

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P385591

Luminaire Tested: GAW-SA1A-827-U-T4FT

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P385591
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
Product Line: STREETWORKS
Catalog Number: GAW-SA1A-827-U-T4FT
Description: GALLEON WALL LUMINAIRE
(1) 80 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: 3681 lumens
Efficiency: N/A
Efficacy: 108.3 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

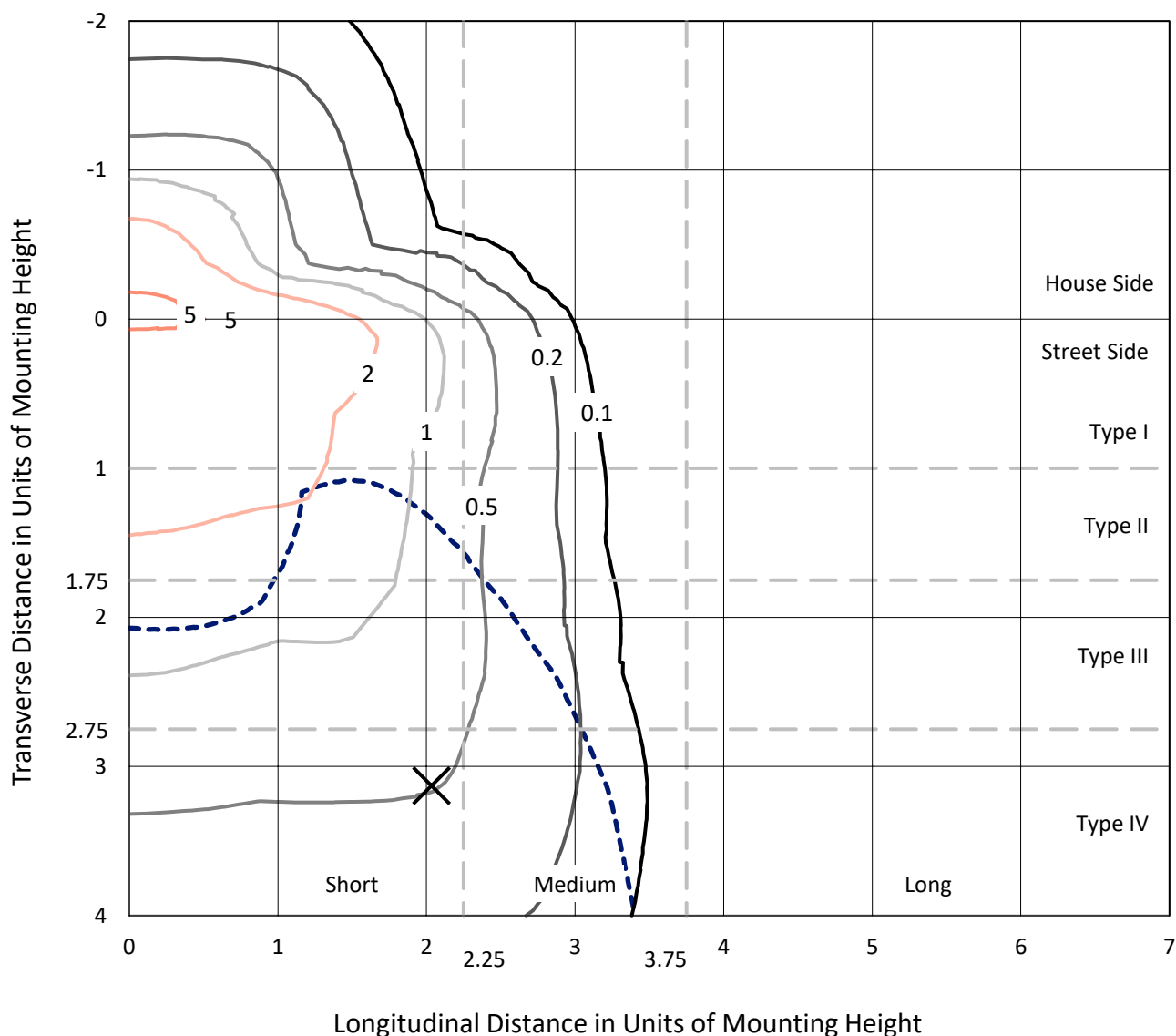
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

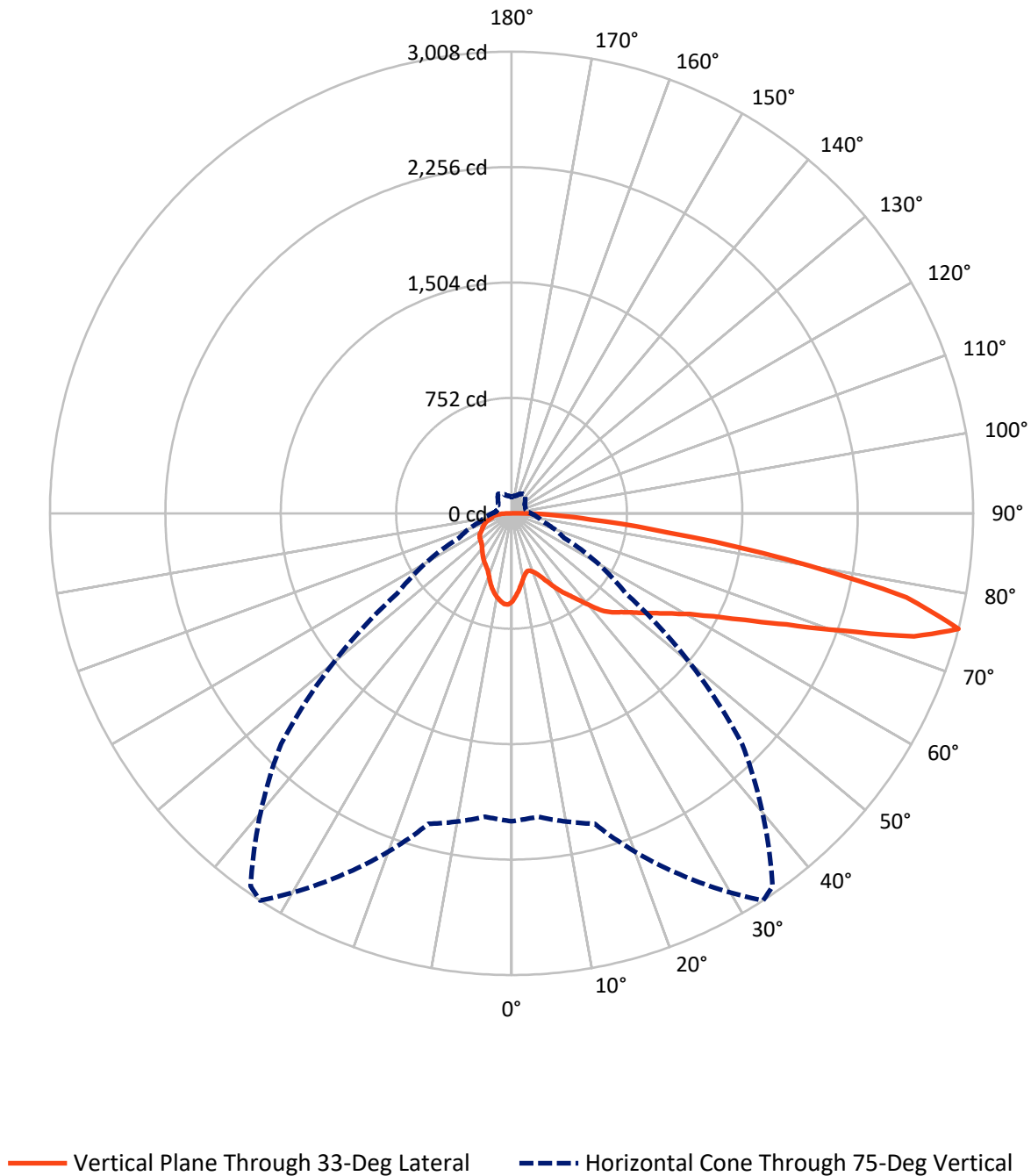
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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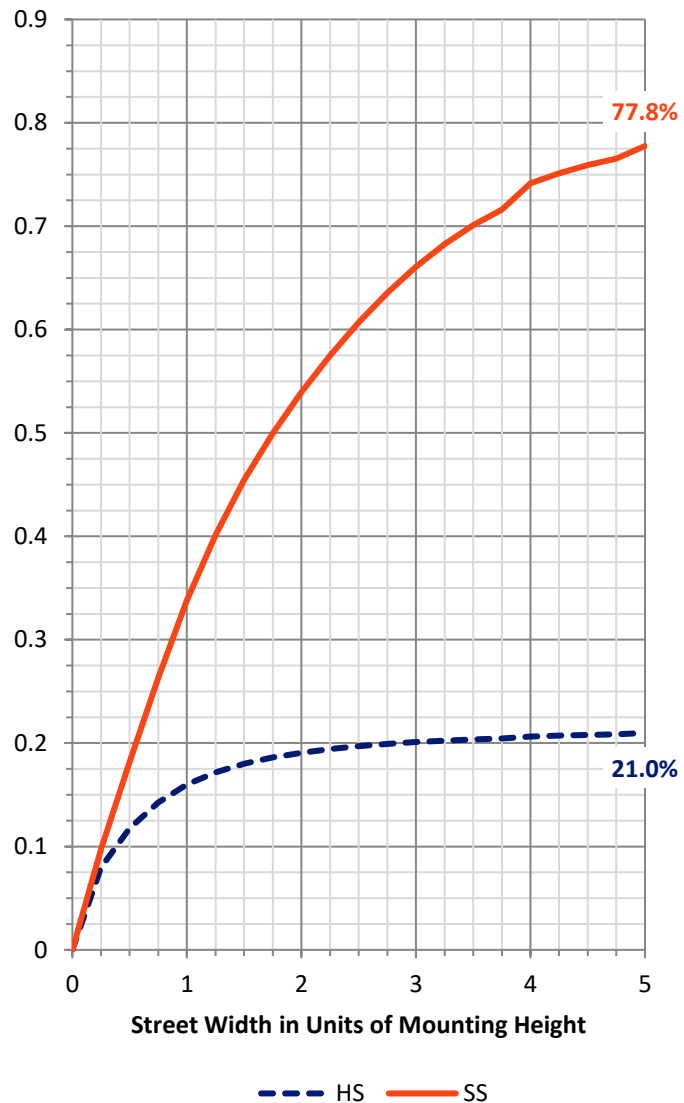
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	790.4	0.0	790.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	2890.6	0.0	2890.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	3681.0	0.0	3681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	1.4
10°-20°	140.9	3.8
20°-30°	230.2	6.3
30°-40°	342.8	9.3
40°-50°	491.6	13.4
50°-60°	674.9	18.3
60°-70°	845.0	23.0
70°-80°	764.4	20.8
