

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: McGRAW-EDISON

Report Number: P944850

Luminaire Tested: **GALN-SB1A-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-722-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3700 lumens
Efficiency: N/A
Efficacy: 119.7 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

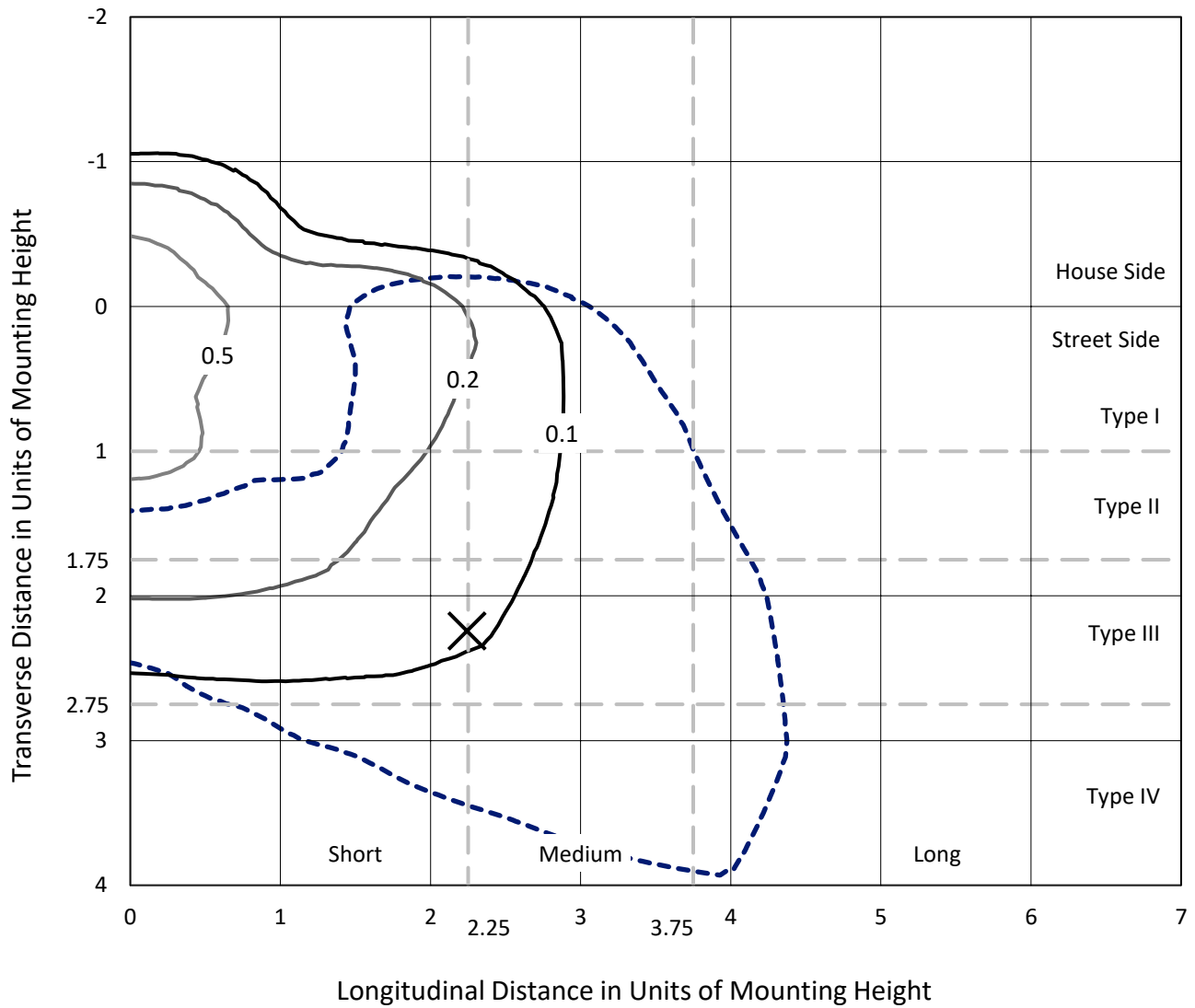
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

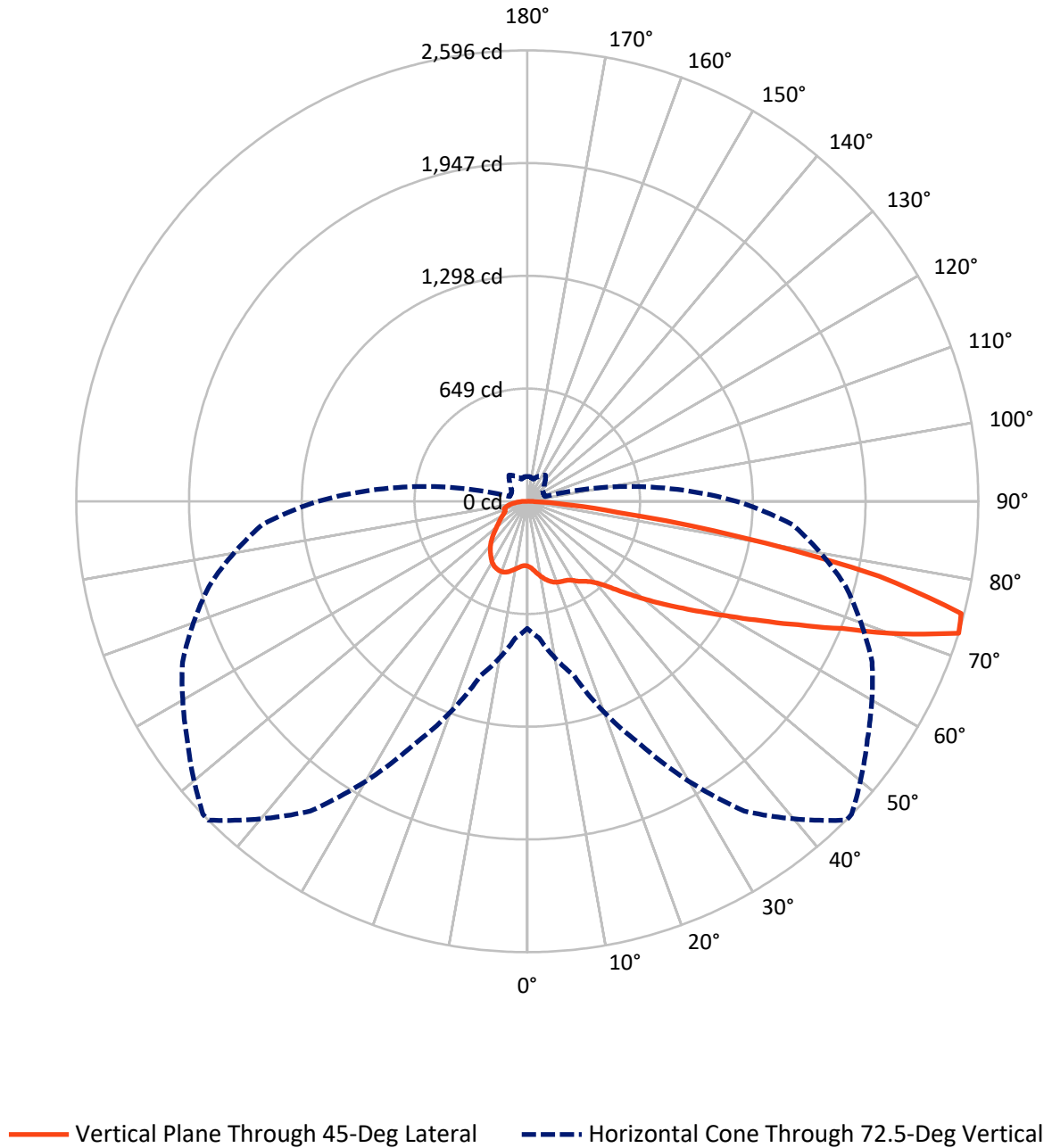
✕ Max cd
 - - - 1/2 Max cd



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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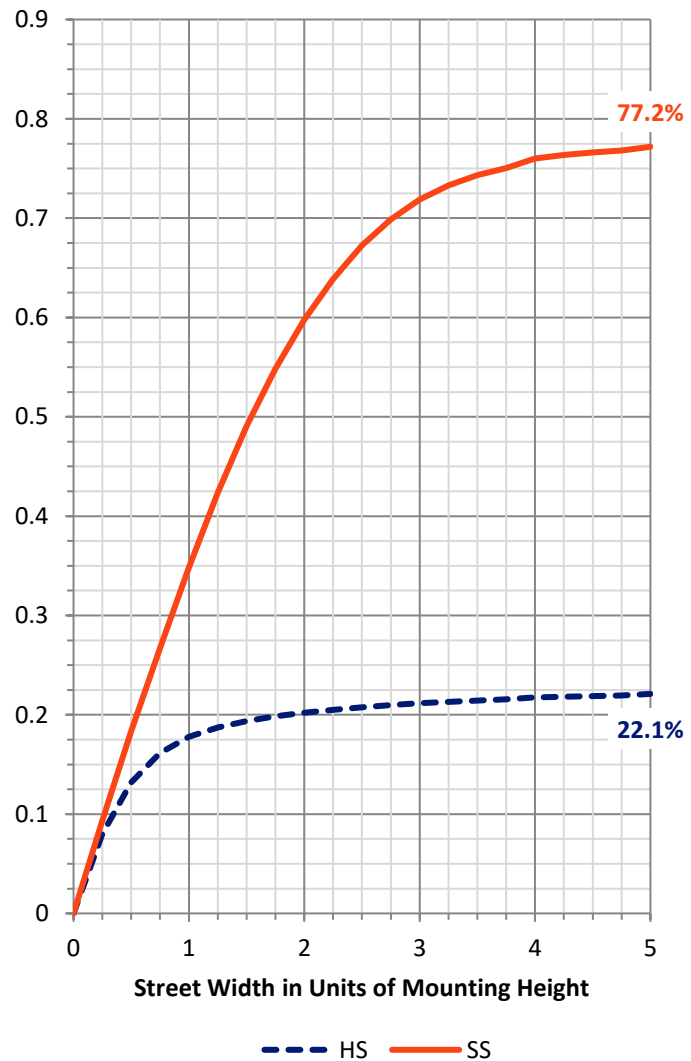
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	836.4	0.0	836.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	2863.6	0.0	2863.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	3700.0	0.0	3700.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	1.0
10°-20°	126.7	3.4
20°-30°	220.3	6.0
30°-40°	315.9	8.5
40°-50°	444.8	12.0
50°-60°	681.2	18.4
60°-70°	986.9	26.7
70°-80°	788.1	21.3
80°-90°	98.1	2.7
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°	3700.0	100.0
