

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: P945207

Luminaire Tested: **GALN-SB1B-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945207
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-SB1B-722-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4644 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 39.8
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



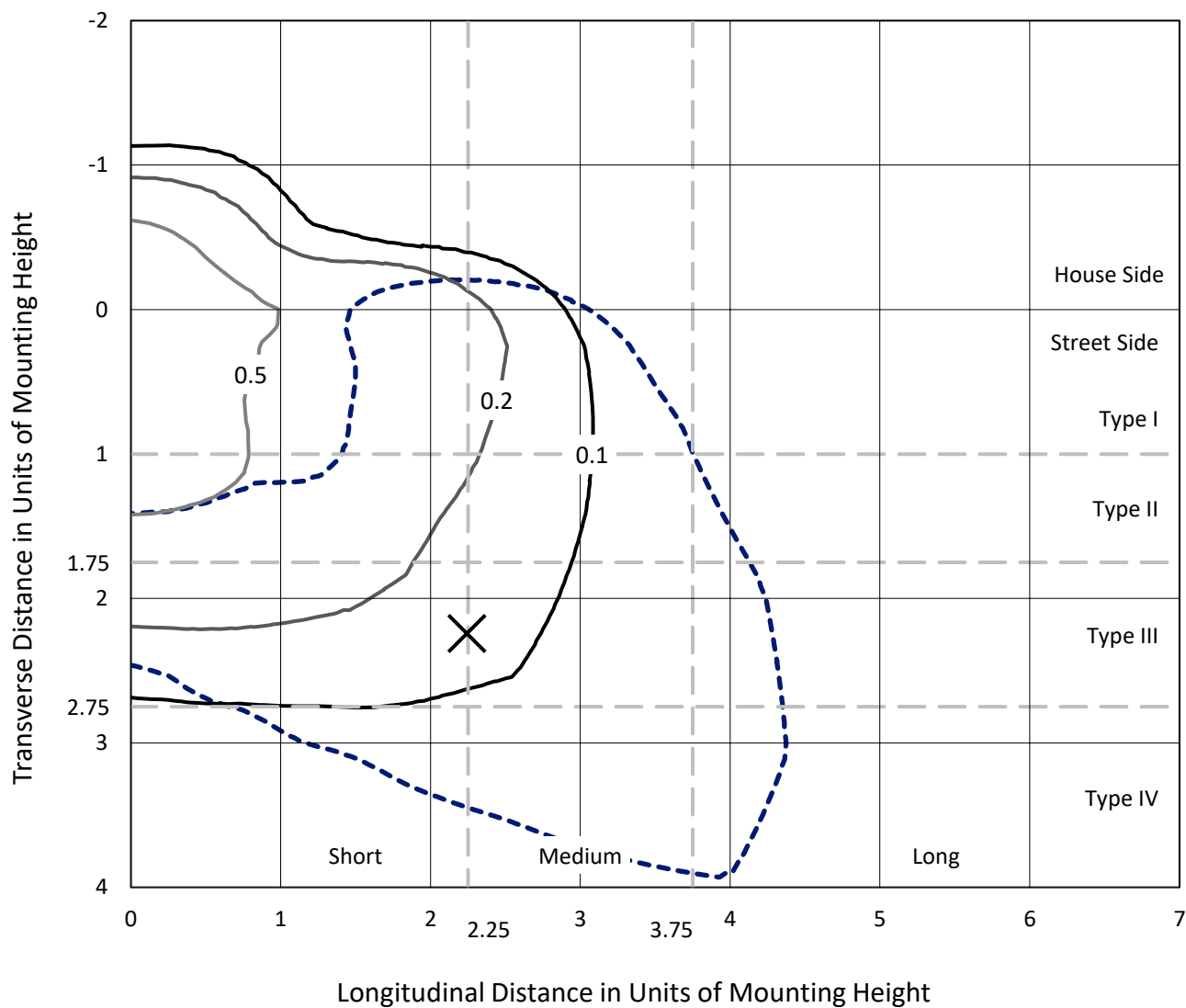
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

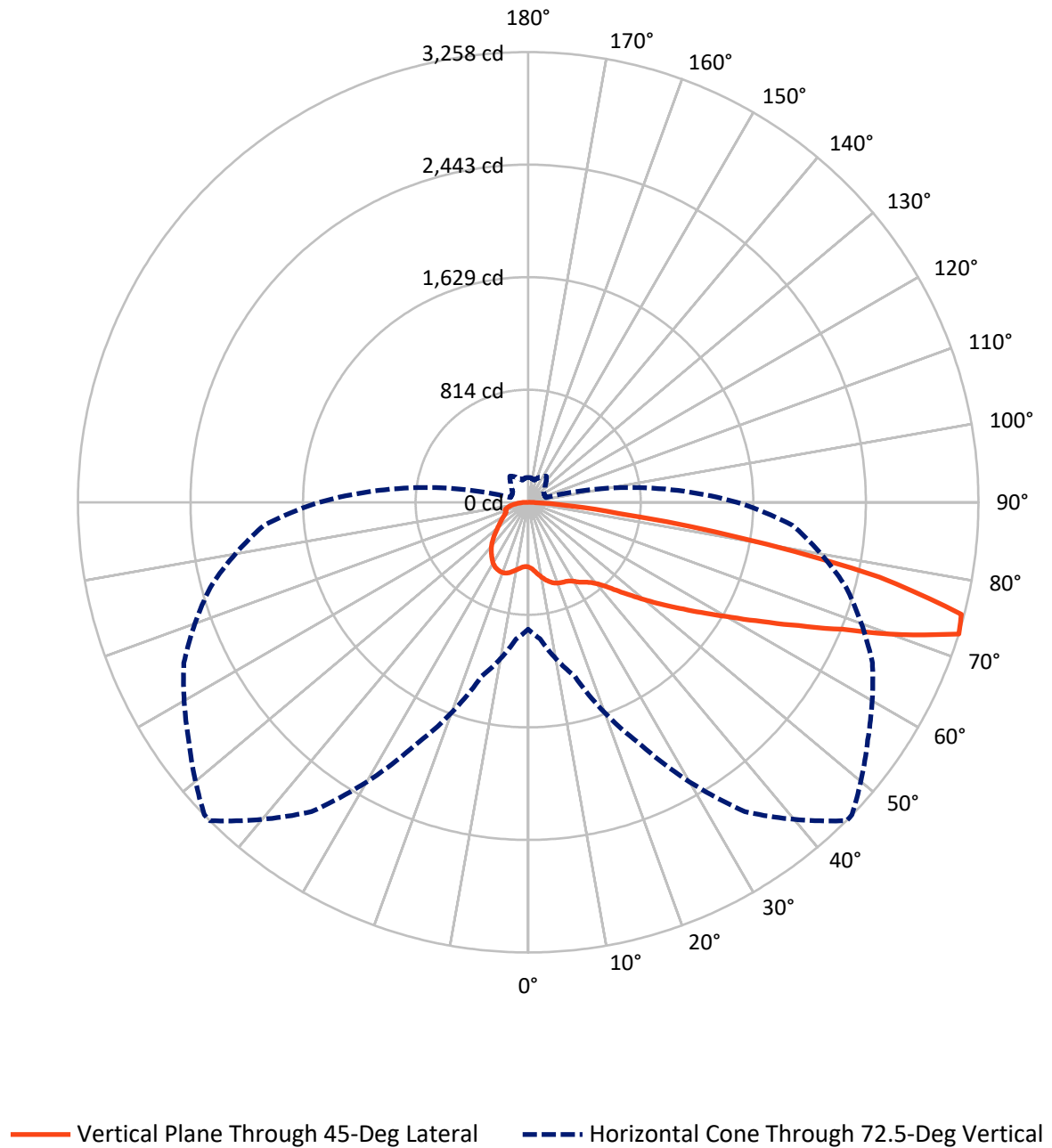


Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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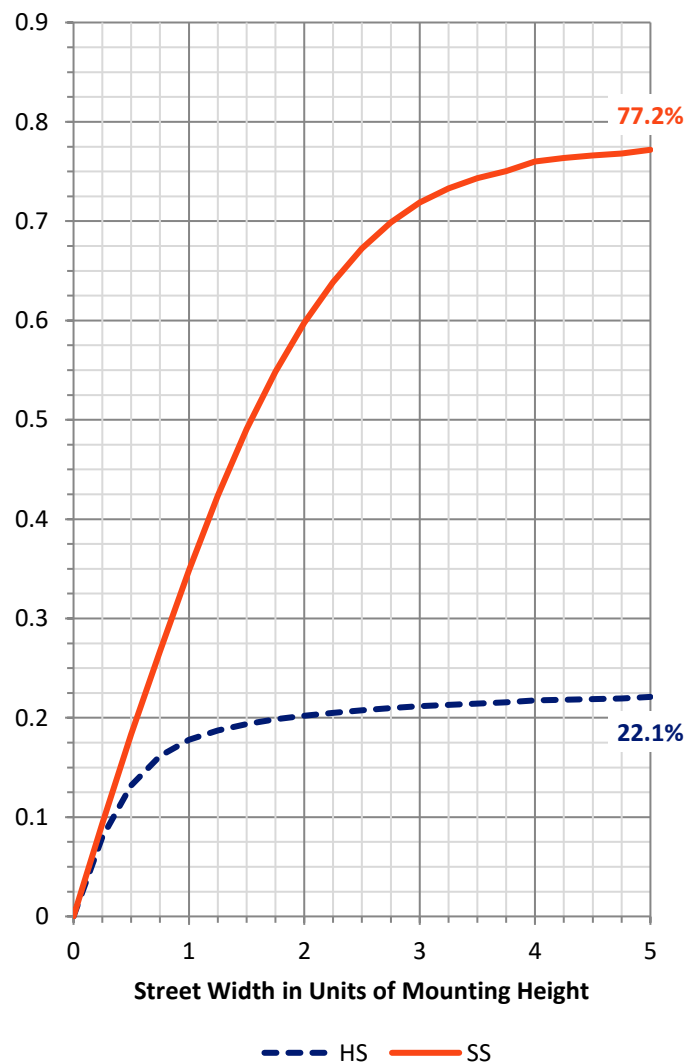
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1049.8	0.0	1049.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3594.1	0.0	3594.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	4644.0	0.0	4644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	1.0
10°-20°	159.0	3.4
20°-30°	276.6	6.0
30°-40°	396.5	8.5
40°-50°	558.2	12.0
50°-60°	855.1	18.4
60°-70°	1238.7	26.7
70°-80°	989.2	21.3
80°-90°	123.2	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°	4644.0	100.0
