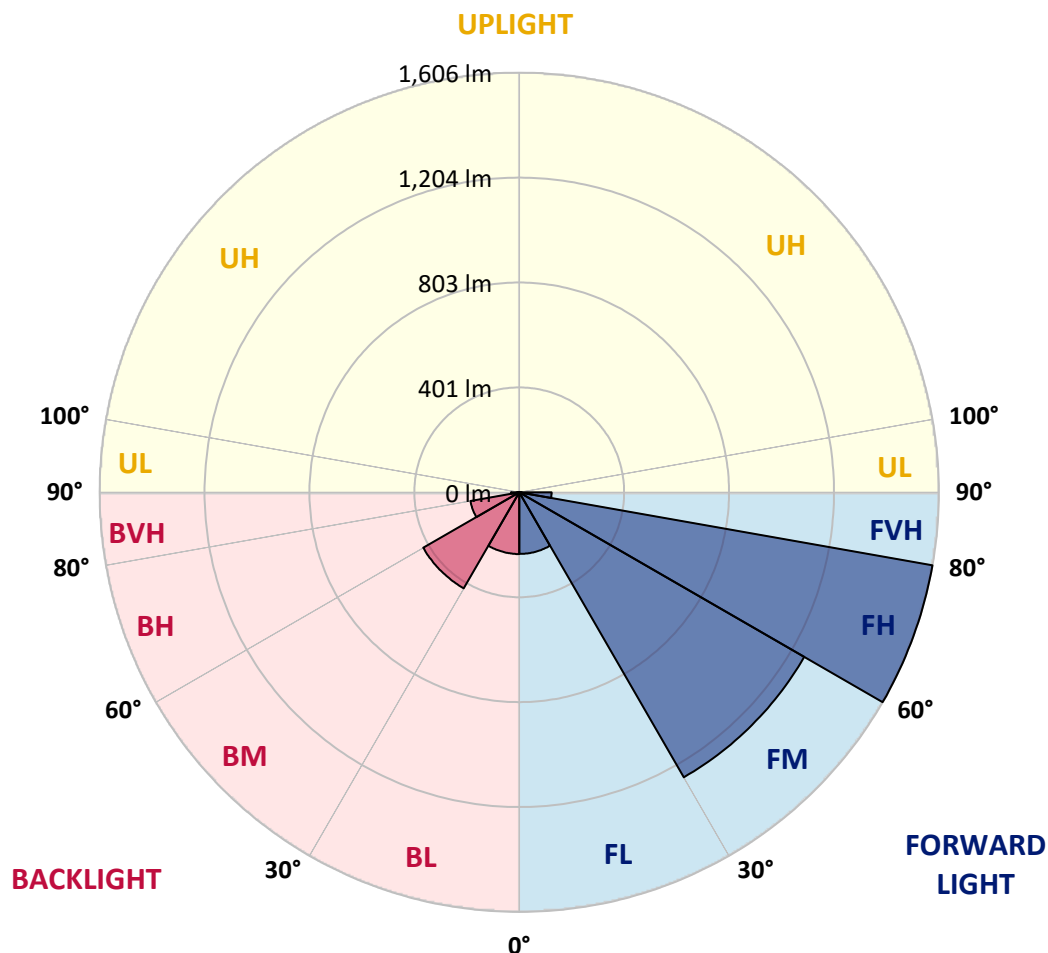
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	235.8	5.7			
FM	(30°-60°)	1259.2	30.7			
FH	(60°-80°)	1605.6	39.1			G1/1800
FVH	(80°-90°)	123.7	3.0			G2/225
BL	(0°-30°)	236.1	5.8	B1/500		
BM	(30°-60°)	424.3	10.3	B1/1000		
BH	(60°-80°)	189.6	4.6	B1/500		G1/500
BVH	(80°-90°)	31.6	0.8			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8
2.5°	596.0	593.7	598.0	598.5	602.2	603.6	608.7	616.7	623.2	630.7	637.5
5°	541.9	540.4	546.3	550.6	558.7	562.1	574.1	591.0	606.0	623.1	638.5
7.5°	490.6	489.7	496.4	506.1	515.4	520.1	540.9	565.5	590.6	618.1	641.8
10°	447.3	447.1	453.4	462.9	476.7	481.9	508.9	541.2	576.4	614.3	647.3
12.5°	423.1	424.1	427.1	435.0	447.8	453.0	482.9	520.9	564.5	613.0	655.4
15°	429.0	430.6	425.5	425.2	434.3	438.4	466.5	506.5	556.0	615.1	667.2
17.5°	454.4	454.7	441.2	432.7	438.3	440.4	461.4	498.3	551.0	619.9	681.9
20°	490.2	489.5	465.6	451.5	454.4	455.0	468.6	498.4	550.6	628.3	701.1
22.5°	537.5	532.3	500.2	481.0	480.2	479.4	487.2	508.9	556.8	641.9	723.9
25°	599.4	594.4	550.3	523.9	518.3	516.1	517.3	531.3	569.2	656.5	749.4
27.5°	668.2	659.5	617.0	579.7	567.9	564.9	558.1	562.9	582.6	670.6	779.8
30°	725.8	721.1	683.9	639.7	625.8	621.5	603.6	598.4	602.1	689.7	818.1
32.5°	758.0	754.8	732.3	696.5	683.6	677.7	652.4	641.9	633.3	719.9	870.0
35°	797.0	795.0	781.4	755.4	736.3	730.0	710.4	699.5	677.2	761.5	937.1
37.5°	846.6	844.5	844.8	823.8	800.9	795.1	782.2	770.7	734.3	816.1	1010.0
40°	902.8	898.6	897.1	896.1	881.6	878.4	871.6	856.0	805.7	881.3	1081.9
42.5°	987.3	972.7	941.5	953.3	967.6	965.9	971.4	949.0	885.2	958.5	1152.1
45°	1068.8	1044.9	991.0	993.5	1024.9	1034.4	1075.8	1059.9	971.3	1043.0	1224.7
47.5°	1106.0	1087.9	1042.0	1042.2	1073.2	1093.0	1183.7	1172.4	1061.8	1139.1	1313.4
50°	1147.6	1129.4	1088.3	1103.7	1130.8	1151.8	1288.0	1282.2	1147.8	1244.2	1419.6
