

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: P945221

Luminaire Tested: **GALN-SB1B-727-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4424 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

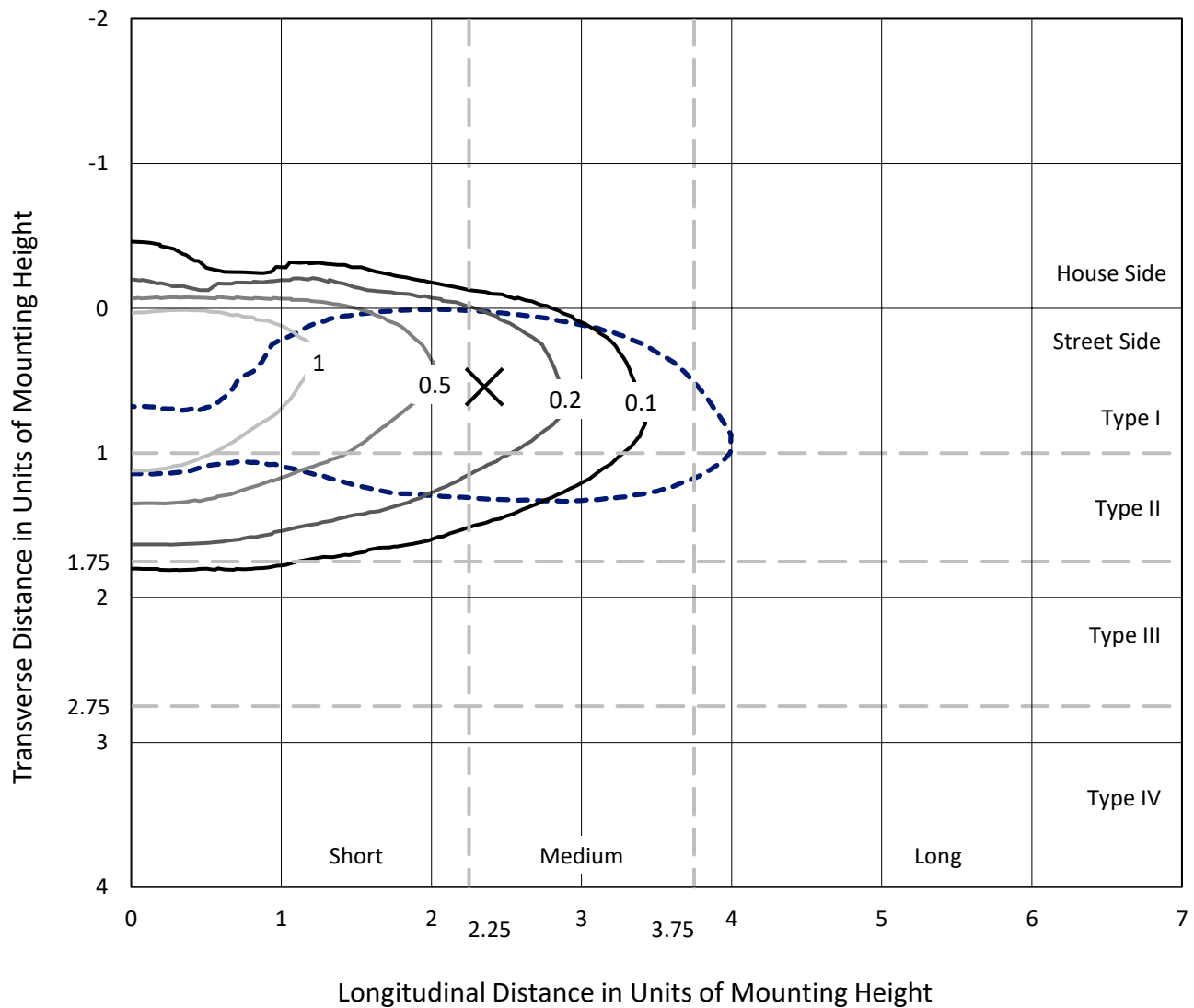
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SB1B-727-U-T2R-HSS

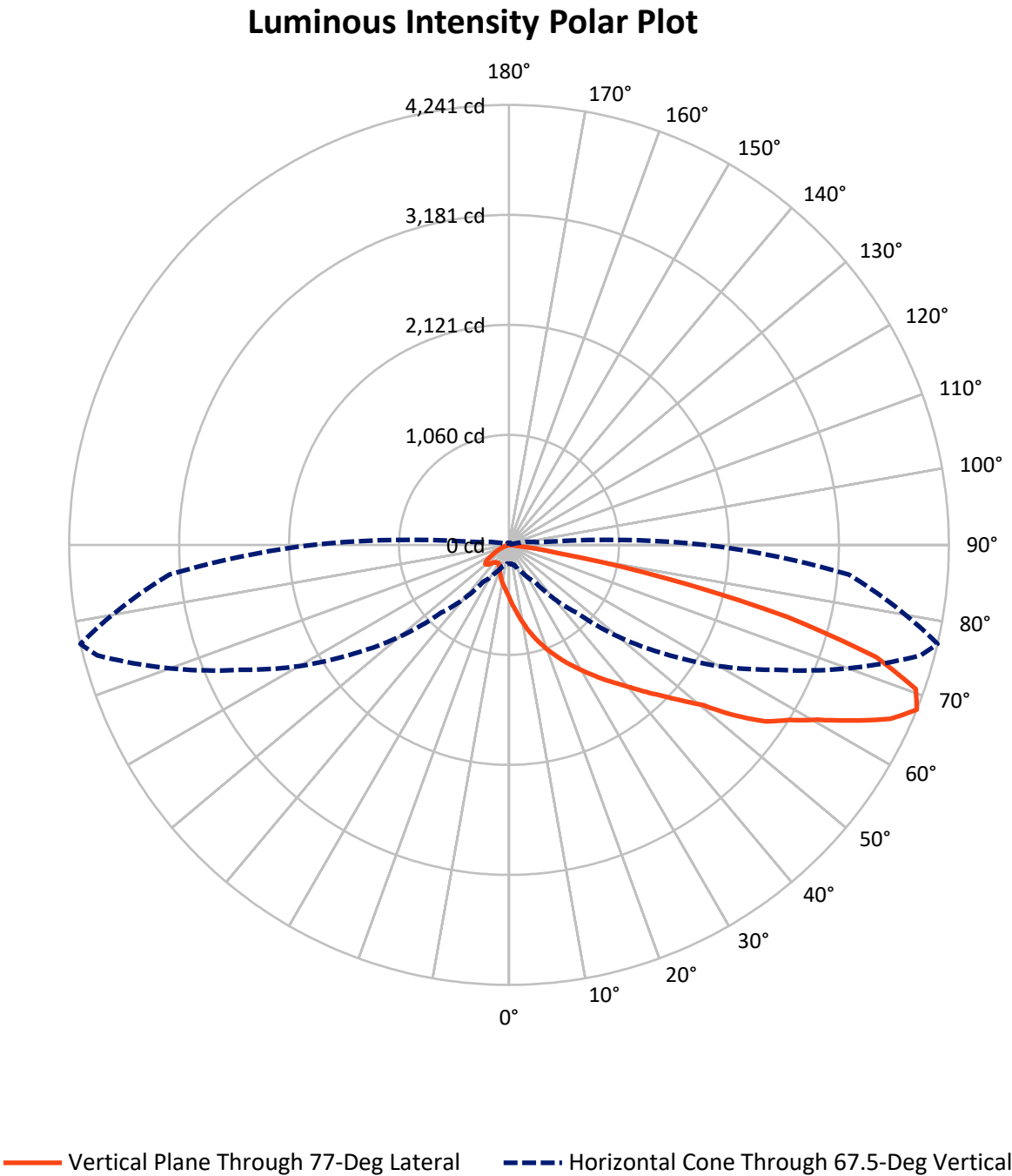
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Medium - N/A

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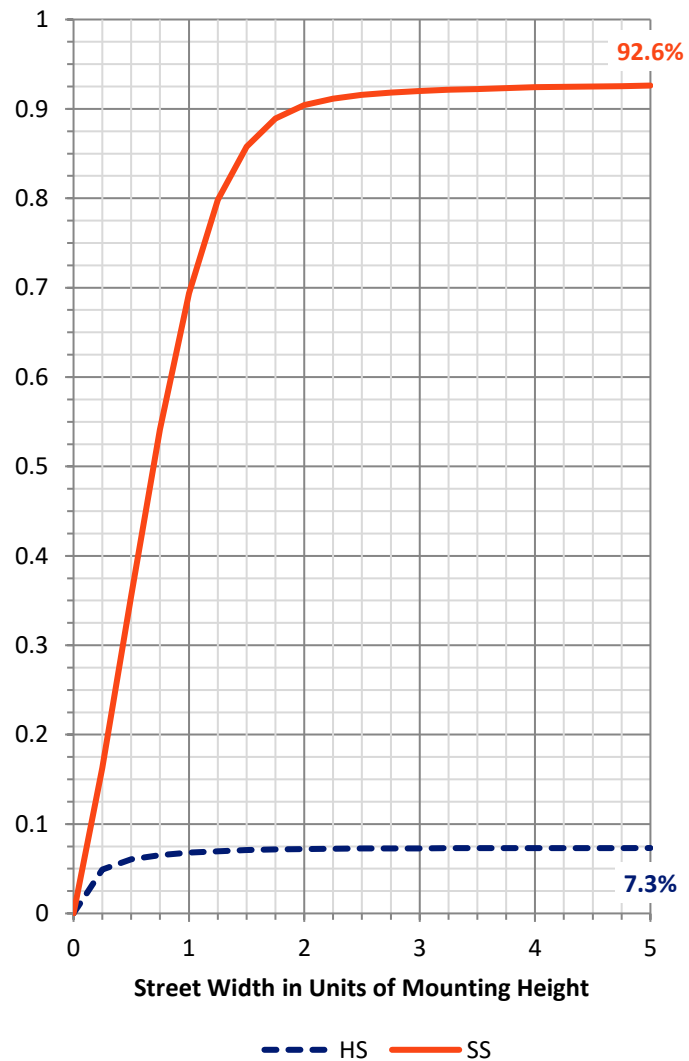
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	325.5	0.0	325.5
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	4098.5	0.0	4098.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	4424.0	0.0	4424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	1.2
10°-20°	182.3	4.1
20°-30°	351.9	8.0
30°-40°	610.9	13.8
40°-50°	886.9	20.0
50°-60°	1018.5	23.0
60°-70°	884.3	20.0
70°-80°	416.5	9.4
80°-90°	20.6	0.5
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°	4424.0	100.0
0°-180°	4424.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945221