0°-180°	4644.0	100.0

Coefficient of Utilization



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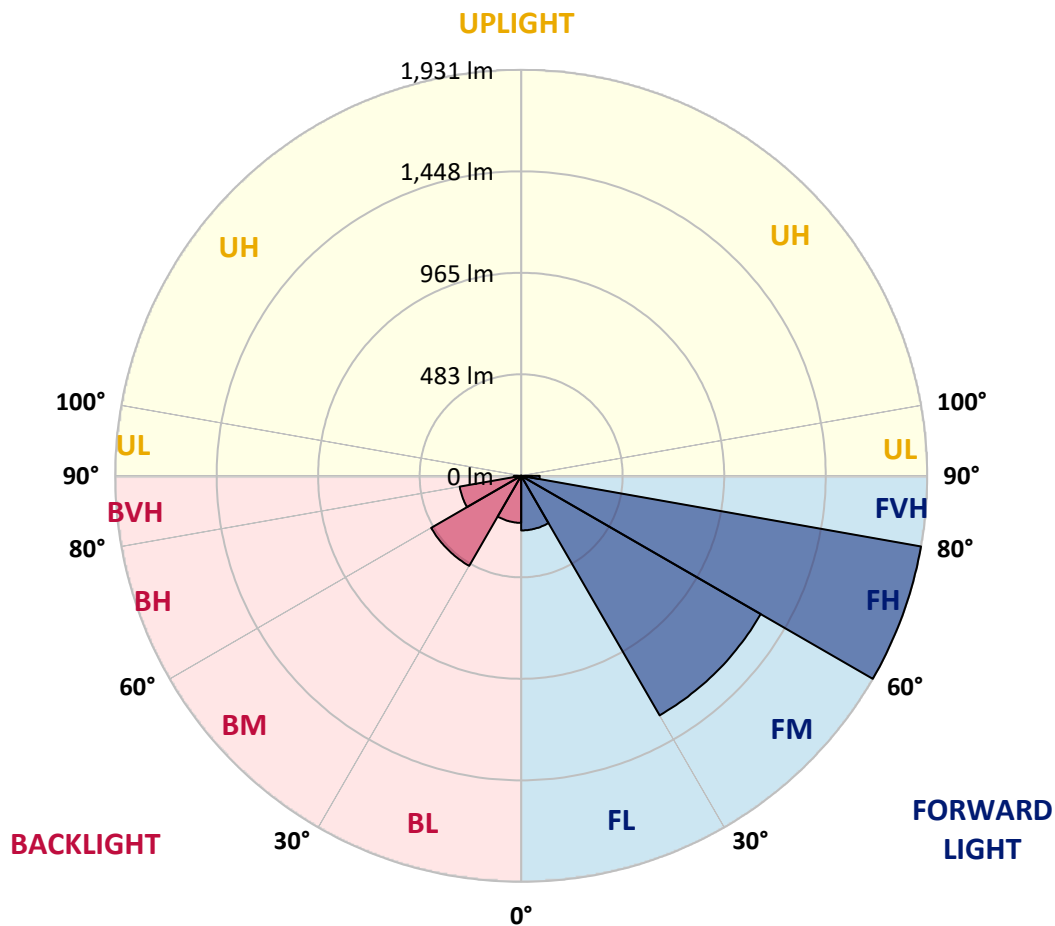
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	259.7	5.6			
FM	(30°-60°)	1315.4	28.3			
FH	(60°-80°)	1930.6	41.6			G2/5000
FVH	(80°-90°)	88.4	1.9			G1/100
BL	(0°-30°)	223.5	4.8	B1/500		
BM	(30°-60°)	494.3	10.6	B1/1000		
BH	(60°-80°)	297.2	6.4	B1/500		G1/500
BVH	(80°-90°)	34.8	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	468.5	468.5	468.5	468.5	468.5	468.5	468.5	468.5	468.5	468.5	468.5
2.5°	486.8	490.0	487.1	484.4	483.2	480.0	479.7	477.8	476.6	473.1	472.2
5°	520.8	525.0	520.1	514.7	509.8	502.0	501.0	495.4	489.0	481.7	477.5
7.5°	559.3	562.9	557.3	549.2	540.7	527.7	527.4	517.2	507.1	494.7	487.6
10°	592.8	597.7	590.1	579.1	568.3	553.6	551.9	540.2	527.4	511.3	500.5
12.5°	622.4	625.8	618.5	605.0	592.5	577.8	575.6	562.7	548.5	530.1	516.4
15°	645.9	650.3	640.5	626.0	612.8	598.4	596.4	584.7	570.5	551.2	533.6
17.5°	661.3	664.9	654.9	638.8	626.0	614.1	612.6	602.8	590.3	570.7	551.9
20°	667.1	671.1	660.5	644.1	632.4	623.1	622.4	615.3	606.7	588.9	569.8
22.5°	673.0	676.7	663.0	645.9	635.6	629.7	629.5	624.8	621.4	606.7	588.1
