

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: P944869

Luminaire Tested: **GALN-SB1A-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4273 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
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



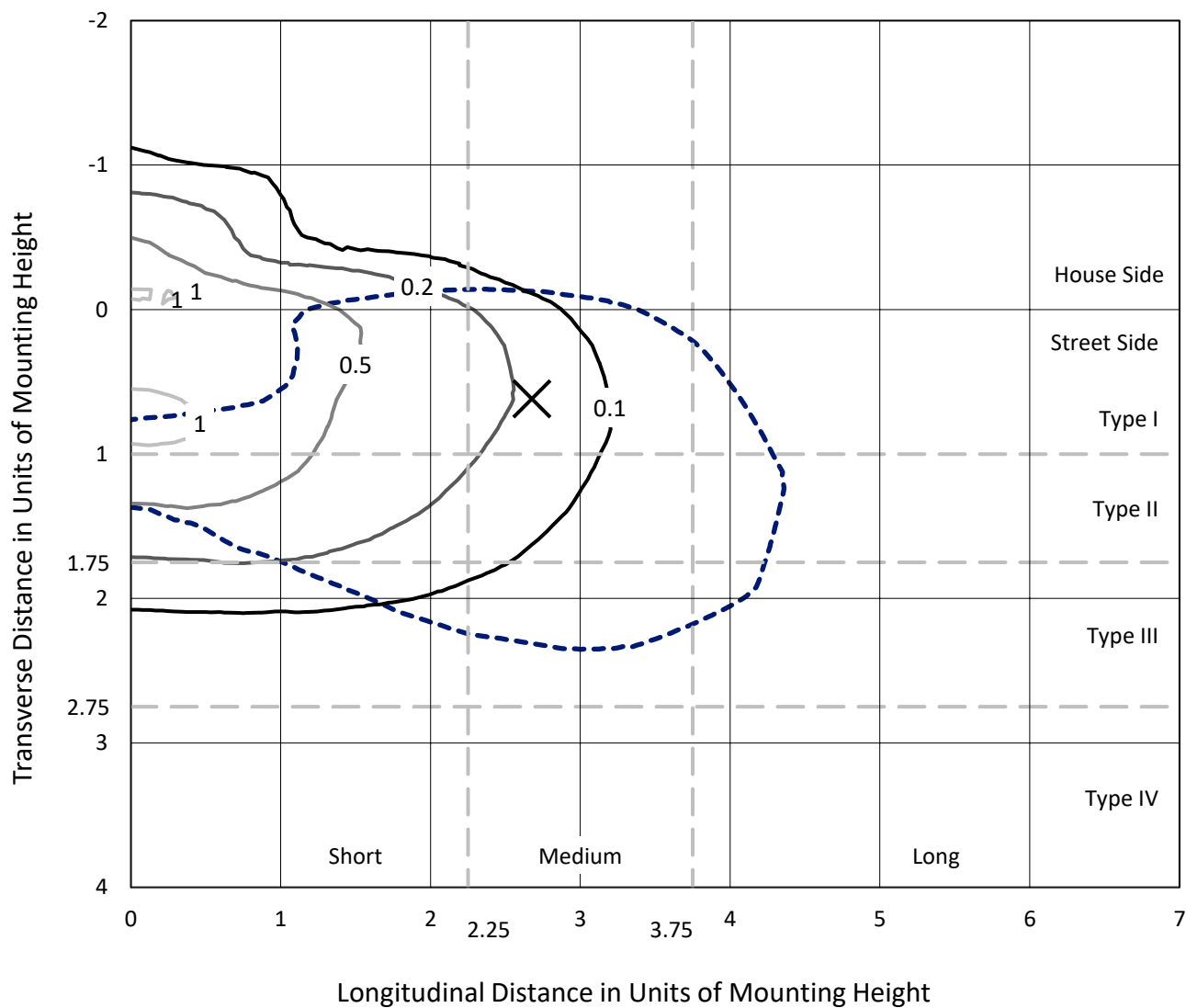
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

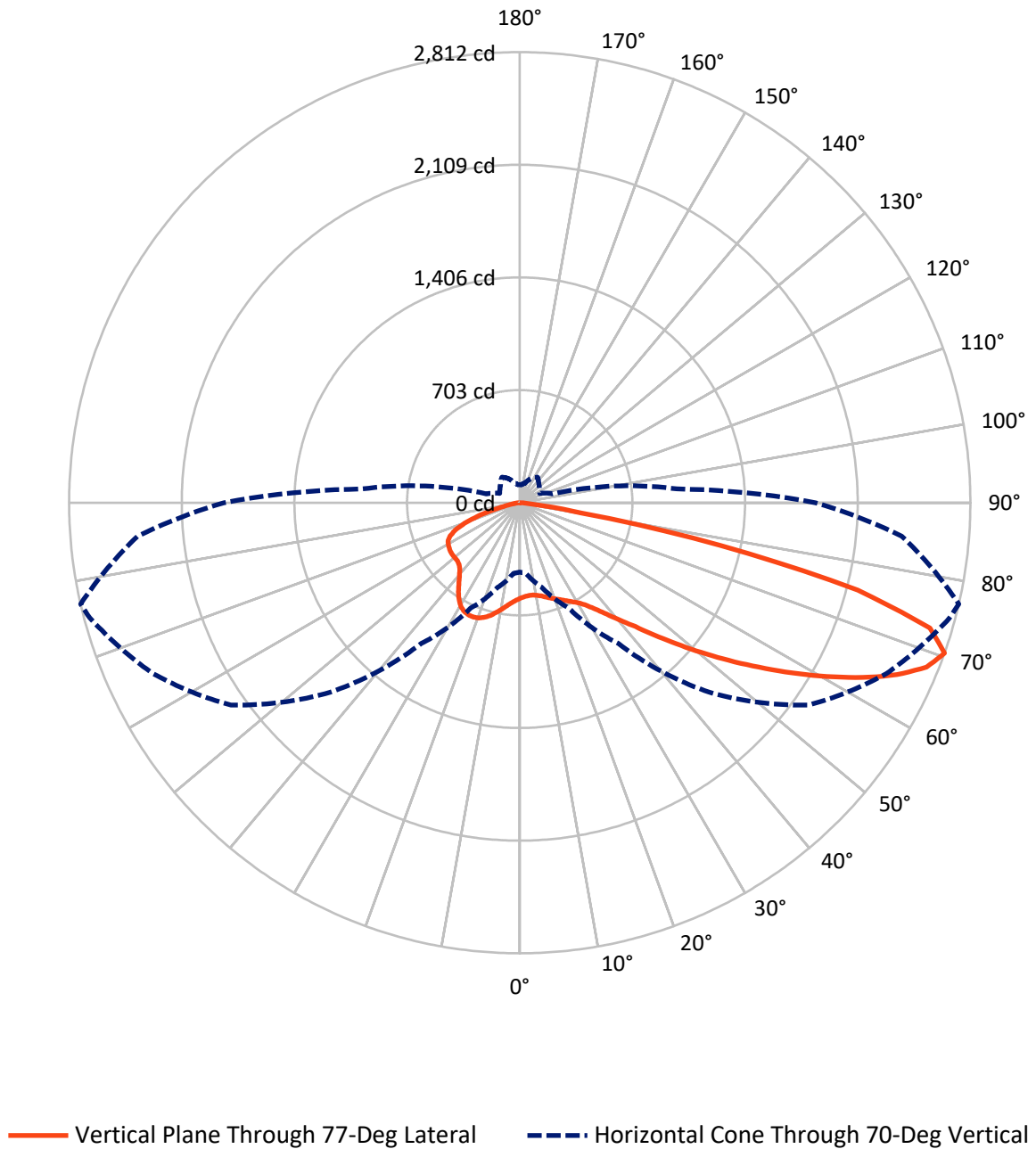


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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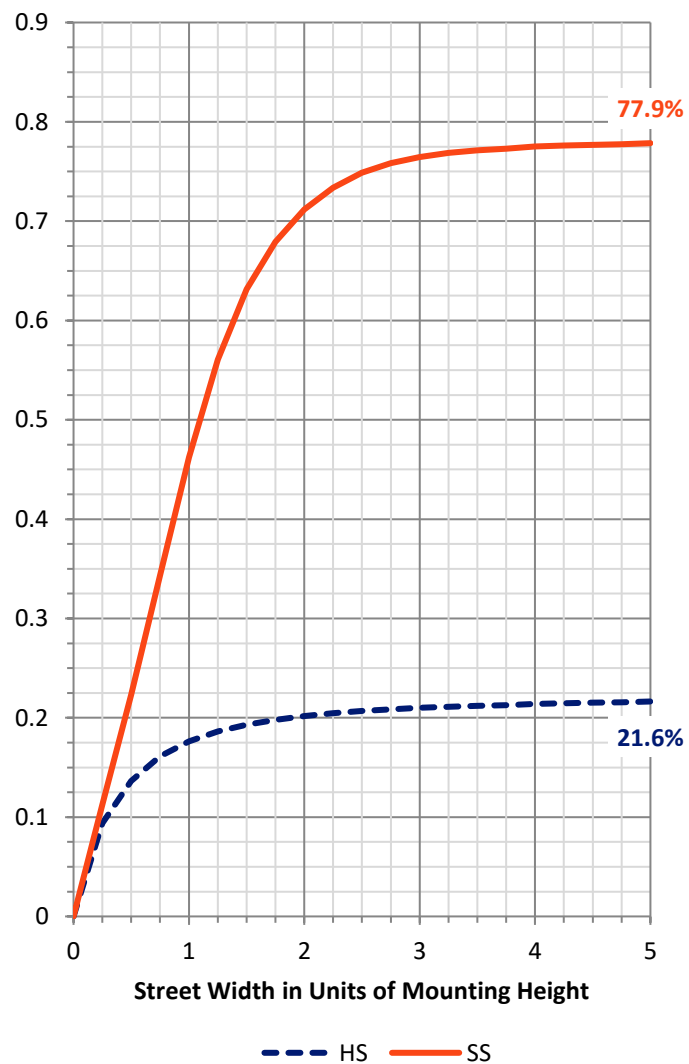
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	935.7	0.0	935.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3337.3	0.0	3337.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	4273.0	0.0	4273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	1.3
10°-20°	164.1	3.8
20°-30°	280.6	6.6
30°-40°	451.2	10.6
40°-50°	704.5	16.5
50°-60°	941.1	22.0
60°-70°	1003.0	23.5
70°-80°	617.5	14.5
80°-90°	54.1	1.3
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°	4273.0	100.0
0°-180°	4273.0	100.0

Coefficient of Utilization



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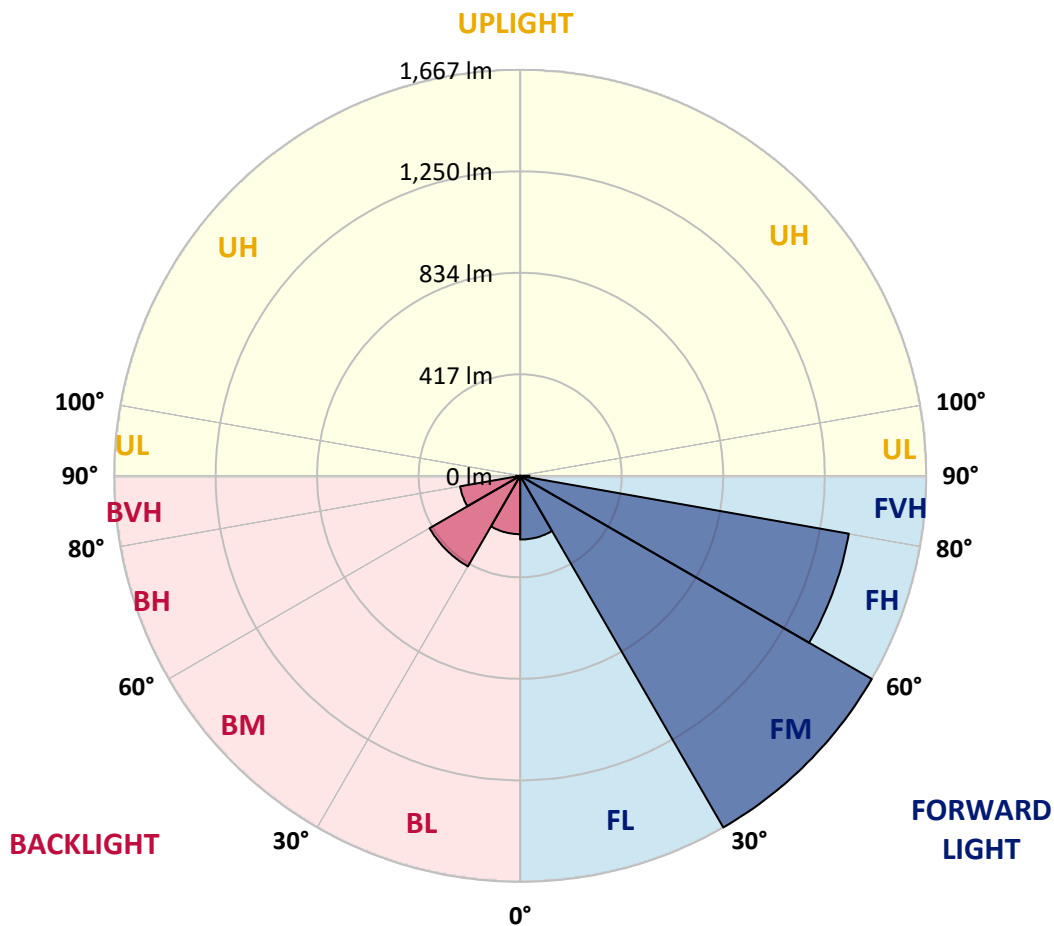
