

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: P945570

Luminaire Tested: **GALN-SB1C-727-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5632 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 54.4
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

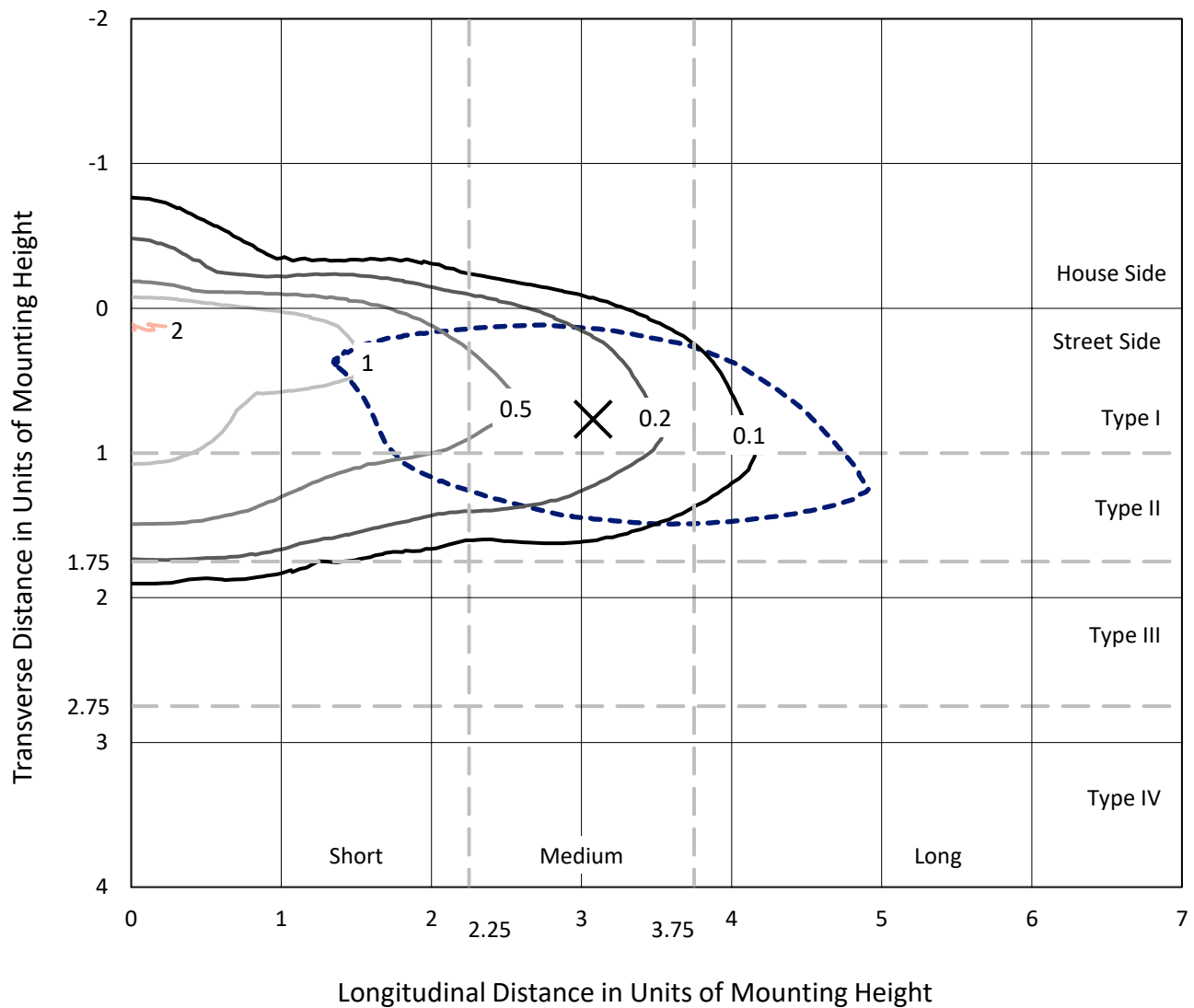


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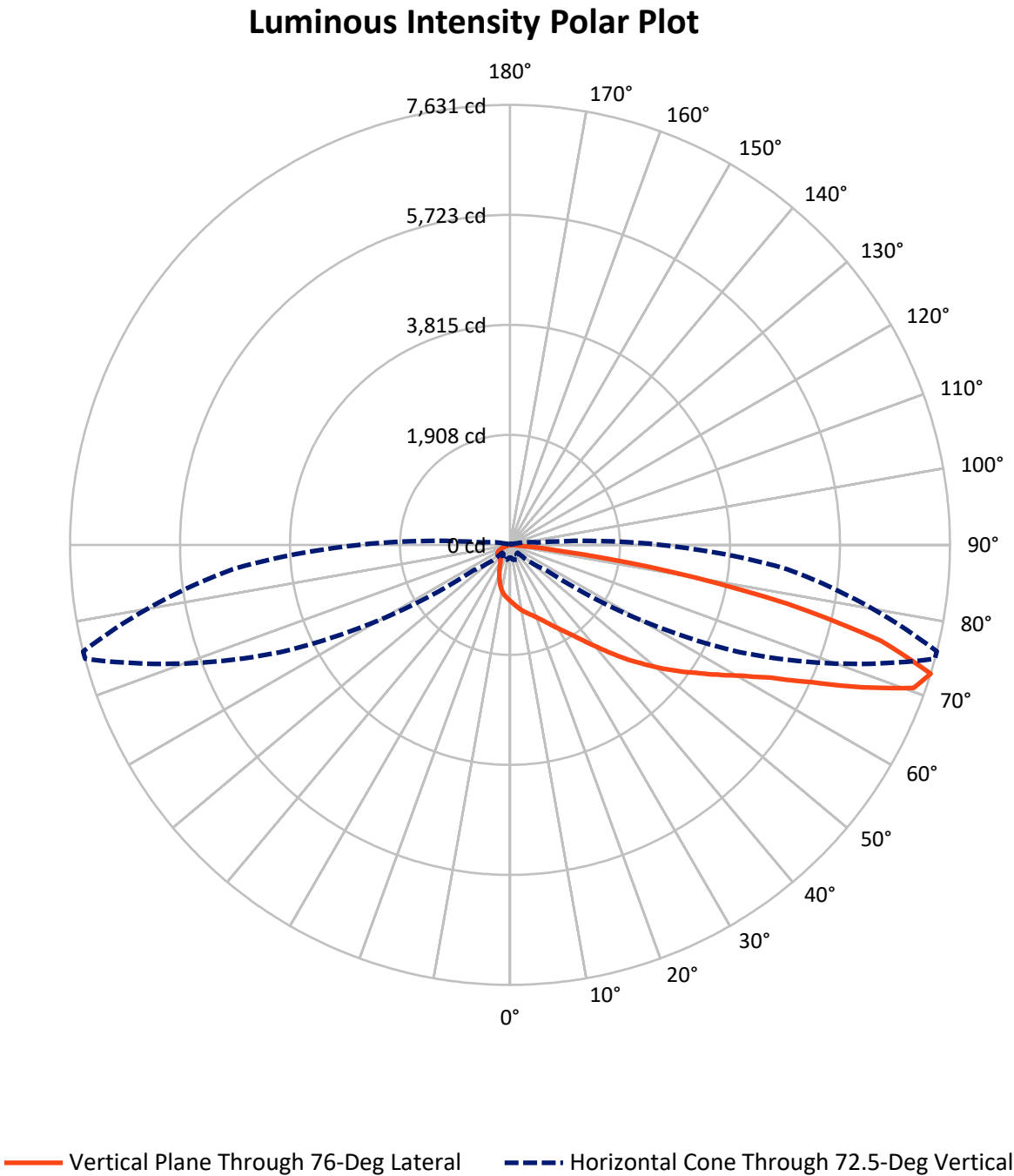
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type II - Medium - N/A

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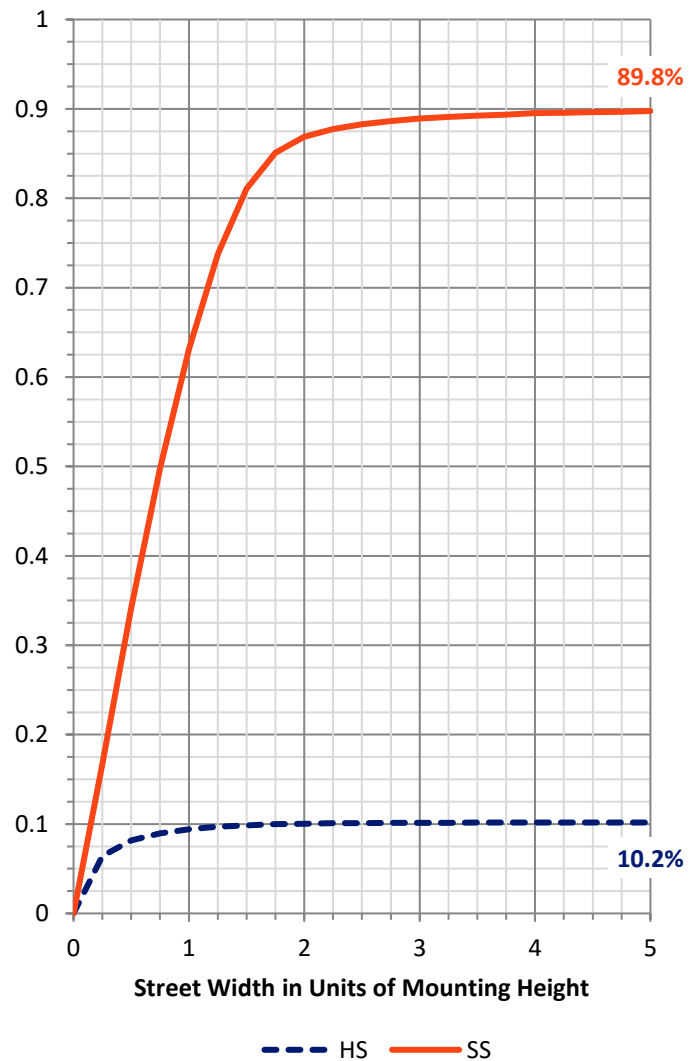
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	576.4	0.0	576.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	5055.6	0.0	5055.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	5632.0	0.0	5632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	1.6
10°-20°	237.3	4.2
20°-30°	375.6	6.7
30°-40°	581.2	10.3
40°-50°	882.7	15.7
50°-60°	1216.9	21.6
60°-70°	1285.6	22.8
70°-80°	882.0	15.7
80°-90°	82.1	1.5
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°	5632.0	100.0
0°-180°	5632.0	100.0

Coefficient of Utilization



