

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: P318945

Luminaire Tested: **GAN-SA1A-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4051 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

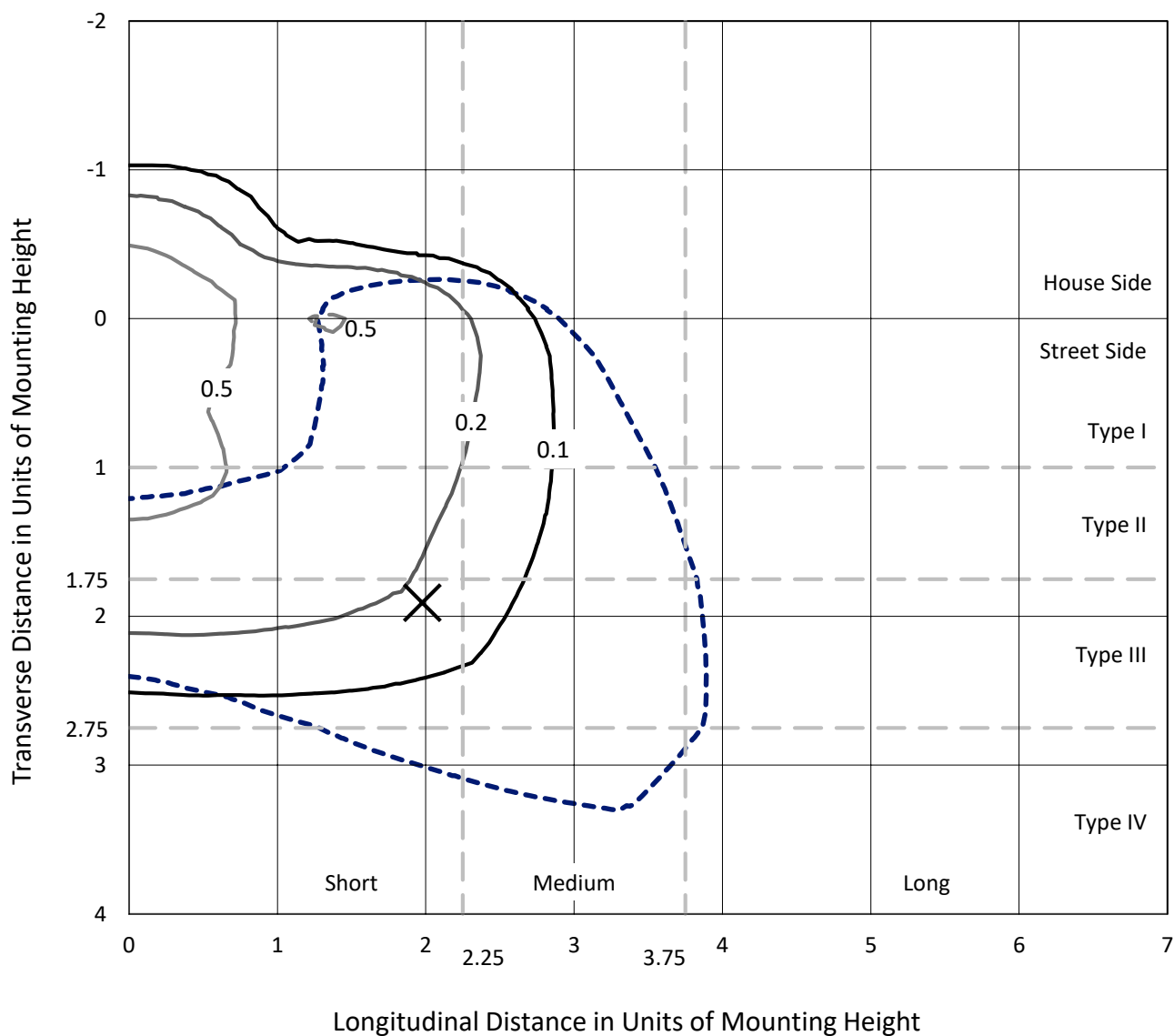
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

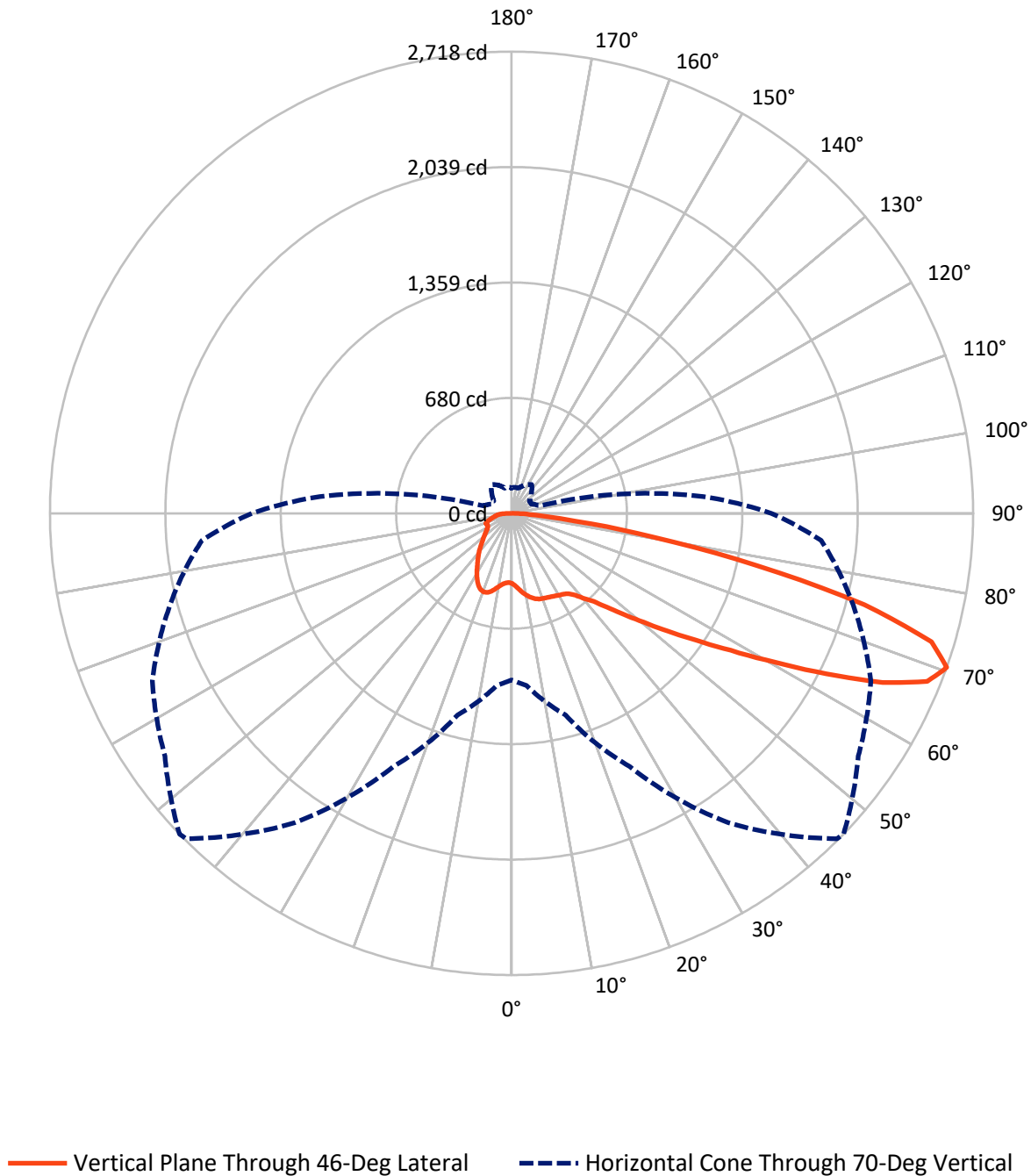
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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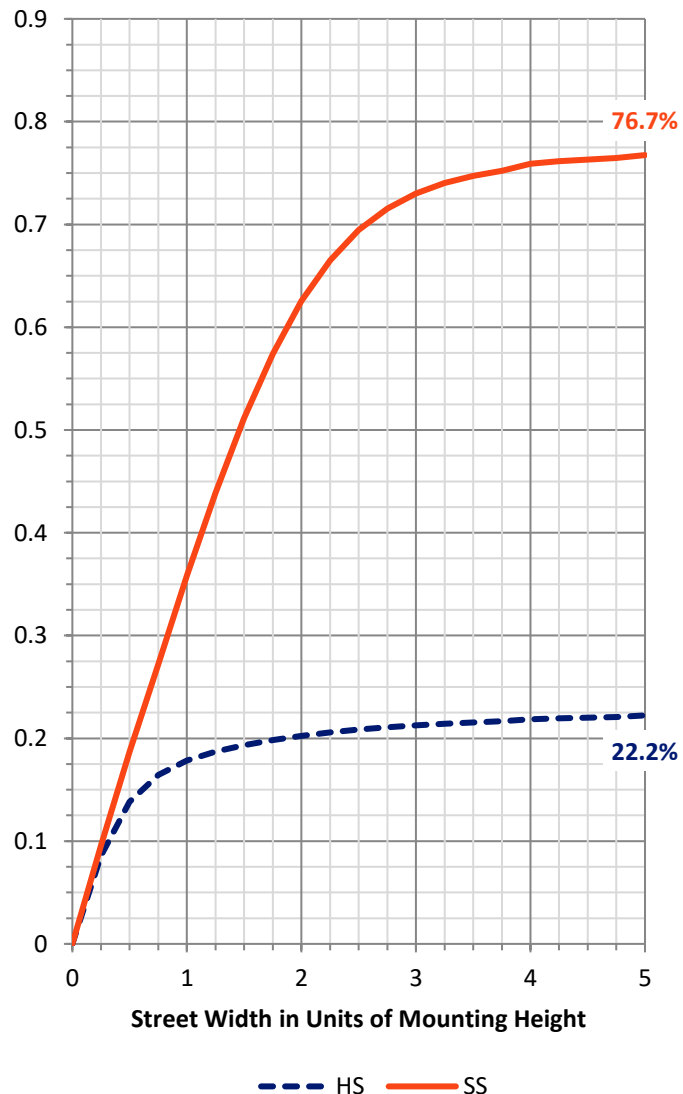
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	928.5	0.0	928.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3122.5	0.0	3122.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	4051.0	0.0	4051.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.1	1.0
10°-20°	140.2	3.5
20°-30°	233.7	5.8
30°-40°	331.7	8.2
40°-50°	487.9	12.0
50°-60°	826.2	20.4
60°-70°	1172.8	29.0
70°-80°	712.5	17.6
80°-90°	104.0	2.6
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°	4051.0	100.0
0°-180°	4051.0	100.0

Coefficient of Utilization



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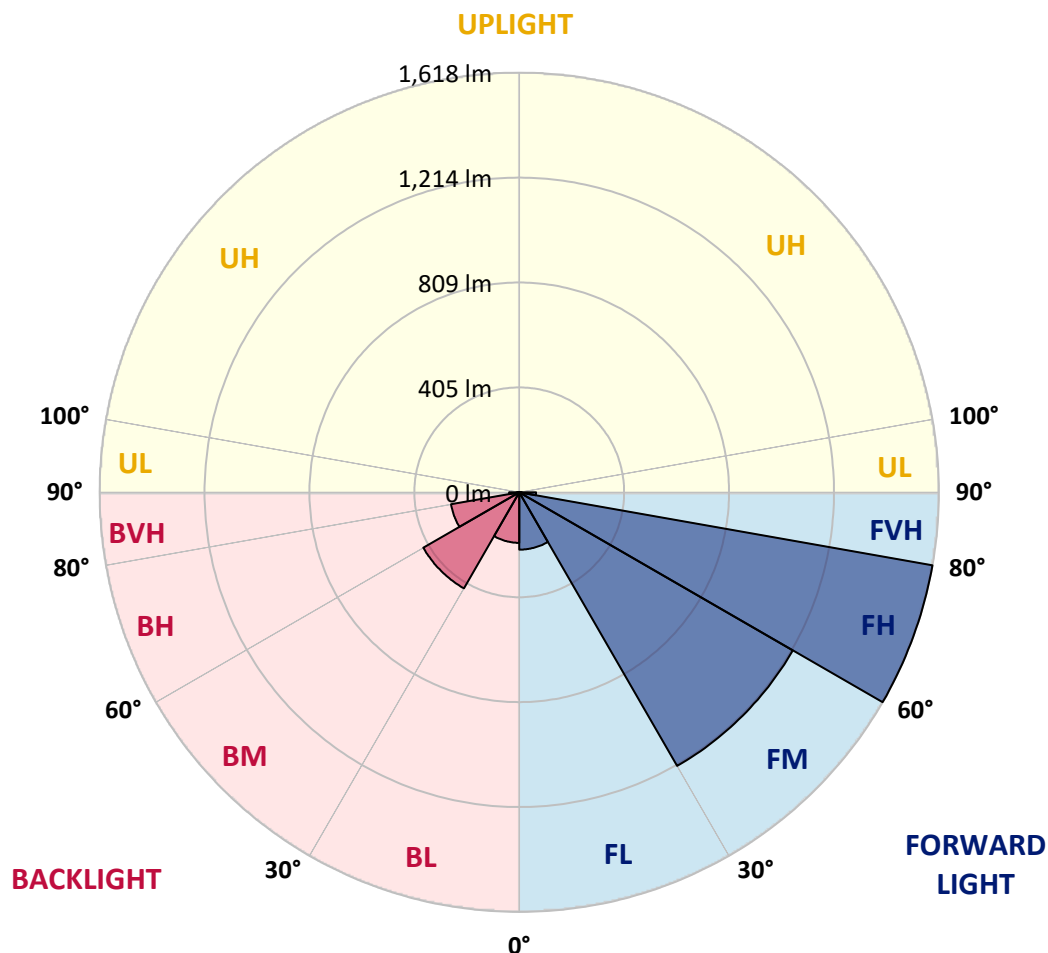