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	261.8	6.1			
FM	(30°-60°)	1667.2	39.0			
FH	(60°-80°)	1370.4	32.1			G1/1800
FVH	(80°-90°)	37.8	0.9			G1/100
BL	(0°-30°)	239.8	5.6	B1/500		
BM	(30°-60°)	429.6	10.1	B1/1000		
BH	(60°-80°)	250.1	5.9	B1/500		G1/500
BVH	(80°-90°)	16.3	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	596.1	596.1	596.1	596.1	596.1	596.1	596.1	596.1	596.1	596.1	596.1
2.5°	549.5	549.3	552.1	553.0	558.3	562.0	569.0	576.4	586.1	587.2	593.1
5°	517.8	517.8	521.1	524.6	531.3	538.8	549.5	562.4	579.1	581.7	596.3
7.5°	490.9	492.6	495.5	502.2	510.1	520.8	537.3	555.6	577.5	581.7	605.3
10°	469.2	471.2	474.7	480.1	492.0	506.8	528.3	551.9	581.2	587.8	618.4
12.5°	462.4	464.4	466.3	470.5	481.4	499.0	524.6	553.7	590.2	596.8	636.4
15°	478.2	480.6	479.0	477.9	483.6	499.6	526.3	560.0	601.4	610.8	658.5
17.5°	514.5	515.4	511.9	501.6	500.7	509.2	534.6	568.8	615.4	625.7	680.8
20°	573.1	571.6	564.4	544.0	532.4	530.7	548.9	581.9	629.8	640.8	704.9
22.5°	652.8	651.1	636.6	604.4	578.6	561.5	569.4	599.0	646.0	658.3	728.3
25°	752.2	749.7	728.5	684.8	644.7	602.5	597.4	621.5	665.9	677.3	752.8