52.5°	1193.0	1162.2	1136.1	1163.7	1201.7	1226.1	1392.4	1376.5	1226.8	1350.0	1541.7
55°	1193.5	1185.2	1205.0	1225.3	1282.2	1312.1	1501.7	1459.7	1291.2	1453.9	1641.1
57.5°	1261.5	1247.8	1290.0	1299.3	1373.6	1407.4	1610.5	1532.2	1356.8	1533.6	1694.8
60°	1351.4	1339.7	1374.2	1398.9	1486.8	1531.9	1726.7	1606.7	1408.3	1593.8	1692.2
62.5°	1506.7	1493.5	1493.1	1527.7	1646.1	1698.6	1857.0	1679.7	1428.7	1605.7	1620.0
65°	1734.0	1713.0	1673.5	1689.9	1866.1	1918.4	2002.7	1732.6	1401.7	1541.9	1434.1
67.5°	1955.3	1954.6	1905.9	1939.7	2156.6	2198.5	2168.6	1737.9	1317.6	1319.6	1104.2
70°	2175.8	2178.7	2170.5	2287.9	2549.0	2592.7	2345.3	1667.4	1128.6	953.0	661.5
72.5°	2350.6	2349.9	2391.3	2694.1	3058.3	3048.5	2494.3	1453.8	810.3	514.4	316.1
75°	2237.4	2212.7	2336.1	2895.2	3355.2	3307.4	2367.6	1014.1	420.5	234.2	170.2
77.5°	1459.3	1482.7	1663.8	2391.7	2934.8	2876.6	1737.0	473.2	198.1	153.6	123.4
80°	528.5	553.1	779.1	1354.8	2022.0	2012.5	855.4	194.5	134.0	116.0	89.9
82.5°	181.8	190.9	307.4	601.7	1141.6	1184.2	321.8	110.5	97.4	82.3	61.6
85°	71.3	81.7	140.6	289.5	575.8	580.1	130.3	66.1	67.8	53.9	33.8
87.5°	27.1	32.9	67.2	134.5	263.0	241.5	46.7	31.5	38.6	32.1	16.0
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°	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8	641.8
2.5°	642.8	645.8	652.0	656.3	660.8	662.1	662.6	663.8	664.9	664.5	664.6
5°	646.8	652.6	662.6	666.9	668.9	666.6	662.2	658.7	656.1	654.7	654.3
7.5°	653.3	661.5	672.3	671.6	667.0	657.0	645.6	637.1	630.0	627.5	626.0
10°	661.9	671.6	679.1	671.0	657.8	640.4	623.4	610.2	599.5	595.4	594.7
12.5°	673.0	682.8	684.2	667.0	645.2	621.4	598.2	580.8	564.9	559.8	558.7
15°	687.3	696.5	687.7	660.1	629.6	597.5	567.6	543.9	527.2	520.9	518.7
17.5°	702.4	711.1	688.5	648.6	609.2	569.3	531.7	507.5	488.3	481.1	480.2
20°	720.4	724.3	685.5	632.1	581.1	532.7	493.2	470.3	460.1	455.0	454.4
22.5°	742.6	738.4	678.7	609.9	545.5	490.5	458.3	447.6	445.1	443.9	444.4