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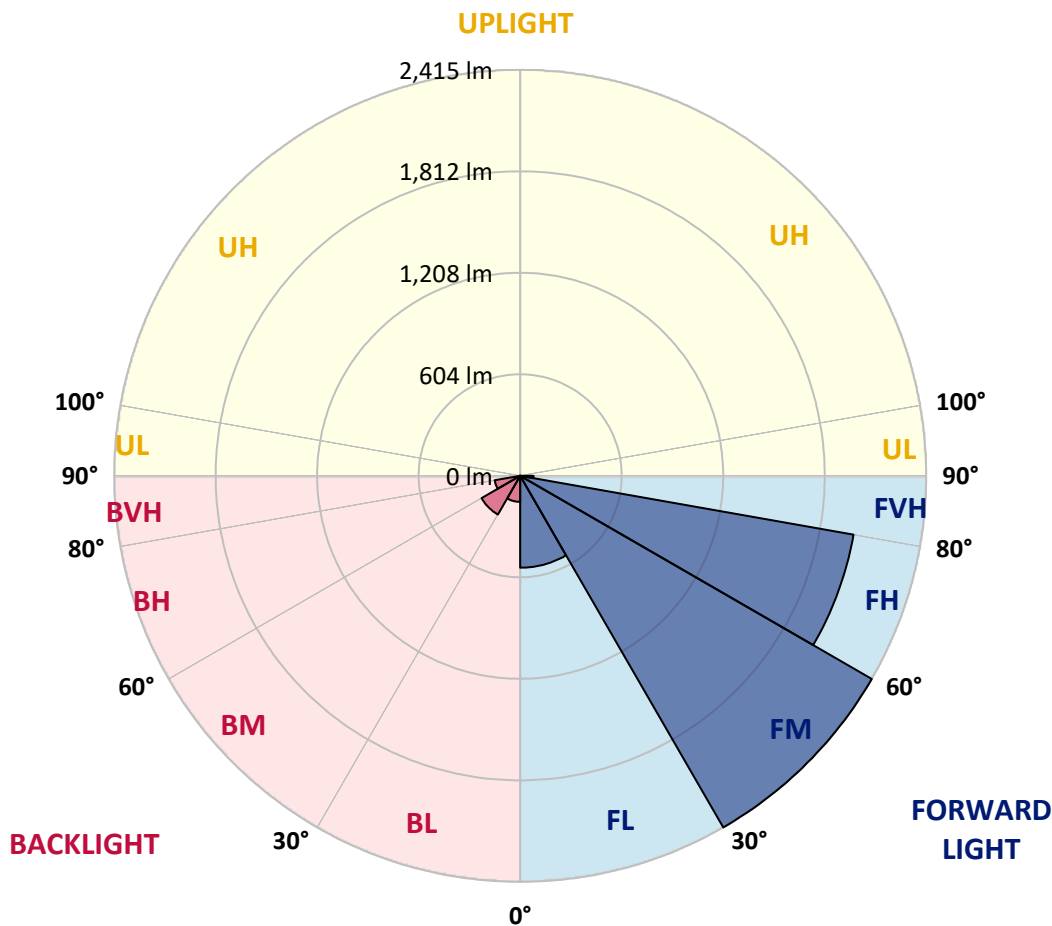
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	546.6	9.7			
FM	(30°-60°)	2415.4	42.9			
FH	(60°-80°)	2013.7	35.8			G2/5000
FVH	(80°-90°)	79.9	1.4			G1/100
BL	(0°-30°)	154.9	2.8	B1/500		
BM	(30°-60°)	265.4	4.7	B1/1000		
BH	(60°-80°)	153.9	2.7	B1/500		G1/500
BVH	(80°-90°)	2.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	973.3	973.3	973.3	973.3	973.3	973.3	973.3	973.3	973.3	973.3	973.3
2.5°	1131.4	1116.5	1119.4	1104.4	1097.5	1080.7	1063.1	1040.1	1014.5	1014.5	989.7
5°	1250.5	1241.1	1241.1	1223.5	1210.0	1183.7	1152.3	1111.7	1063.5	1058.7	1011.6
7.5°	1323.6	1317.8	1321.4	1311.2	1300.2	1272.8	1235.6	1182.6	1114.3	1108.4	1037.6
10°	1337.9	1337.5	1347.7	1350.7	1358.0	1344.1	1310.8	1249.8	1164.3	1155.9	1059.8
12.5°	1282.7	1275.8	1301.0	1330.6	1372.2	1390.8	1373.7	1311.2	1210.0	1198.3	1080.7
15°	1192.1	1193.6	1217.7	1263.3	1332.8	1399.2	1421.5	1371.1	1256.4	1242.5	1100.4
17.5°	1140.2	1134.7	1155.6	1196.5	1273.2	1367.1	1443.8	1427.0	1305.7	1290.0	1120.5
20°	1134.0	1133.6	1138.4	1157.0	1215.5	1321.1	1441.3	1481.4	1363.8	1345.5	1149.4