80°-90°	139.2	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°	3681.0	100.0
0°-180°	3681.0	100.0

Coefficient of Utilization



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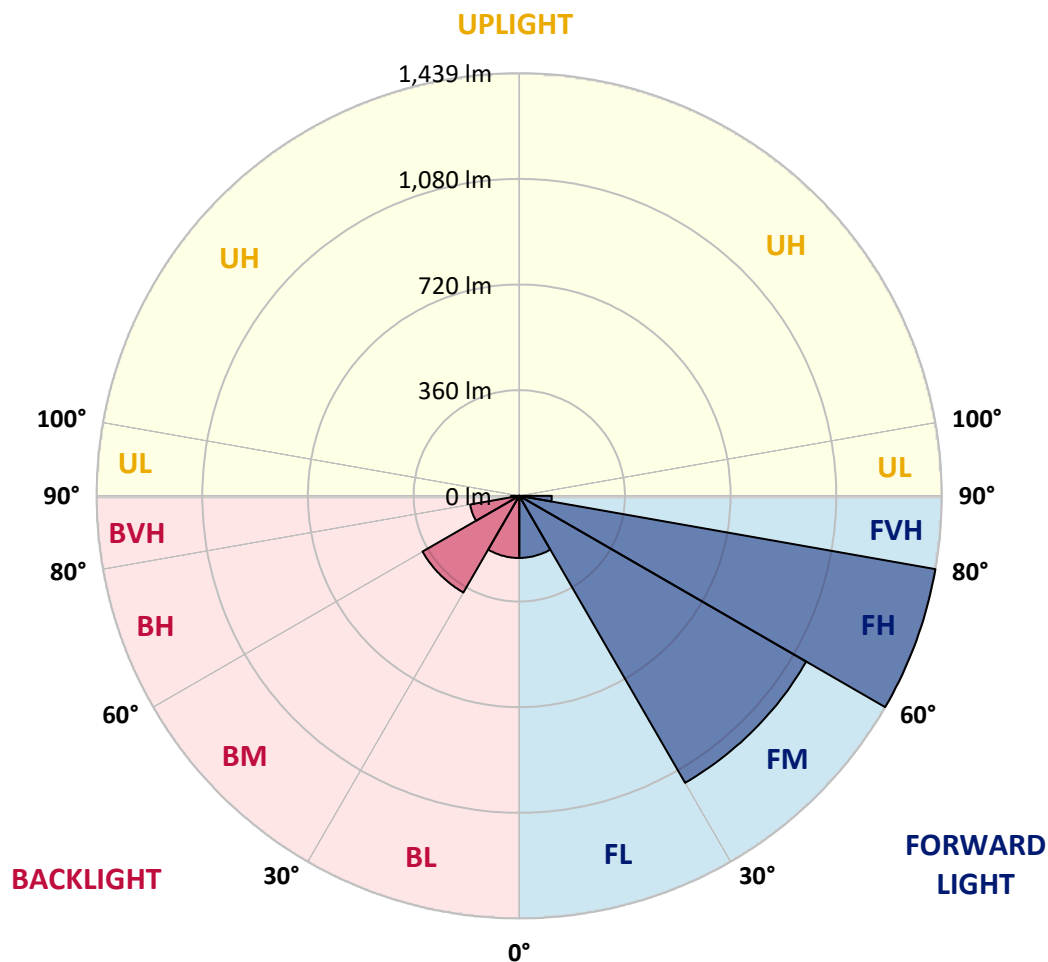
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	211.4	5.7			
FM	(30°-60°)	1128.9	30.7			
FH	(60°-80°)	1439.4	39.1			G1/1800
FVH	(80°-90°)	110.9	3.0			G2/225
BL	(0°-30°)	211.7	5.8	B1/500		
BM	(30°-60°)	380.4	10.3	B1/1000		
BH	(60°-80°)	170.0	4.6	B1/500		G1/500
BVH	(80°-90°)	28.3	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°	575.4	575.4	575.4	575.4	575.4	575.4	575.4	575.4	575.4	575.4	575.4
2.5°	534.3	532.3	536.1	536.6	539.9	541.2	545.7	552.9	558.7	565.4	571.5
5°	485.8	484.4	489.8	493.6	500.9	503.9	514.7	529.8	543.3	558.6	572.4
7.5°	439.8	439.1	445.0	453.7	462.1	466.3	485.0	507.0	529.5	554.1	575.4
10°	401.0	400.8	406.5	415.0	427.4	432.1	456.2	485.2	516.7	550.7	580.3
12.5°	379.3	380.2	382.9	390.0	401.4	406.1	433.0	467.0	506.1	549.5	587.6
15°	384.6	386.0	381.5	381.2	389.3	393.0	418.2	454.1	498.4	551.5	598.1
17.5°	407.4	407.6	395.6	387.9	392.9	394.8	413.6	446.7	494.0	555.8	611.3
20°	439.4	438.8	417.4	404.7	407.4	407.9	420.1	446.8	493.6	563.3	628.5