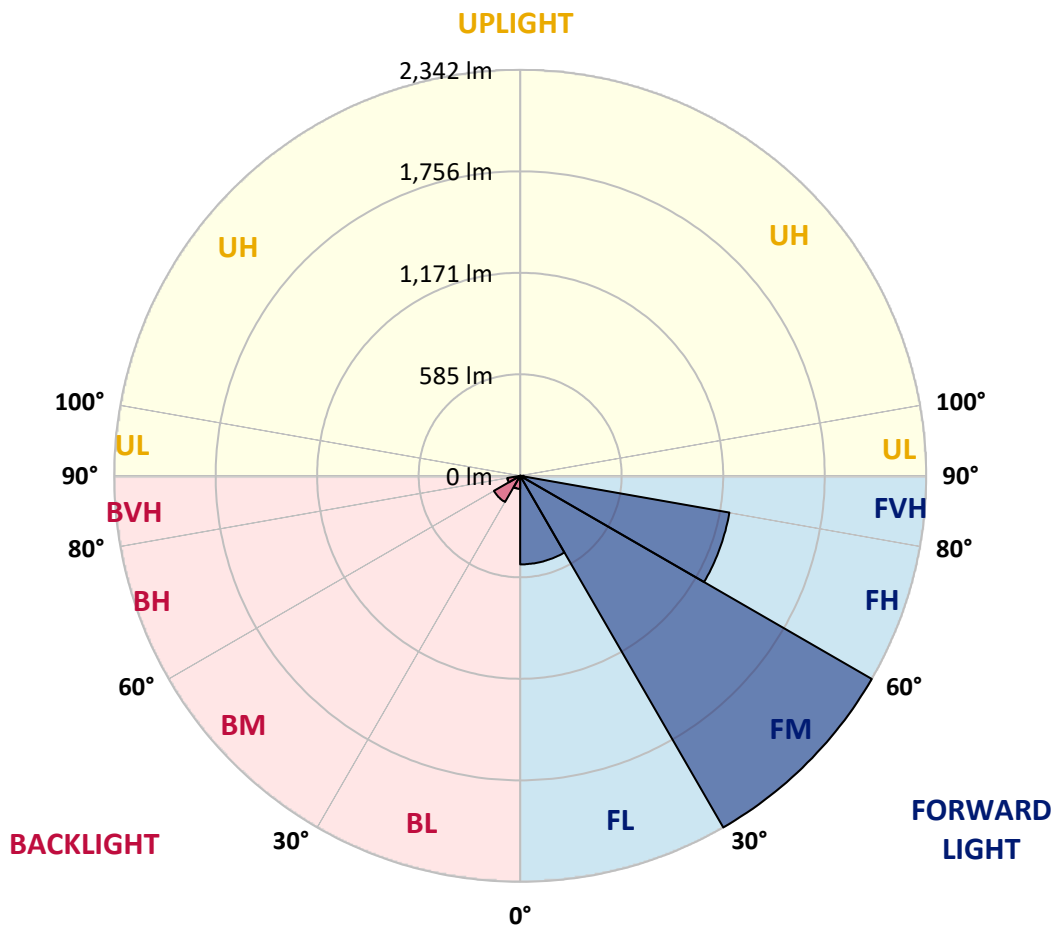
CATALOG NUMBER: GALN-SB1B-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	510.9	11.5			
FM	(30°-60°)	2341.9	52.9			
FH	(60°-80°)	1225.4	27.7			G1/1800
FVH	(80°-90°)	20.2	0.5			G1/100
BL	(0°-30°)	75.4	1.7	B0/110		
BM	(30°-60°)	174.4	3.9	B0/220		
BH	(60°-80°)	75.4	1.7	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



REPORT NUMBER: P945221

CATALOG NUMBER: GALN-SB1B-727-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	510.2	510.2	510.2	510.2	510.2	510.2	510.2	510.2	510.2	510.2	510.2
2.5°	706.3	710.7	704.4	692.3	674.2	662.3	633.5	606.3	576.1	566.5	536.3
5°	861.0	864.8	857.7	844.5	820.3	797.2	759.3	702.5	643.4	624.4	570.9
7.5°	975.5	977.7	975.0	962.9	939.8	913.7	871.4	804.1	716.5	695.6	613.4
10°	1057.9	1065.1	1064.3	1059.6	1044.2	1023.1	978.0	901.4	798.3	771.4	661.5
12.5°	1112.6	1120.6	1125.2	1135.7	1134.9	1121.4	1081.8	1000.8	879.9	848.3	715.6
15°	1128.5	1137.1	1154.9	1179.1	1200.5	1207.4	1179.6	1098.3	969.8	929.4	771.1
17.5°	1119.5	1132.7	1154.1	1192.3	1239.3	1270.3	1267.3	1192.6	1051.3	1005.2	825.5
20°	1139.5	1152.2	1168.9	1201.1	1255.7	1312.1	1334.6	1282.7	1132.4	1084.0	882.7