25°	696.7	697.7	679.4	654.7	640.0	634.8	634.6	634.4	635.8	624.3	607.9
27.5°	717.3	717.0	701.4	678.1	655.4	644.6	644.4	646.8	651.5	641.9	628.5
30°	747.4	744.7	726.1	701.9	681.1	664.4	663.0	660.8	664.4	656.9	649.0
32.5°	811.2	802.7	772.6	729.5	702.4	689.6	687.7	674.0	675.5	670.8	666.9
35°	902.7	891.5	851.4	781.9	728.8	710.7	709.7	692.3	689.4	685.2	686.7
37.5°	1011.6	997.6	950.9	857.7	774.3	735.1	733.7	718.0	706.0	701.6	710.0
40°	1120.9	1103.3	1064.7	950.2	841.3	776.0	771.4	747.6	733.9	726.6	744.2
42.5°	1227.1	1212.4	1179.4	1053.9	924.0	835.7	825.4	784.8	774.5	767.7	799.5
45°	1321.1	1307.9	1283.6	1164.7	1020.9	916.9	906.9	840.6	837.4	837.4	883.4
47.5°	1397.4	1394.5	1368.8	1277.8	1135.1	1009.4	992.0	918.1	926.7	939.9	1002.5
50°	1482.0	1474.0	1446.6	1389.1	1269.4	1115.3	1101.1	1013.3	1045.4	1081.6	1174.8
52.5°	1559.8	1564.2	1533.7	1505.0	1421.1	1233.5	1208.5	1125.6	1194.8	1254.8	1376.6
55°	1639.8	1640.1	1631.5	1627.6	1580.1	1364.1	1336.7	1260.6	1370.7	1445.1	1611.9
57.5°	1714.9	1715.4	1728.2	1762.6	1764.6	1514.8	1483.8	1426.5	1566.2	1642.0	1854.6
60°	1782.0	1785.4	1820.1	1900.9	1926.8	1687.5	1658.2	1622.5	1768.3	1844.6	2109.8