22.5°	481.9	477.2	448.5	431.2	430.5	429.8	436.8	456.2	499.2	575.5	649.0
25°	537.3	532.9	493.3	469.7	464.6	462.7	463.7	476.3	510.3	588.6	671.9
27.5°	599.0	591.3	553.1	519.7	509.1	506.4	500.3	504.7	522.3	601.2	699.1
30°	650.6	646.4	613.1	573.5	561.0	557.2	541.2	536.5	539.8	618.3	733.4
32.5°	679.5	676.7	656.5	624.4	612.9	607.5	584.9	575.5	567.7	645.4	779.9
35°	714.5	712.7	700.5	677.2	660.0	654.4	636.9	627.1	607.1	682.7	840.1
37.5°	759.0	757.1	757.3	738.5	718.0	712.8	701.2	690.9	658.3	731.6	905.4
40°	809.3	805.6	804.2	803.3	790.4	787.4	781.3	767.4	722.3	790.1	969.9
42.5°	885.1	872.0	844.0	854.6	867.4	865.9	870.9	850.8	793.6	859.3	1032.9
45°	958.2	936.7	888.4	890.7	918.8	927.3	964.4	950.2	870.7	935.1	1098.0
47.5°	991.5	975.3	934.2	934.3	962.2	979.8	1061.2	1051.0	951.9	1021.2	1177.4
50°	1028.8	1012.5	975.6	989.5	1013.8	1032.6	1154.7	1149.5	1029.0	1115.4	1272.7
52.5°	1069.5	1041.9	1018.5	1043.3	1077.4	1099.2	1248.2	1234.0	1099.9	1210.2	1382.1
55°	1070.0	1062.5	1080.3	1098.5	1149.5	1176.3	1346.3	1308.6	1157.6	1303.4	1471.3
57.5°	1130.9	1118.7	1156.4	1164.8	1231.5	1261.7	1443.8	1373.6	1216.3	1374.9	1519.3