27.5°	868.1	866.2	843.2	785.4	727.6	658.5	632.2	648.0	686.7	699.6	780.4
30°	992.9	998.6	957.9	895.7	822.6	731.6	679.1	680.6	713.6	725.2	813.9
32.5°	1139.5	1149.4	1100.3	1021.5	921.8	811.0	738.2	726.1	752.8	762.4	856.1
35°	1284.8	1296.0	1255.3	1168.2	1053.3	904.7	799.9	778.4	804.9	815.4	912.1
37.5°	1410.4	1425.3	1404.3	1328.6	1194.0	1017.6	880.4	839.9	869.0	882.1	987.4
40°	1509.6	1532.3	1530.8	1483.5	1359.9	1154.6	982.6	915.8	948.7	962.9	1078.7
42.5°	1590.1	1609.8	1626.9	1624.5	1533.0	1310.2	1102.7	1014.5	1039.5	1055.9	1181.3
45°	1645.7	1666.7	1703.5	1743.1	1699.5	1476.7	1240.4	1131.6	1154.4	1179.1	1303.6
47.5°	1695.4	1719.2	1766.9	1829.7	1840.9	1643.9	1391.2	1268.0	1288.8	1314.4	1426.4
50°	1699.7	1720.3	1794.3	1883.3	1941.3	1804.6	1553.1	1420.9	1440.4	1467.8	1557.9
52.5°	1594.0	1626.4	1755.5	1881.8	1987.5	1938.9	1714.0	1580.0	1601.9	1634.7	1694.0
55°	1237.3	1284.8	1642.0	1823.2	1971.1	2025.8	1866.9	1749.2	1777.2	1811.6	1831.0
57.5°	1065.8	1086.5	1303.4	1716.4	1896.3	2048.4	1996.0	1920.1	1965.2	2002.8	1975.9
60°	957.9	975.2	1103.4	1550.3	1797.8	2012.7	2095.8	2079.4	2157.3	2202.2	2124.1