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	221.0	5.5			
FM	(30°-60°)	1218.4	30.1			
FH	(60°-80°)	1618.3	39.9			G1/1800
FVH	(80°-90°)	64.8	1.6			G1/100
BL	(0°-30°)	194.9	4.8	B1/500		
BM	(30°-60°)	427.4	10.6	B1/1000		
BH	(60°-80°)	266.9	6.6	B1/500		G1/500
BVH	(80°-90°)	39.2	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7
2.5°	433.4	433.7	434.2	432.8	428.9	427.8	427.4	423.4	420.8	416.9	413.5
5°	468.0	468.3	467.5	463.6	455.0	448.6	448.1	438.9	430.6	421.7	415.1
7.5°	504.2	504.6	502.0	494.7	482.6	471.5	470.8	458.3	445.7	432.3	422.3
10°	536.2	534.6	530.3	520.0	505.7	492.2	491.6	478.6	464.0	447.8	434.5
12.5°	557.6	556.2	550.7	538.2	522.5	510.0	508.9	496.9	482.7	465.0	449.0
15°	569.4	570.3	562.9	548.7	533.5	522.9	522.0	513.4	500.8	482.9	464.6
17.5°	570.9	571.7	564.5	550.5	538.0	530.8	530.4	524.7	515.6	498.4	479.3
20°	562.0	562.6	556.6	545.1	536.9	534.7	534.6	532.1	525.3	510.0	491.5
22.5°	549.1	549.6	545.3	536.9	534.2	537.6	538.6	537.6	532.8	518.5	501.0
25°	545.9	545.7	541.2	532.8	535.1	542.5	543.7	544.1	540.8	528.3	513.2
27.5°	561.3	560.4	551.9	538.3	539.8	548.7	550.4	554.4	552.3	541.4	527.1