22.5°	1250.5	1248.3	1250.0	1255.2	1287.9	1343.6	1390.1	1364.5	1212.6	1163.2	943.1
25°	1426.3	1416.4	1399.7	1371.4	1363.2	1390.1	1438.4	1437.1	1297.2	1244.2	1004.9
27.5°	1628.0	1626.3	1587.0	1518.9	1480.5	1470.0	1493.1	1507.7	1381.0	1324.4	1067.0
30°	1821.1	1825.5	1772.5	1696.7	1626.1	1585.1	1564.2	1574.7	1466.2	1411.0	1131.0
32.5°	1989.2	1993.9	1936.2	1847.5	1760.1	1710.7	1666.7	1640.9	1559.0	1498.9	1201.3
35°	2131.3	2135.9	2069.7	1971.7	1878.5	1833.7	1784.0	1713.4	1652.4	1596.4	1279.6
37.5°	2258.2	2256.8	2168.1	2069.2	1977.7	1942.3	1916.2	1802.7	1748.6	1694.5	1366.4
40°	2333.2	2339.0	2263.1	2154.1	2065.3	2039.5	2037.9	1913.4	1859.6	1807.1	1461.5
42.5°	2355.2	2365.3	2310.4	2220.8	2140.3	2112.3	2155.4	2033.2	1988.7	1937.6	1568.9
45°	2315.6	2325.5	2300.5	2238.4	2191.4	2173.3	2256.5	2157.4	2126.6	2076.0	1690.1
47.5°	2200.2	2212.6	2218.6	2205.4	2204.9	2223.3	2347.2	2288.1	2290.3	2238.7	1830.4
50°	1976.9	1997.8	2053.2	2099.9	2172.2	2262.9	2435.4	2429.9	2474.9	2430.4	2013.4
52.5°	1570.8	1600.5	1791.7	1919.5	2081.8	2255.4	2532.4	2657.4	2798.8	2733.7	2271.4