22.5°	1177.1	1176.4	1172.4	1168.7	1184.8	1276.1	1430.3	1533.3	1433.2	1413.5	1190.3
25°	1243.2	1242.1	1235.9	1213.7	1197.9	1252.0	1420.1	1581.5	1515.4	1493.5	1240.0
27.5°	1324.0	1323.3	1311.9	1278.3	1237.8	1254.2	1415.0	1631.2	1610.4	1588.9	1297.3
30°	1423.0	1421.5	1398.1	1350.7	1297.7	1288.9	1421.9	1687.1	1709.4	1693.0	1363.4
32.5°	1547.2	1543.2	1512.5	1440.9	1366.7	1335.3	1435.0	1744.5	1826.7	1811.3	1451.9
35°	1643.3	1637.1	1619.2	1556.0	1446.7	1392.3	1465.7	1812.4	1967.7	1954.2	1564.7
37.5°	1725.9	1719.6	1705.0	1653.2	1561.5	1465.0	1515.1	1903.0	2134.3	2127.7	1702.5
40°	1815.0	1804.8	1797.8	1742.3	1659.4	1569.9	1585.6	2009.0	2326.1	2326.8	1868.0
42.5°	1883.7	1879.7	1880.4	1837.6	1754.0	1694.1	1679.1	2128.5	2555.9	2562.8	2067.1
45°	1942.5	1939.2	1952.7	1922.8	1849.3	1775.5	1788.7	2263.6	2807.3	2821.5	2289.9
47.5°	1987.8	1991.5	2010.8	1991.5	1948.3	1832.9	1885.9	2409.4	3071.4	3073.2	2520.1
50°	2033.1	2034.6	2066.7	2057.2	2039.7	1905.6	1975.4	2572.3	3349.8	3353.1	2735.3
52.5°	2047.4	2045.2	2096.3	2119.7	2120.4	1995.5	2091.2	2749.9	3622.7	3633.3	2956.7
55°	1974.3	1980.5	2063.1	2158.0	2195.7	2119.7	2247.6	2974.6	3913.5	3917.9	3175.9