30°	605.8	604.2	586.8	559.4	551.9	556.5	558.6	564.9	565.4	556.2	545.5
32.5°	681.0	678.9	647.8	598.8	572.3	564.4	566.3	575.9	581.0	574.0	562.4
35°	775.9	773.6	732.8	665.7	606.4	579.5	580.9	588.5	598.8	588.8	573.5
37.5°	874.9	869.2	830.0	744.5	660.6	611.8	611.8	612.8	617.6	596.8	586.6
40°	973.4	967.7	932.2	837.1	730.7	662.7	659.5	638.0	634.1	616.2	612.8
42.5°	1064.9	1063.2	1042.3	941.8	813.1	712.7	708.3	671.8	672.7	661.6	661.7
45°	1162.2	1162.2	1145.1	1047.4	909.0	793.1	788.7	735.0	743.4	738.2	750.6
47.5°	1241.6	1244.1	1241.8	1157.5	1020.6	895.3	887.3	822.7	846.0	863.6	899.5
50°	1322.7	1326.6	1327.0	1278.2	1155.5	1016.8	1007.6	939.0	991.0	1041.4	1112.0
52.5°	1440.4	1449.2	1414.4	1398.7	1320.8	1160.9	1151.9	1088.6	1175.4	1246.2	1367.8
55°	1549.5	1541.9	1517.1	1526.8	1497.7	1325.1	1318.3	1262.7	1380.8	1472.9	1630.8
57.5°	1608.6	1608.0	1633.0	1674.6	1688.4	1527.5	1521.8	1467.7	1612.5	1681.6	1877.7
60°	1677.9	1678.9	1740.7	1835.1	1892.2	1779.5	1777.0	1736.0	1837.5	1876.6	2071.4
62.5°	1687.6	1705.1	1811.5	1974.0	2083.0	2074.0	2079.5	1977.6	2038.8	2032.1	2215.9