60°	1211.5	1201.1	1232.0	1254.1	1332.9	1373.4	1547.9	1440.4	1262.5	1428.8	1517.0
62.5°	1350.7	1338.9	1338.5	1369.5	1475.7	1522.8	1664.8	1505.9	1280.8	1439.5	1452.3
65°	1554.6	1535.7	1500.3	1515.0	1672.9	1719.9	1795.4	1553.3	1256.6	1382.3	1285.6
67.5°	1752.9	1752.3	1708.7	1738.9	1933.3	1971.0	1944.1	1558.0	1181.2	1183.0	989.9
70°	1950.6	1953.2	1945.8	2051.1	2285.2	2324.3	2102.6	1494.8	1011.7	854.3	593.0
72.5°	2107.3	2106.6	2143.8	2415.2	2741.8	2733.0	2236.1	1303.3	726.4	461.2	283.4
75°	2005.8	1983.7	2094.3	2595.5	3007.9	2965.0	2122.5	909.1	377.0	209.9	152.6
77.5°	1308.3	1329.2	1491.6	2144.2	2631.0	2578.9	1557.2	424.2	177.6	137.7	110.6
80°	473.8	495.9	698.4	1214.6	1812.7	1804.2	766.9	174.3	120.2	104.0	80.6
82.5°	163.0	171.1	275.5	539.4	1023.4	1061.6	288.5	99.1	87.4	73.7	55.2
85°	64.0	73.2	126.0	259.5	516.2	520.0	116.9	59.3	60.8	48.3	30.3
87.5°	24.3	29.5	60.3	120.5	235.7	216.5	41.8	28.2	34.6	28.7	14.4
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°	575.4	575.4	575.4	575.4	575.4	575.4	575.4	575.4	575.4	575.4	575.4
2.5°	576.3	578.9	584.5	588.3	592.4	593.5	594.1	595.1	596.1	595.7	595.8
5°	579.8	585.0	594.1	597.9	599.6	597.6	593.7	590.5	588.2	586.9	586.6