55°	1262.3	1262.3	1417.8	1656.8	1905.4	2206.5	2574.7	2805.2	3019.4	3004.0	2453.0
57.5°	1029.1	1041.5	1140.6	1351.9	1650.2	2090.1	2600.8	2898.0	3197.2	3185.9	2630.4
60°	635.1	661.8	849.2	1057.7	1359.9	1882.6	2584.3	2992.0	3412.8	3421.9	2844.2
62.5°	357.7	367.6	451.1	761.0	1057.4	1603.8	2458.2	3044.4	3688.6	3727.1	3064.5
65°	247.0	251.9	284.1	473.6	732.9	1276.9	2211.8	3011.7	3965.0	4042.8	3251.3
67.5°	179.4	181.9	201.9	289.3	434.9	925.8	1825.5	2846.9	4111.4	4241.4	3287.0
70°	137.9	139.6	154.1	190.1	256.9	571.4	1325.8	2519.2	4005.4	4160.6	3104.0
72.5°	112.1	113.7	125.0	140.7	170.3	337.9	803.6	2045.8	3537.3	3704.9	2642.5
75°	94.5	96.7	106.9	117.0	133.5	217.0	376.9	1424.7	2660.1	2770.0	1837.6
77.5°	52.5	48.4	86.8	97.0	112.6	137.4	176.4	838.4	1489.8	1520.3	815.4
80°	32.7	33.8	69.0	78.0	86.5	69.2	80.8	322.8	516.5	490.6	158.0
82.5°	1.9	4.4	53.0	56.3	59.3	29.7	30.5	109.6	124.4	114.3	28.0
85°	0.0	0.0	24.2	19.5	20.6	8.5	8.8	25.5	16.8	18.1	5.5
87.5°	0.0	0.0	0.0	0.5	0.0	0.8	1.6	2.2	0.8	1.1	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945221