62.5°	1804.5	1817.0	1894.3	2009.0	2087.0	1899.4	1870.5	1849.2	1980.6	2051.6	2323.1
65°	1766.3	1794.9	1944.4	2098.3	2251.9	2151.1	2122.5	2099.3	2201.3	2268.1	2498.3
67.5°	1672.6	1709.6	1941.5	2192.0	2452.0	2454.0	2427.3	2372.8	2437.9	2463.5	2555.3
70°	1425.8	1481.1	1770.5	2227.0	2681.8	2868.2	2842.5	2702.1	2673.9	2549.7	2394.8
72.5°	918.6	993.0	1303.7	1939.0	2732.9	3257.9	3256.4	2999.3	2748.6	2382.3	1920.7
75°	335.2	380.7	605.7	1217.1	2294.0	3238.1	3247.6	2948.4	2509.0	1840.2	1196.5
77.5°	122.1	133.6	197.7	467.8	1410.8	2598.1	2617.9	2357.1	1785.9	923.5	474.1
80°	64.1	70.5	101.3	181.5	604.5	1543.0	1574.0	1400.8	839.4	278.2	142.1
82.5°	35.5	38.4	56.8	98.6	272.3	659.8	678.4	553.4	295.3	117.9	58.7
85°	19.1	20.3	26.7	53.8	133.1	228.7	233.9	165.4	117.7	69.2	28.4
87.5°	5.6	6.8	8.8	17.1	52.1	51.4	52.6	32.8	46.5	35.0	9.3
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°	468.5	468.5	468.5	468.5	468.5	468.5	468.5	468.5	468.5	468.5	468.5
2.5°	470.7	470.0	467.3	466.0	464.6	464.3	465.6	465.8	466.0	466.3	467.3
5°	475.1	472.6	470.2	468.7	469.2	469.5	471.9	473.6	474.8	475.8	476.3
7.5°	483.7	481.7	477.5	477.3	478.0	480.2	483.4	487.3	489.5	491.2	491.7