0°-180°	3700.0	100.0



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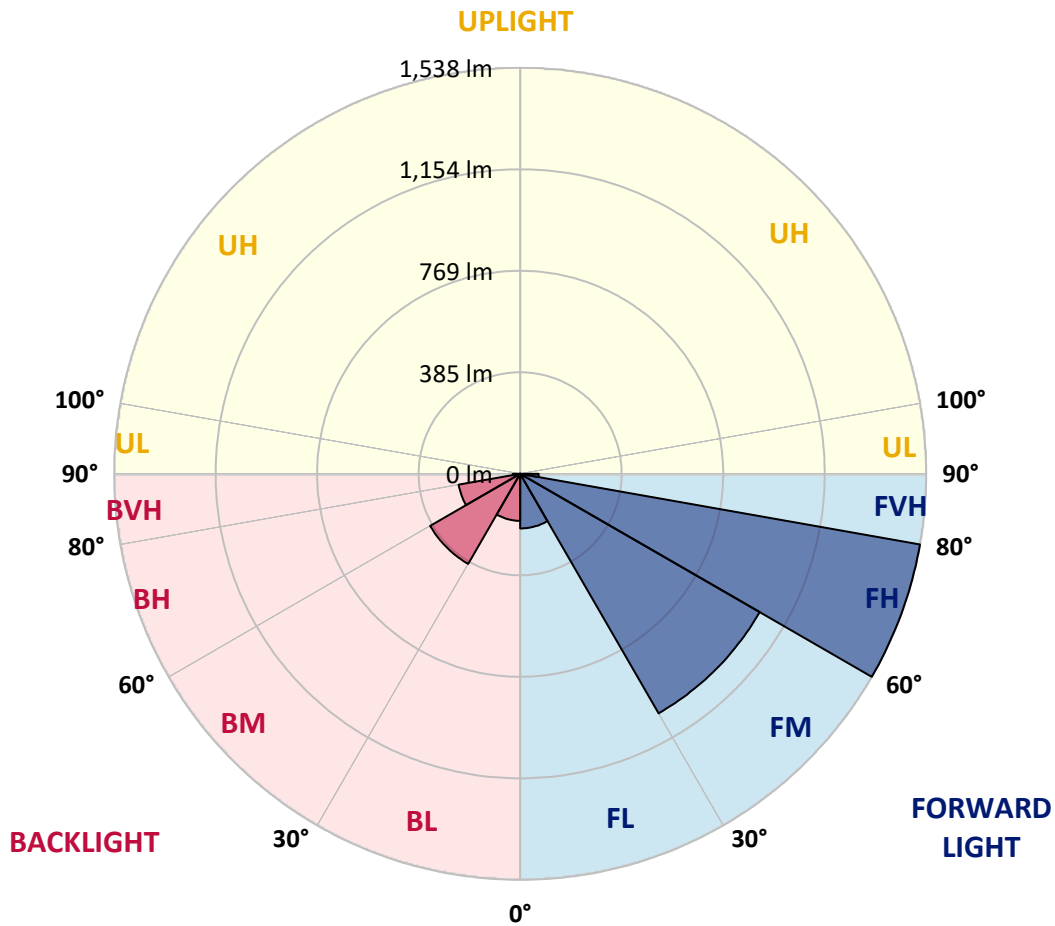
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	206.9	5.6			
FM (30°-60°)	1048.0	28.3			
FH (60°-80°)	1538.2	41.6			G1/1800
FVH (80°-90°)	70.4	1.9			G1/100
BL (0°-30°)	178.1	4.8	B1/500		
BM (30°-60°)	393.9	10.6	B1/1000		
BH (60°-80°)	236.8	6.4	B1/500		G1/500
BVH (80°-90°)	27.7	0.7			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°	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3
2.5°	387.9	390.4	388.1	385.9	385.0	382.4	382.2	380.7	379.7	377.0	376.2
5°	415.0	418.3	414.4	410.1	406.2	400.0	399.2	394.7	389.6	383.8	380.5
7.5°	445.6	448.5	444.0	437.6	430.8	420.4	420.2	412.0	404.1	394.1	388.5
10°	472.3	476.2	470.1	461.4	452.8	441.1	439.7	430.4	420.2	407.4	398.8
12.5°	495.9	498.6	492.7	482.0	472.1	460.4	458.6	448.3	437.0	422.4	411.5
15°	514.6	518.1	510.3	498.8	488.3	476.8	475.2	465.8	454.5	439.1	425.1
17.5°	526.8	529.8	521.8	508.9	498.8	489.2	488.1	480.3	470.3	454.7	439.7
20°	531.5	534.6	526.3	513.2	503.8	496.4	495.9	490.2	483.4	469.2	454.0
22.5°	536.2	539.1	528.2	514.6	506.4	501.7	501.5	497.8	495.1	483.4	468.6