CATALOG NUMBER: GALN-SB1B-727-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	510.2	510.2	510.2	510.2	510.2	510.2	510.2	510.2	510.2	510.2	510.2
2.5°	517.0	497.8	458.8	420.6	389.6	360.7	340.1	320.6	310.7	310.2	309.6
5°	532.7	492.3	414.3	345.3	289.8	245.3	216.5	195.9	185.4	181.9	181.3
7.5°	554.7	493.9	375.3	279.4	214.0	175.8	159.3	152.7	150.5	148.1	147.5
10°	582.4	497.8	340.4	225.0	168.7	149.4	142.9	140.1	138.5	136.8	136.3
12.5°	613.4	501.4	305.8	186.8	148.3	138.5	133.8	130.5	128.3	126.4	125.8
15°	643.7	503.6	269.8	160.2	137.9	129.9	125.0	121.4	118.4	116.2	115.9
17.5°	673.6	506.6	236.0	144.2	129.4	121.4	116.5	112.1	109.6	107.1	106.9
20°	706.9	506.0	204.1	133.0	120.9	112.9	107.7	103.6	101.1	98.3	98.1
22.5°	737.6	503.3	176.1	123.3	112.1	104.4	98.6	94.5	92.0	89.8	89.6
25°	773.1	501.1	152.7	114.6	103.8	96.2	89.8	86.0	83.2	81.3	81.0
27.5°	807.1	497.8	135.7	106.6	95.9	88.5	82.4	78.0	75.5	74.2	74.2
30°	840.6	497.0	129.4	98.9	88.7	81.3	75.3	71.2	69.2	68.7	68.4
32.5°	881.0	499.2	132.1	96.2	82.1	74.7	69.0	65.9	64.0	64.0	64.0
35°	924.2	498.6	136.3	98.6	77.7	68.1	63.7	61.8	59.9	59.9	59.9
37.5°	978.3	499.4	139.6	102.7	76.1	62.6	60.2	57.7	56.6	56.6	56.6
