

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: P946652

Luminaire Tested: **GALN-SB2B-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10585 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 73.9
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

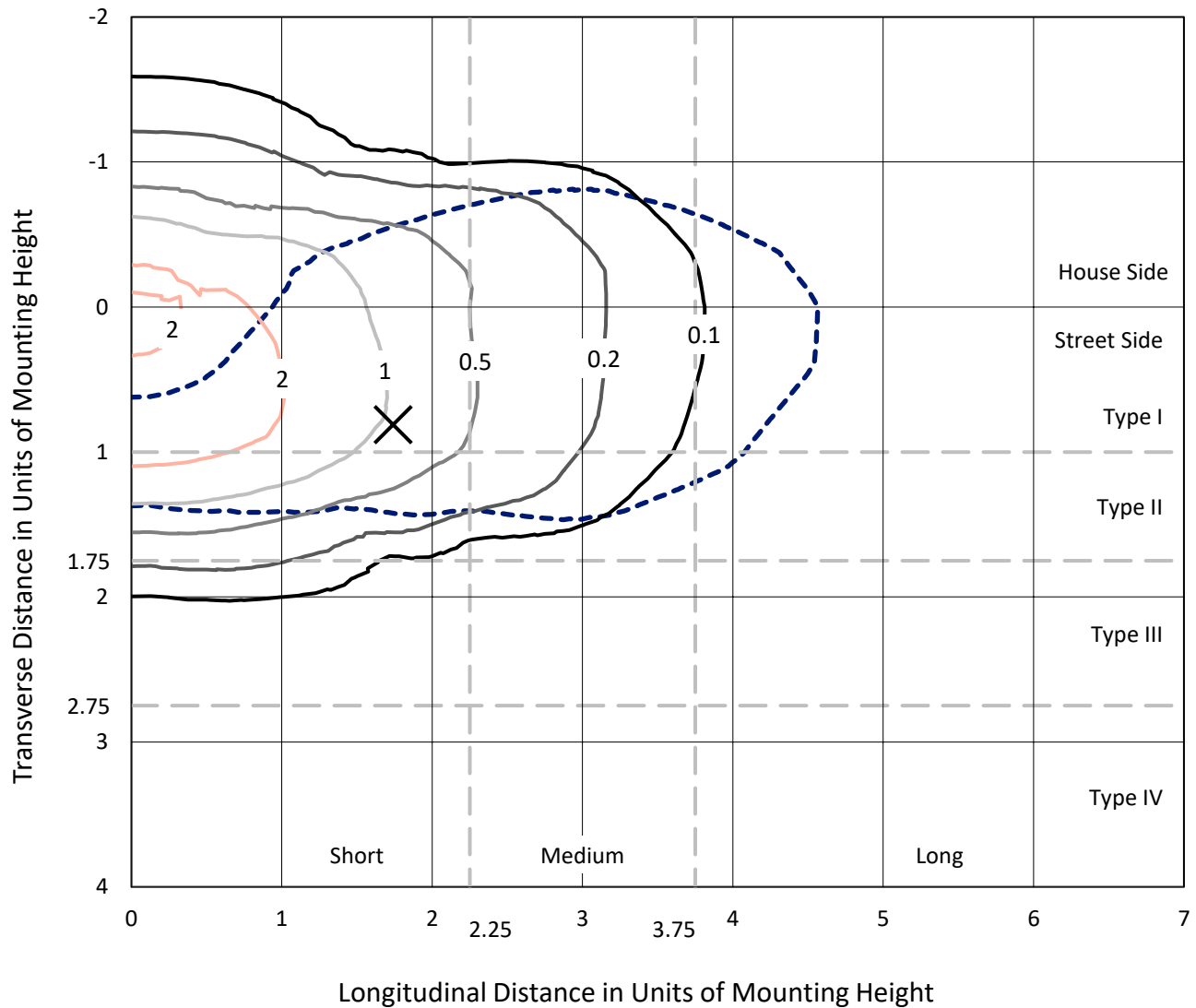


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Iso-Footcandle Lines of Horizontal Illumination

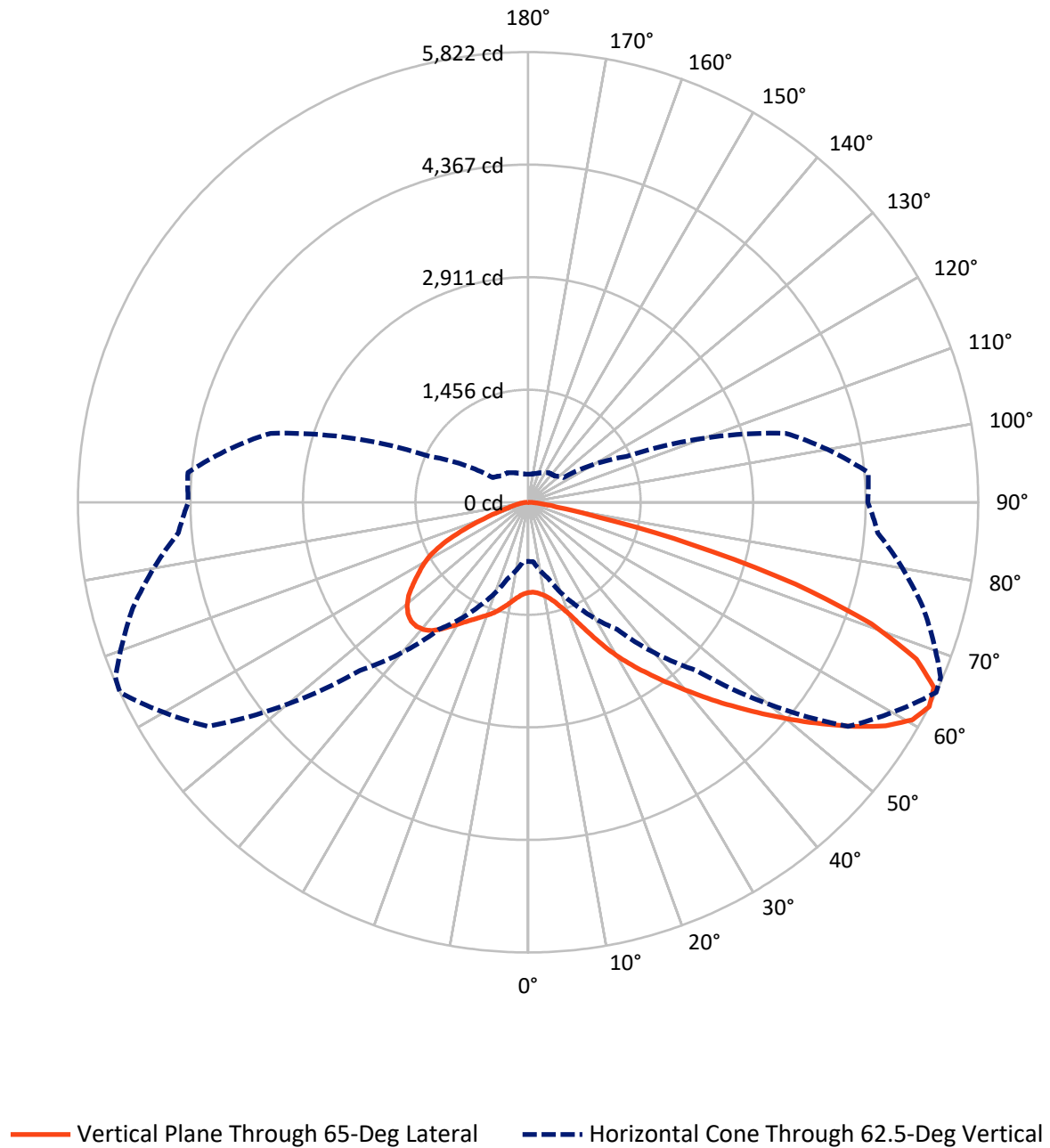
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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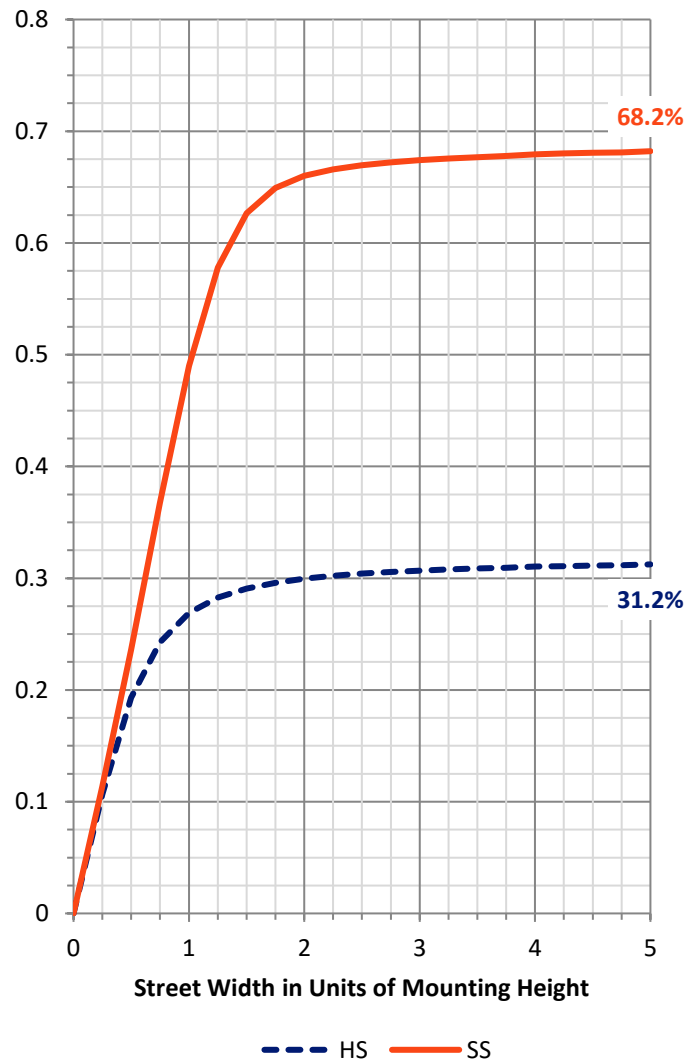
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3340.2	0.0	3340.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	7244.8	0.0	7244.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	10585.0	0.0	10585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	1.1
10°-20°	394.4	3.7
20°-30°	799.6	7.6
30°-40°	1383.7	13.1
40°-50°	2093.9	19.8
50°-60°	2455.0	23.2
60°-70°	2058.2	19.4
70°-80°	1136.3	10.7
80°-90°	147.6	1.4
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°	10585.0	100.0