57.5°	1617.0	1651.3	1834.0	2054.3	2244.3	2297.6	2472.2	3237.3	4249.2	4245.2	3398.0
60°	981.3	1022.2	1240.7	1722.9	2085.7	2476.3	2803.2	3644.2	4616.0	4604.7	3622.7
62.5°	548.7	561.2	630.9	1031.3	1586.3	2362.6	3126.6	4167.0	5108.5	5070.2	3843.7
65°	404.4	408.4	424.9	505.3	779.6	1817.2	3055.7	4792.1	5800.5	5732.1	4108.6
67.5°	351.5	355.5	371.5	382.5	348.2	954.6	2517.5	5138.8	6679.1	6589.6	4467.0
70°	295.9	298.1	324.1	331.4	249.2	363.1	1617.3	5031.8	7492.3	7428.4	4851.7
72.5°	220.7	229.4	267.1	284.6	199.8	192.9	761.4	4399.4	7630.1	7630.8	4825.7
75°	149.8	157.8	200.9	234.2	154.2	135.2	307.2	3285.1	6644.0	6644.0	4230.2
77.5°	102.3	108.9	139.9	183.8	116.9	92.8	159.3	2085.0	4766.6	4934.2	3015.1
80°	45.3	49.3	90.2	133.3	88.8	59.9	90.2	1141.7	2882.5	2847.1	1181.9
82.5°	22.3	25.6	57.7	83.3	57.4	36.9	47.5	542.9	934.2	887.8	184.5
85°	4.4	5.8	31.1	35.4	26.7	16.4	17.9	167.0	112.5	128.6	39.1
87.5°	0.0	0.0	9.5	6.6	2.9	3.7	3.7	15.0	8.8	10.2	10.2
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°	973.3	973.3	973.3	973.3	973.3	973.3	973.3	973.3	973.3	973.3	973.3
2.5°	976.5	963.0	933.4	904.2	874.3	846.9	827.9	808.9	797.2	792.1	792.8