7.5°	585.7	593.0	602.7	602.1	598.0	589.0	578.8	571.2	564.8	562.5	561.2
10°	593.4	602.1	608.8	601.6	589.7	574.1	558.8	547.0	537.5	533.8	533.1
12.5°	603.3	612.1	613.4	598.0	578.4	557.1	536.3	520.7	506.4	501.9	500.9
15°	616.2	624.4	616.6	591.8	564.4	535.7	508.9	487.6	472.6	467.0	465.0
17.5°	629.7	637.5	617.2	581.5	546.1	510.4	476.7	454.9	437.8	431.3	430.5
20°	645.8	649.4	614.5	566.7	520.9	477.6	442.1	421.6	412.5	407.9	407.4
22.5°	665.8	662.0	608.4	546.8	489.0	439.7	410.8	401.3	399.0	398.0	398.4
25°	686.9	675.2	599.4	520.7	448.7	401.8	387.9	390.6	393.7	393.3	393.3
27.5°	710.1	688.7	585.5	486.1	404.1	370.8	372.4	382.2	386.8	386.7	386.5
30°	740.0	703.9	567.9	444.5	362.4	348.9	358.9	370.9	377.1	376.9	377.0
32.5°	776.8	720.7	543.8	398.1	332.2	332.8	344.3	356.2	363.4	362.8	362.9
35°	819.7	739.5	511.3	352.3	312.3	319.9	329.1	337.3	344.2	343.3	342.4
37.5°	866.5	758.0	468.0	311.4	296.0	308.0	315.6	317.0	320.2	317.9	316.2
40°	911.0	772.1	412.4	277.8	279.6	297.8	302.7	297.2	291.4	290.7	288.4
42.5°	949.8	776.8	356.0	251.0	262.3	287.1	290.2	278.5	268.2	263.3	261.3
45°	990.8	778.4	303.5	228.5	245.7	277.6	280.9	265.2	250.7	240.3	236.9
47.5°	1044.3	790.4	262.7	211.8	232.9	271.2	275.9	254.7	235.9	221.0	217.8