40°	1059.0	526.6	137.9	106.3	75.5	58.8	53.8	53.0	52.2	52.2	52.2
42.5°	1157.9	585.7	140.1	106.6	75.3	56.0	49.4	51.1	49.2	48.9	48.6
45°	1266.2	650.3	154.1	100.8	75.0	54.7	47.3	49.2	46.2	46.2	46.2
47.5°	1373.6	714.3	168.4	92.6	74.2	54.4	45.3	44.2	43.4	43.7	43.7
50°	1521.7	766.5	173.9	81.3	72.3	53.8	41.8	42.0	41.5	42.0	42.0
52.5°	1682.9	777.5	167.3	68.7	66.8	52.2	39.3	40.4	40.1	40.7	40.7
55°	1783.5	765.6	138.2	57.1	58.2	45.6	36.8	39.0	39.0	39.0	39.0
57.5°	1887.3	715.4	98.1	46.4	48.4	37.4	34.6	37.6	37.4	37.1	37.1
60°	1962.0	634.1	64.6	38.2	38.5	30.8	32.1	35.4	35.2	33.8	33.8
62.5°	2017.8	544.2	41.5	32.4	29.4	27.7	29.4	32.1	31.0	28.0	27.5
65°	2011.5	419.8	31.9	27.7	24.2	24.2	25.5	28.0	24.7	19.8	19.2
67.5°	1894.2	284.1	26.4	23.4	20.3	20.1	21.2	23.4	21.2	16.8	16.2
70°	1684.6	185.7	21.2	18.1	16.2	14.8	17.0	20.1	17.9	13.5	12.9
72.5°	1367.3	113.2	15.9	13.2	11.8	9.6	13.5	16.5	14.3	9.9	9.3
75°	884.6	57.7	11.0	8.5	6.3	5.8	9.9	12.4	9.9	6.0	5.2
77.5°	338.5	24.2	6.0	3.8	3.3	2.7	5.5	7.4	4.1	1.4	1.1
80°	65.1	10.2	3.0	1.9	1.6	1.1	0.8	0.5	0.0	0.0	0.0
82.5°	11.3	3.3	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)