5°	984.2	956.8	894.7	829.7	765.4	702.5	655.4	611.2	597.3	574.3	575.8
7.5°	996.3	951.7	853.8	744.2	639.7	547.6	481.1	428.2	407.0	386.5	386.2
10°	1004.3	942.2	799.7	653.2	511.8	408.4	344.9	306.5	292.6	280.2	279.8
12.5°	1007.6	924.7	737.6	551.3	398.2	311.3	273.3	255.4	250.6	246.2	246.2
15°	1010.5	907.5	668.2	453.0	314.6	260.5	245.5	239.7	236.4	233.5	233.5
17.5°	1013.1	885.6	588.9	368.3	265.6	240.0	232.7	226.5	224.0	220.7	220.7
20°	1021.8	864.4	518.0	304.0	238.9	225.4	217.4	210.8	208.6	206.4	206.8
22.5°	1038.3	847.2	449.4	260.5	222.9	210.4	200.2	192.9	191.4	190.0	188.9
25°	1058.0	826.0	384.7	232.4	207.1	193.3	181.9	175.7	174.3	174.6	173.9
27.5°	1083.2	802.6	329.2	214.5	193.3	177.2	164.4	159.7	160.4	161.8	161.1
30°	1111.0	781.1	285.7	202.0	180.8	162.9	150.2	146.9	149.4	151.6	150.9
32.5°	1152.3	762.1	255.4	192.2	169.9	151.2	141.0	137.0	139.9	142.8	142.1
35°	1208.5	752.6	238.2	183.8	160.4	142.1	131.9	129.0	131.9	132.6	132.3
37.5°	1277.6	751.9	230.9	176.8	151.6	134.4	123.1	122.0	124.2	124.6	123.8
40°	1366.7	756.6	225.4	171.7	142.5	125.7	115.1	114.0	114.7	117.3	116.9