0°-180°	10585.0	100.0

Coefficient of Utilization



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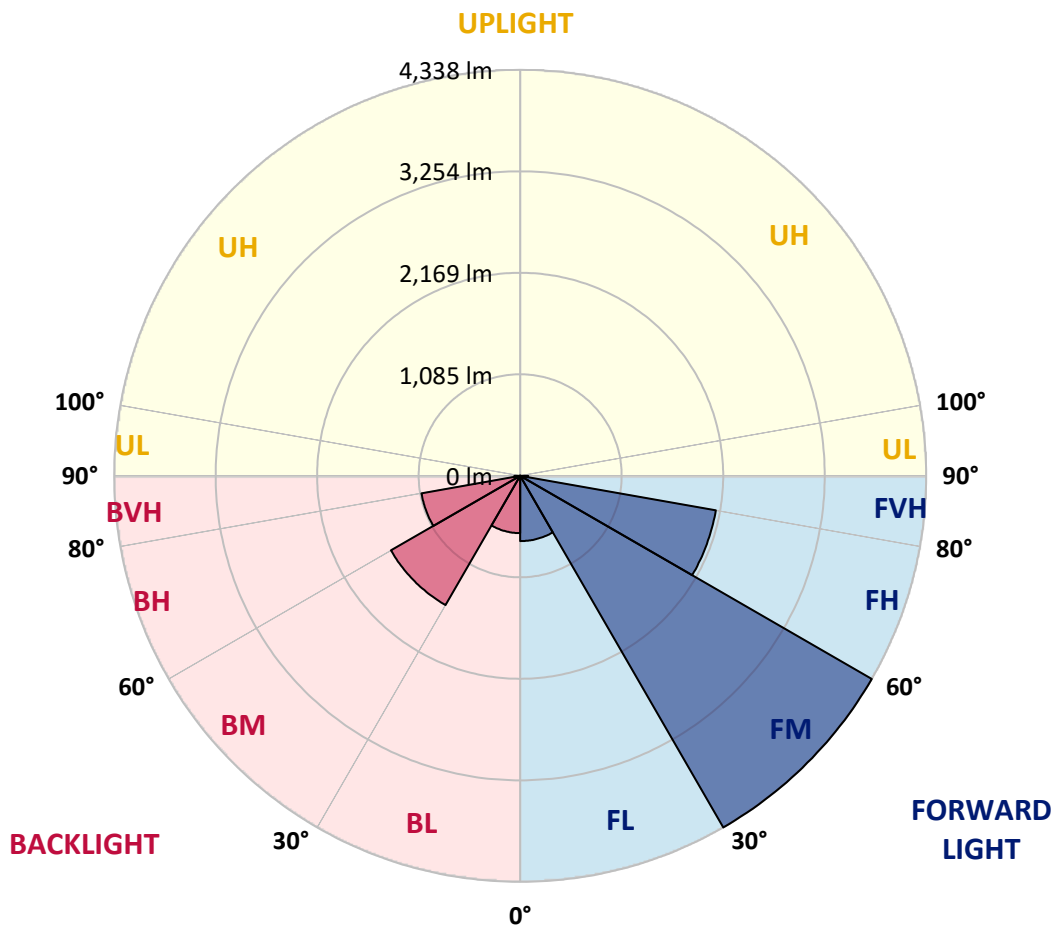
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	697.7	6.6			
FM	(30°-60°)	4338.1	41.0			
FH	(60°-80°)	2123.0	20.1			G2/5000
FVH	(80°-90°)	86.0	0.8			G1/100
BL	(0°-30°)	612.5	5.8	B2/1000		
BM	(30°-60°)	1594.6	15.1	B2/2500		
BH	(60°-80°)	1071.5	10.1	B3/2500		G3/2500
BVH	(80°-90°)	61.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4
2.5°	1158.7	1155.4	1158.2	1158.2	1159.3	1158.7	1162.6	1163.7	1165.3	1168.6	1168.6
5°	1147.2	1146.7	1151.6	1156.0	1160.4	1164.2	1169.2	1176.3	1177.4	1181.2	1186.2
7.5°	1143.4	1140.1	1147.7	1153.2	1163.7	1173.0	1186.2	1198.3	1203.2	1204.9	1214.2
10°	1173.0	1167.5	1174.7	1178.0	1186.7	1196.1	1211.5	1230.7	1236.2	1242.8	1253.2
12.5°	1223.5	1217.5	1227.9	1232.9	1241.1	1249.3	1259.8	1278.5	1281.2	1293.3	1303.2
15°	1292.7	1285.6	1292.2	1298.2	1311.9	1319.6	1330.1	1348.2	1348.2	1357.5	1364.7
17.5°	1386.6	1377.3	1382.2	1384.4	1393.2	1404.8	1422.3	1438.3	1446.5	1443.2	1433.3