25°	555.1	555.9	541.3	521.6	509.9	505.8	505.6	505.4	506.6	497.4	484.4
27.5°	571.5	571.3	558.8	540.3	522.2	513.6	513.4	515.3	519.1	511.5	500.7
30°	595.5	593.3	578.5	559.2	542.6	529.4	528.2	526.5	529.4	523.3	517.1
32.5°	646.3	639.5	615.5	581.2	559.6	549.5	547.9	537.0	538.2	534.5	531.3
35°	719.2	710.3	678.3	622.9	580.6	566.2	565.4	551.6	549.3	546.0	547.1
37.5°	806.0	794.9	757.6	683.4	616.9	585.7	584.5	572.1	562.5	559.0	565.6
40°	893.1	879.1	848.3	757.0	670.3	618.3	614.6	595.7	584.7	578.9	592.9
42.5°	977.7	966.0	939.7	839.7	736.2	665.8	657.6	625.3	617.1	611.6	637.0
45°	1052.5	1042.0	1022.7	928.0	813.4	730.5	722.5	669.7	667.2	667.2	703.8
47.5°	1113.3	1111.0	1090.5	1018.0	904.4	804.2	790.4	731.5	738.3	748.9	798.8
50°	1180.8	1174.3	1152.5	1106.7	1011.4	888.6	877.3	807.3	832.9	861.7	936.0
52.5°	1242.8	1246.3	1221.9	1199.1	1132.2	982.8	962.9	896.8	952.0	999.7	1096.8
55°	1306.5	1306.7	1299.9	1296.8	1258.9	1086.8	1065.0	1004.4	1092.1	1151.3	1284.3
57.5°	1366.3	1366.7	1376.9	1404.3	1405.9	1206.9	1182.1	1136.5	1247.8	1308.3	1477.6
60°	1419.7	1422.5	1450.2	1514.5	1535.1	1344.5	1321.1	1292.7	1408.8	1469.6	1680.9