42.5°	1479.6	776.3	217.7	165.1	132.6	116.9	108.5	105.9	105.6	108.5	108.1
45°	1621.4	819.8	207.5	154.5	123.8	109.6	101.2	98.3	97.2	97.9	99.0
47.5°	1775.9	873.2	197.3	144.7	117.6	103.8	95.4	91.7	89.9	89.9	89.9
50°	1925.7	933.4	190.3	134.4	113.3	98.3	89.1	85.5	82.6	81.8	81.5
52.5°	2074.0	992.6	184.9	124.2	108.1	91.3	83.3	79.3	76.0	74.5	73.8
55°	2209.2	1048.9	175.4	114.4	101.6	84.0	77.5	73.4	69.4	66.9	65.8
57.5°	2338.9	1095.6	157.8	104.1	91.3	77.1	71.2	66.9	62.1	58.8	57.4
60°	2456.9	1119.8	135.9	93.2	81.1	69.8	64.3	60.3	54.1	48.6	47.1
62.5°	2546.8	1110.3	112.2	80.7	70.5	63.2	56.3	52.2	44.9	38.4	35.8
65°	2638.8	1058.4	89.5	67.6	61.7	54.4	47.1	43.1	34.7	27.8	25.9
67.5°	2758.3	947.7	70.5	56.3	53.3	43.1	36.9	34.3	28.5	21.9	20.5
70°	2835.0	736.2	54.8	45.7	43.8	31.4	28.5	28.1	22.7	16.8	15.0
72.5°	2624.6	482.6	42.0	34.7	31.4	20.5	21.9	21.9	16.4	11.3	9.9
75°	2190.9	282.4	30.3	24.8	17.9	13.2	15.0	15.0	10.2	5.5	4.4
77.5°	1564.7	150.5	20.1	15.3	9.1	5.8	8.0	7.7	3.3	0.4	0.0
80°	598.4	51.9	9.5	6.2	2.6	1.1	0.7	0.4	0.4	0.0	0.0
82.5°	91.3	13.5	1.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	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)