20°	1526.7	1515.1	1515.1	1504.2	1500.9	1510.2	1533.3	1555.2	1564.0	1547.0	1522.8
22.5°	1737.0	1720.5	1711.2	1673.8	1659.0	1660.1	1683.2	1710.1	1717.2	1687.0	1632.7
25°	2004.4	1978.6	1966.0	1911.1	1877.6	1848.5	1866.6	1901.2	1911.1	1873.7	1785.9
27.5°	2271.9	2273.5	2261.5	2195.6	2140.1	2086.8	2077.5	2113.7	2124.2	2081.9	1973.1
30°	2647.0	2608.0	2584.9	2505.8	2426.7	2352.1	2313.6	2328.4	2331.2	2280.7	2154.4
32.5°	2970.4	2960.5	2911.1	2841.9	2740.3	2623.3	2559.1	2535.5	2531.1	2459.1	2309.2
35°	3338.9	3333.4	3281.2	3198.9	3089.0	2926.5	2810.6	2743.1	2737.6	2636.5	2462.4
37.5°	3713.4	3713.4	3662.4	3572.3	3458.6	3255.4	3079.2	2972.1	2954.5	2822.7	2618.4
40°	4012.2	3994.1	4003.4	3965.5	3835.4	3619.5	3377.3	3221.9	3198.3	3040.2	2784.3
42.5°	4181.9	4175.8	4231.8	4274.1	4220.9	4048.4	3705.7	3492.7	3459.7	3279.6	2975.4
45°	4219.8	4213.2	4313.1	4468.0	4542.7	4471.8	4062.7	3777.7	3737.6	3530.0	3180.2
47.5°	4132.4	4119.3	4265.9	4510.3	4749.7	4874.4	4449.3	4086.9	4028.7	3773.8	3390.5
50°	3869.9	3857.3	4079.2	4403.7	4819.4	5147.8	4868.9	4414.7	4325.8	4035.2	3603.1