62.5°	1437.7	1447.6	1509.2	1600.6	1662.8	1513.3	1490.3	1473.3	1578.0	1634.5	1850.9
65°	1407.3	1430.1	1549.2	1671.8	1794.2	1713.9	1691.1	1672.5	1753.8	1807.0	1990.4
67.5°	1332.6	1362.1	1546.8	1746.4	1953.6	1955.2	1933.9	1890.5	1942.3	1962.8	2035.9
70°	1136.0	1180.0	1410.6	1774.3	2136.6	2285.2	2264.7	2152.8	2130.4	2031.4	1908.0
72.5°	731.9	791.2	1038.7	1544.9	2177.4	2595.7	2594.5	2389.6	2189.8	1898.1	1530.3
75°	267.0	303.3	482.6	969.7	1827.7	2579.9	2587.5	2349.1	1999.0	1466.1	953.3
77.5°	97.3	106.4	157.5	372.7	1124.1	2070.0	2085.8	1878.0	1422.9	735.8	377.7
80°	51.1	56.1	80.7	144.6	481.6	1229.3	1254.1	1116.1	668.7	221.6	113.2
82.5°	28.3	30.6	45.2	78.5	216.9	525.7	540.5	440.9	235.3	93.9	46.8
85°	15.2	16.2	21.2	42.9	106.0	182.2	186.3	131.8	93.8	55.2	22.6
87.5°	4.5	5.5	7.0	13.6	41.5	40.9	41.9	26.1	37.0	27.9	7.4
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°	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3
2.5°	375.0	374.4	372.3	371.3	370.1	369.9	370.9	371.1	371.3	371.5	372.3
5°	378.5	376.6	374.6	373.5	373.8	374.0	376.0	377.4	378.3	379.1	379.5
7.5°	385.3	383.8	380.5	380.3	380.9	382.6	385.1	388.3	390.0	391.4	391.8