50°	1114.4	814.0	229.5	199.1	224.7	267.0	272.4	244.4	223.7	205.7	202.6
52.5°	1192.2	835.8	202.7	188.8	216.7	259.6	267.8	237.0	212.2	191.6	188.2
55°	1246.6	819.1	181.1	178.1	206.2	249.1	261.4	230.8	195.8	177.9	174.8
57.5°	1257.0	762.1	164.7	167.1	193.7	235.9	251.6	216.9	186.9	171.9	168.7
60°	1228.5	682.8	152.5	156.9	180.2	219.2	233.3	207.1	178.4	165.6	162.9
62.5°	1157.0	601.6	143.4	147.8	167.6	202.3	221.9	196.8	169.7	158.3	155.6
65°	1012.4	505.0	134.8	139.6	155.9	187.7	211.6	187.3	161.2	152.5	149.9
67.5°	764.2	378.3	126.6	131.0	145.5	175.0	200.4	177.9	153.0	147.4	144.3
70°	450.0	236.9	117.4	121.9	134.5	161.7	188.4	167.6	142.7	140.1	136.2
72.5°	209.4	142.5	106.8	111.3	120.8	144.1	173.1	154.1	130.5	124.9	119.5
75°	125.0	104.3	94.3	98.3	105.0	125.2	153.7	140.4	118.9	111.5	105.9
77.5°	93.5	79.7	80.6	84.8	90.3	109.6	136.2	129.6	110.0	104.3	100.4
80°	67.3	60.5	65.7	70.3	76.0	99.7	130.5	119.8	99.4	91.8	88.2
82.5°	44.9	43.5	49.5	54.2	59.8	87.2	122.6	104.9	84.9	75.3	67.4
85°	24.8	26.2	33.3	35.3	40.2	61.4	100.4	84.3	64.0	51.5	49.2
87.5°	10.3	12.1	17.9	17.3	21.4	36.6	66.1	50.9	40.7	30.4	23.7
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)