52.5°	3299.4	3305.4	3653.0	4098.9	4727.7	5318.1	5230.2	4760.1	4653.1	4302.7	3802.4
55°	2570.1	2583.3	3010.5	3501.5	4360.9	5292.3	5476.8	5116.0	5009.5	4554.2	4008.3
57.5°	1840.2	1898.5	2298.8	2784.8	3656.3	4883.2	5530.6	5454.3	5351.0	4828.8	4209.9
60°	1192.8	1203.2	1615.1	2104.9	2784.3	4156.1	5421.3	5710.7	5630.0	5108.9	4378.5
62.5°	764.4	771.6	1022.5	1472.3	2003.9	3074.8	5053.4	5822.2	5797.5	5293.9	4540.5
65°	561.8	556.3	687.0	973.1	1349.8	1896.3	4338.9	5768.4	5817.3	5409.8	4674.5
67.5°	469.0	461.3	525.5	673.8	994.5	1076.9	3210.4	5418.6	5597.6	5396.6	4772.8
70°	427.2	420.7	459.6	500.3	776.0	721.1	1618.4	4710.7	4986.4	5246.7	4756.8
72.5°	361.9	350.4	403.6	444.3	603.5	553.0	668.9	3618.4	3954.5	4766.2	4532.8
75°	280.6	272.9	318.5	391.0	453.6	431.6	422.9	2197.2	2564.0	3686.0	3965.5
77.5°	222.4	212.0	253.7	304.8	408.0	325.7	308.1	946.2	1309.8	2353.2	2967.1
80°	167.5	158.2	192.8	241.1	313.6	245.5	199.3	386.1	493.7	1192.2	1492.1
82.5°	119.2	110.9	134.5	176.8	210.9	220.2	122.5	216.4	243.3	459.6	333.3
85°	76.3	71.4	90.1	110.9	134.0	141.7	74.7	113.1	124.1	189.5	138.9