10°	395.5	392.6	388.7	389.2	390.4	392.9	398.2	400.7	403.7	406.2	405.6
12.5°	405.8	403.3	398.8	399.2	401.1	405.6	410.7	413.8	415.7	417.7	418.5
15°	419.3	414.8	409.9	409.9	413.4	418.3	420.6	423.2	424.3	426.5	427.2
17.5°	433.1	427.2	420.8	420.4	424.7	427.1	428.4	428.8	429.2	431.5	432.3
20°	446.9	440.5	431.3	430.6	431.5	431.1	431.0	430.6	431.1	434.1	435.2
22.5°	460.6	453.2	440.5	437.0	434.3	430.6	430.4	430.2	430.6	433.5	435.4
25°	476.6	467.6	450.6	440.1	431.0	425.9	426.5	426.7	427.1	429.4	432.5
27.5°	493.9	484.0	460.0	439.1	422.6	419.1	418.1	418.7	420.0	423.7	427.4
30°	511.3	499.6	468.6	435.2	412.0	407.2	404.1	405.4	409.7	413.4	417.5
32.5°	527.0	515.3	475.4	426.7	398.6	391.0	386.9	388.7	392.9	394.3	399.2
35°	545.6	532.3	478.3	413.0	384.0	372.3	366.8	364.3	366.4	365.1	369.4
37.5°	566.2	552.4	477.9	395.1	366.8	353.4	345.8	336.2	331.7	327.1	330.0
40°	596.8	576.9	473.2	373.5	345.6	333.3	319.7	303.5	293.3	284.2	284.8
42.5°	638.5	611.1	464.7	349.7	321.6	310.1	291.6	272.7	256.7	241.5	240.1
45°	700.7	655.7	454.0	324.3	295.7	284.4	264.3	243.1	224.9	205.4	203.1
47.5°	790.4	715.7	443.8	295.5	268.4	258.1	239.9	220.3	198.8	179.9	177.8