25°	766.2	753.1	668.6	580.8	500.5	448.2	432.7	435.7	439.1	438.7	438.7
27.5°	792.1	768.2	653.1	542.2	450.7	413.6	415.4	426.3	431.5	431.3	431.2
30°	825.5	785.2	633.4	495.8	404.2	389.2	400.4	413.7	420.7	420.4	420.5
32.5°	866.5	803.9	606.6	444.1	370.6	371.2	384.1	397.3	405.4	404.6	404.8
35°	914.4	824.9	570.3	393.0	348.3	356.8	367.1	376.3	383.9	382.9	382.0
37.5°	966.6	845.5	522.1	347.3	330.2	343.5	352.0	353.6	357.1	354.6	352.7
40°	1016.2	861.2	460.0	309.9	311.9	332.2	337.7	331.5	325.1	324.2	321.7
42.5°	1059.5	866.5	397.1	280.0	292.6	320.3	323.7	310.6	299.1	293.7	291.5
45°	1105.2	868.3	338.6	254.9	274.0	309.6	313.3	295.9	279.7	268.1	264.2
47.5°	1164.9	881.6	293.0	236.3	259.8	302.5	307.8	284.1	263.1	246.5	243.0
50°	1243.0	908.0	256.0	222.1	250.6	297.8	303.8	272.6	249.5	229.5	225.9
52.5°	1329.8	932.3	226.1	210.6	241.7	289.6	298.7	264.4	236.7	213.7	209.9
55°	1390.5	913.7	202.0	198.7	230.1	277.8	291.6	257.4	218.4	198.4	195.0
57.5°	1402.2	850.1	183.7	186.4	216.0	263.1	280.7	242.0	208.5	191.8	188.2
60°	1370.4	761.6	170.1	175.0	201.0	244.5	260.3	231.0	199.0	184.7	181.7
62.5°	1290.5	671.0	160.0	164.8	186.9	225.7	247.5	219.6	189.3	176.6	173.6
65°	1129.3	563.4	150.3	155.7	173.9	209.3	236.0	208.9	179.8	170.1	167.2
67.5°	852.4	422.0	141.3	146.1	162.3	195.2	223.5	198.4	170.6	164.4	161.0
70°	501.9	264.2	130.9	136.0	150.1	180.4	210.2	186.9	159.1	156.3	151.9
72.5°	233.6	159.0	119.1	124.1	134.7	160.7	193.0	171.9	145.5	139.3	133.3
75°	139.4	116.3	105.2	109.6	117.2	139.7	171.5	156.6	132.6	124.4	118.1
77.5°	104.2	88.9	89.9	94.6	100.7	122.3	151.9	144.5	122.7	116.3	112.0
80°	75.0	67.5	73.3	78.4	84.8	111.2	145.5	133.6	110.9	102.4	98.4
82.5°	50.1	48.5	55.2	60.4	66.7	97.3	136.7	117.0	94.7	84.0	75.2
85°	27.7	29.2	37.2	39.4	44.8	68.5	112.0	94.0	71.3	57.4	54.9
87.5°	11.5	13.5	20.0	19.3	23.8	40.8	73.8	56.7	45.4	33.9	26.4
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)