10°	496.4	492.7	487.8	488.5	490.0	493.2	499.8	503.0	506.7	509.8	509.1
12.5°	509.3	506.2	500.5	501.0	503.5	509.1	515.5	519.4	521.8	524.3	525.2
15°	526.2	520.6	514.5	514.5	518.9	525.0	527.9	531.1	532.6	535.3	536.3
17.5°	543.6	536.3	528.2	527.7	533.1	536.0	537.7	538.2	538.7	541.6	542.6
20°	561.0	552.9	541.4	540.4	541.6	541.1	540.9	540.4	541.1	544.8	546.3
22.5°	578.1	568.8	552.9	548.5	545.1	540.4	540.2	539.9	540.4	544.1	546.5
25°	598.1	586.9	565.6	552.4	540.9	534.5	535.3	535.5	536.0	538.9	542.9
27.5°	619.9	607.4	577.4	551.2	530.4	526.0	524.8	525.5	527.2	531.9	536.5
30°	641.7	627.0	588.1	546.3	517.2	511.1	507.1	508.9	514.2	518.9	524.0
32.5°	661.5	646.8	596.7	535.5	500.3	490.8	485.6	487.8	493.2	494.9	501.0
35°	684.8	668.1	600.4	518.4	481.9	467.3	460.4	457.2	459.9	458.2	463.6
37.5°	710.7	693.3	599.9	495.9	460.4	443.5	434.0	422.0	416.4	410.5	414.2
40°	749.1	724.1	594.0	468.7	433.8	418.3	401.2	380.9	368.2	356.7	357.4
42.5°	801.4	767.0	583.2	438.9	403.7	389.2	366.0	342.3	322.2	303.1	301.4
45°	879.5	823.0	569.8	407.1	371.1	356.9	331.7	305.1	282.3	257.9	254.9
47.5°	992.0	898.3	557.0	370.9	336.9	323.9	301.2	276.4	249.5	225.8	223.1