62.5°	842.3	858.7	975.4	1294.4	1671.7	1953.4	2158.9	2226.5	2354.3	2403.3	2263.7
65°	727.6	741.7	853.5	1087.6	1511.5	1894.1	2191.5	2353.6	2536.6	2587.4	2379.7
67.5°	599.8	611.4	717.1	917.6	1316.8	1812.9	2207.7	2453.6	2695.2	2738.8	2437.0
70°	432.9	441.8	551.0	725.7	1072.3	1673.3	2201.1	2524.5	2777.5	2812.3	2393.7
72.5°	204.6	212.7	341.0	471.2	757.4	1401.5	2068.3	2468.3	2693.9	2676.6	2128.4
75°	109.2	116.2	195.9	258.5	400.0	960.7	1692.5	2126.3	2262.2	2178.1	1573.0
77.5°	74.0	79.4	121.2	155.2	182.7	456.1	1087.9	1472.1	1416.3	1277.6	787.8
80°	58.6	64.3	99.4	105.0	88.4	164.8	449.5	681.5	489.5	391.5	224.1
82.5°	45.1	51.4	83.6	76.2	48.1	67.6	130.9	215.6	125.4	95.4	54.3
85°	27.6	34.4	65.7	48.6	27.1	30.9	44.4	60.0	38.3	32.0	19.5
87.5°	14.0	19.7	33.3	17.7	12.3	7.2	11.8	11.8	10.1	8.8	5.0
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°	596.1	596.1	596.1	596.1	596.1	596.1	596.1	596.1	596.1	596.1	596.1
2.5°	598.3	602.7	610.1	617.1	622.6	627.9	633.1	636.0	636.8	640.3	642.3
5°	605.3	613.4	627.9	641.4	650.0	655.2	658.9	661.1	661.6	662.7	664.4
7.5°	618.2	631.1	651.3	664.8	671.2	670.7	669.2	663.7	661.6	659.6	660.0