50°	913.6	801.9	434.5	267.4	241.5	233.7	219.3	199.2	177.6	162.4	161.4
52.5°	1070.3	919.0	430.6	240.3	216.4	213.4	201.9	183.2	162.8	149.9	148.9
55°	1250.2	1059.2	430.6	214.4	194.3	195.3	187.3	170.0	152.2	140.7	139.6
57.5°	1433.8	1201.1	422.8	190.4	175.6	179.7	174.6	159.4	143.5	131.6	129.6
60°	1603.0	1319.9	391.2	168.6	159.0	165.5	162.2	149.1	129.6	119.7	118.1
62.5°	1733.0	1387.0	330.4	151.3	145.4	152.8	151.1	135.5	127.1	123.0	121.6
65°	1798.1	1376.1	252.6	135.9	133.9	145.4	141.7	141.1	134.5	129.8	128.3
67.5°	1758.1	1282.1	183.2	124.5	127.3	138.6	152.8	155.2	142.9	133.7	132.2
70°	1582.9	1112.2	136.4	113.8	118.9	138.8	174.3	162.4	140.1	129.4	127.7
72.5°	1204.2	829.4	105.8	102.5	108.0	139.8	183.8	159.0	132.3	143.1	141.9
75°	688.6	455.3	85.0	88.7	94.3	130.6	178.9	150.5	126.3	131.4	131.4
77.5°	262.5	175.0	70.2	75.0	75.8	114.0	171.1	149.9	120.3	117.3	107.0
80°	91.0	68.4	58.1	59.6	58.7	101.4	164.1	130.4	98.4	88.1	85.2
82.5°	37.2	34.1	46.0	44.1	41.7	78.7	132.5	106.6	80.5	71.1	70.4
85°	16.2	21.6	30.4	26.7	24.2	54.6	106.2	90.2	68.0	58.7	58.5
87.5°	3.3	8.2	12.9	12.1	12.5	36.4	75.4	64.1	48.1	36.1	28.3
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)