65°	1576.0	1599.0	1791.7	2016.0	2272.7	2396.0	2401.2	2220.7	2197.5	2165.1	2267.7
67.5°	1347.3	1381.4	1590.7	1924.7	2335.2	2634.1	2641.3	2409.1	2329.2	2210.1	2143.2
70°	980.4	1018.3	1229.0	1643.8	2223.7	2710.2	2718.4	2492.4	2334.2	2081.9	1829.6
72.5°	592.3	621.9	795.6	1210.1	1876.8	2571.5	2586.1	2386.7	2131.1	1763.4	1351.0
75°	260.1	279.5	384.7	697.3	1343.7	2127.6	2145.8	2042.9	1731.6	1281.5	798.5
77.5°	110.8	116.3	157.8	302.9	759.6	1453.9	1478.8	1492.7	1174.8	697.3	337.4
80°	69.0	71.3	89.3	137.1	355.5	816.6	843.5	878.3	583.4	256.3	117.8
82.5°	42.0	44.5	59.3	82.9	185.1	370.2	383.0	407.6	226.4	110.8	61.0
85°	25.2	27.0	36.3	52.4	105.4	145.6	145.4	160.8	106.6	71.3	32.2
87.5°	12.1	13.4	19.4	27.2	53.1	54.6	51.2	57.9	64.7	46.7	16.2
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°	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7	412.7
2.5°	412.4	411.9	410.1	408.7	408.4	407.6	406.9	407.3	407.9	408.0	408.0
5°	412.3	410.8	408.4	407.4	408.7	410.4	412.4	415.2	416.9	418.1	419.0
7.5°	419.0	416.0	413.4	412.9	415.4	419.8	424.5	430.3	434.3	437.1	437.7
10°	430.0	426.4	423.8	424.4	428.8	435.2	441.8	449.3	455.4	459.2	459.4