10°	636.4	653.5	678.2	687.6	683.7	673.2	659.6	643.6	636.2	628.9	626.8
12.5°	658.9	680.6	704.9	704.4	685.0	658.1	626.5	602.0	586.5	575.3	572.7
15°	686.3	711.2	729.8	715.0	672.3	623.9	577.7	545.8	531.8	519.5	518.2
17.5°	714.5	741.2	749.7	711.7	640.3	573.4	521.1	495.9	482.1	475.5	477.5
20°	742.1	768.6	761.6	692.9	591.7	516.0	469.4	455.6	452.8	454.3	453.7
22.5°	771.2	794.8	764.0	656.5	529.8	457.4	431.8	432.2	438.6	443.2	444.2
25°	801.0	816.9	757.6	604.0	463.3	414.3	407.9	414.9	427.4	436.4	438.8
27.5°	829.6	836.6	743.8	539.0	406.2	383.4	384.5	398.9	417.8	430.2	433.3
30°	862.0	854.1	717.4	465.9	366.6	356.9	366.1	383.0	401.8	413.0	415.6
32.5°	898.6	869.2	675.3	398.3	338.5	335.7	350.8	361.7	370.1	373.3	375.1
35°	944.1	890.5	621.5	350.8	313.4	320.2	334.6	329.1	325.9	324.1	325.9
37.5°	1003.2	919.1	558.5	319.9	293.0	309.0	314.9	297.8	284.9	278.6	280.1
40°	1074.3	961.1	497.9	296.1	280.1	299.4	289.1	268.5	252.1	243.1	243.8
42.5°	1153.3	1005.1	446.9	278.1	272.9	291.5	270.0	245.5	219.1	216.2	219.1
45°	1236.2	1050.4	412.1	264.4	269.4	284.7	259.1	219.5	200.7	212.3	218.4
47.5°	1319.2	1092.0	391.1	254.1	267.6	277.1	249.5	205.1	191.7	208.6	216.4