50°	1146.6	1006.5	545.3	335.6	303.1	293.3	275.2	250.0	222.9	203.8	202.6
52.5°	1343.3	1153.5	540.4	301.6	271.6	267.9	253.4	230.0	204.3	188.1	186.9
55°	1569.1	1329.4	540.4	269.1	243.9	245.1	235.1	213.3	191.1	176.6	175.2
57.5°	1799.6	1507.5	530.6	239.0	220.4	225.6	219.2	200.1	180.1	165.1	162.7
60°	2011.9	1656.7	491.0	211.6	199.6	207.7	203.5	187.2	162.7	150.2	148.3
62.5°	2175.1	1740.9	414.7	189.8	182.5	191.8	189.6	170.0	159.5	154.4	152.7
65°	2256.8	1727.2	317.1	170.5	168.1	182.5	177.9	177.1	168.8	162.9	161.0
67.5°	2206.7	1609.3	230.0	156.3	159.8	173.9	191.8	194.7	179.3	167.8	165.9
70°	1986.7	1395.9	171.2	142.9	149.2	174.2	218.7	203.8	175.9	162.4	160.2
72.5°	1511.4	1041.0	132.8	128.7	135.5	175.4	230.7	199.6	166.1	179.6	178.1
75°	864.3	571.5	106.7	111.3	118.4	163.9	224.6	188.9	158.5	164.9	164.9
77.5°	329.5	219.7	88.1	94.2	95.2	143.1	214.8	188.1	150.9	147.3	134.3
80°	114.2	85.9	72.9	74.9	73.6	127.2	206.0	163.7	123.5	110.6	106.9
82.5°	46.7	42.8	57.7	55.3	52.4	98.8	166.4	133.8	101.0	89.3	88.3
85°	20.3	27.2	38.2	33.5	30.3	68.5	133.3	113.3	85.4	73.6	73.4
87.5°	4.2	10.3	16.1	15.2	15.7	45.7	94.7	80.5	60.4	45.3	35.5
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)