12.5°	442.8	439.3	436.8	439.2	446.5	454.3	461.2	467.8	473.3	477.0	477.0
15°	457.5	455.0	452.1	457.5	467.5	474.4	477.3	480.5	483.6	486.3	485.8
17.5°	471.6	469.3	467.8	474.1	484.5	487.7	485.8	483.4	483.4	484.9	485.2
20°	483.8	481.8	482.7	489.0	494.4	491.0	483.8	476.4	473.3	474.1	475.0
22.5°	494.5	493.5	496.5	499.4	495.5	483.8	470.5	460.4	456.7	456.4	456.7
25°	507.0	506.9	510.5	505.2	488.0	466.5	448.6	438.8	436.7	438.4	441.1
27.5°	522.5	524.0	525.8	506.6	472.7	440.3	422.1	415.4	417.4	421.5	424.1
30°	542.3	546.5	542.6	503.1	450.8	410.4	393.0	391.1	396.8	402.5	405.2
32.5°	561.6	568.1	558.7	494.1	422.6	378.6	365.2	364.6	371.5	377.1	381.0
35°	577.1	590.0	570.8	476.2	389.8	349.4	339.5	335.8	338.3	344.8	349.2
37.5°	597.4	618.9	579.1	448.9	354.4	325.2	313.7	305.1	302.9	305.6	307.8
40°	634.4	662.8	583.0	410.8	319.7	301.1	289.5	276.9	268.1	261.7	261.9
42.5°	694.8	720.1	580.5	364.5	287.7	277.5	264.4	249.8	235.7	221.3	220.2
45°	793.0	805.2	573.0	315.4	259.5	252.9	240.5	226.0	207.1	190.8	189.2
47.5°	950.1	923.0	561.3	272.6	234.7	231.9	220.6	203.8	183.8	170.7	169.6
50°	1164.3	1093.1	555.7	238.5	212.8	213.6	204.3	186.6	167.7	158.0	156.9