50°	1411.5	1129.2	381.7	246.6	265.7	274.0	235.0	201.3	182.3	193.5	201.8
52.5°	1503.2	1158.1	374.7	239.2	262.8	271.6	228.0	197.0	170.9	171.6	176.2
55°	1594.7	1176.9	367.0	229.3	256.5	266.3	227.4	192.1	162.4	159.3	161.5
57.5°	1692.3	1187.6	357.6	218.4	245.5	253.0	226.7	188.4	159.8	154.7	155.4
60°	1791.7	1203.4	345.3	205.1	230.9	237.0	225.2	187.1	158.2	149.7	150.3
62.5°	1880.7	1208.9	330.7	192.4	212.1	221.2	221.9	186.0	154.1	139.4	139.4
65°	1939.1	1185.2	305.1	177.9	191.7	205.1	215.6	182.3	146.6	132.0	132.0
67.5°	1936.7	1117.8	265.0	159.3	172.0	187.1	206.4	175.9	137.7	122.8	123.4
70°	1846.6	984.8	214.2	137.7	150.3	167.9	194.5	166.5	126.9	112.7	114.0
72.5°	1583.8	770.8	155.6	112.3	125.2	147.9	179.2	155.2	116.0	103.7	103.1
75°	1131.4	487.8	105.5	86.2	97.4	125.4	160.2	141.8	105.9	104.2	98.3
77.5°	578.0	233.1	69.8	63.0	67.8	98.9	134.6	126.7	107.5	86.0	76.6
80°	188.0	86.0	44.0	42.9	45.1	65.9	104.2	103.9	81.4	58.4	51.6
82.5°	60.0	37.0	28.7	27.6	26.5	41.4	72.7	82.3	54.9	37.0	36.8
85°	23.9	22.1	16.9	15.5	11.2	19.5	38.1	54.7	40.9	26.7	27.4
87.5°	8.8	8.8	4.6	3.3	2.4	6.6	10.3	16.4	23.4	13.8	13.6
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)