52.5°	1420.5	1291.3	566.6	212.1	195.2	198.1	191.2	174.5	158.7	151.1	150.0
55°	1686.2	1496.4	578.4	193.0	178.6	184.2	181.9	168.2	153.9	146.8	145.8
57.5°	1913.7	1649.6	554.8	177.5	163.7	172.6	174.7	164.1	151.4	145.0	143.9
60°	2056.9	1711.3	493.0	162.9	151.9	163.3	170.5	163.0	152.4	151.8	151.0
62.5°	2124.9	1705.9	400.2	151.4	144.6	159.3	173.6	169.3	163.5	168.4	168.9
65°	2094.4	1624.4	298.1	143.8	139.3	160.8	182.7	181.1	166.6	171.6	172.3
67.5°	1893.6	1429.9	220.7	137.1	133.5	165.1	199.4	184.9	160.4	164.0	161.8
70°	1530.5	1133.6	170.2	129.6	127.5	164.6	206.8	182.6	153.6	154.4	148.5
72.5°	1055.4	773.0	138.5	122.7	118.9	150.0	201.6	176.8	147.9	141.5	133.6
75°	574.0	414.9	117.7	115.5	103.8	131.7	191.9	172.6	142.8	134.3	129.9
77.5°	225.8	172.2	102.2	105.6	90.8	116.3	181.1	164.7	135.7	124.6	122.4
80°	92.2	87.9	84.7	91.4	78.1	101.8	168.0	155.4	127.3	115.6	111.2
82.5°	52.3	54.6	65.9	72.1	63.4	93.7	161.8	147.9	117.1	103.6	98.3
85°	26.8	32.0	45.9	51.7	46.6	79.7	149.0	129.5	94.0	79.3	79.7
87.5°	12.9	17.9	29.0	32.4	30.2	57.7	111.3	93.9	73.2	57.9	56.1
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)