87.5°	41.7	34.0	48.3	51.6	62.1	56.6	35.7	41.2	44.5	68.6	58.8
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°	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4
2.5°	1170.8	1172.5	1178.0	1179.6	1183.4	1188.4	1191.7	1195.0	1195.0	1198.3	1198.3
5°	1186.7	1190.6	1202.1	1208.2	1218.0	1227.9	1234.0	1241.1	1245.5	1247.7	1248.8
7.5°	1217.5	1223.5	1240.0	1250.4	1267.5	1281.2	1290.5	1300.4	1302.6	1308.7	1306.5
10°	1259.2	1266.4	1285.0	1304.8	1325.1	1342.2	1350.9	1358.1	1360.8	1361.9	1359.2
12.5°	1307.0	1317.4	1341.6	1365.8	1387.2	1402.0	1404.2	1402.6	1394.9	1388.3	1388.3
15°	1365.8	1375.1	1402.0	1428.4	1449.2	1452.0	1438.3	1429.5	1420.1	1418.5	1418.5
17.5°	1436.1	1441.0	1465.7	1491.5	1493.2	1483.8	1463.5	1455.3	1446.5	1440.5	1441.0
20°	1517.9	1516.2	1533.8	1544.8	1533.3	1504.7	1474.0	1460.2	1451.4	1444.3	1444.8
22.5°	1615.6	1603.0	1600.8	1598.1	1567.3	1507.5	1465.7	1448.1	1434.4	1424.5	1427.8
25°	1757.9	1709.5	1676.0	1657.4	1588.2	1492.6	1439.4	1400.4	1374.6	1357.5	1364.1
27.5°	1935.8	1854.5	1770.0	1724.4	1588.2	1462.4	1375.7	1312.5	1270.2	1252.6	1261.4
30°	2105.5	2020.4	1895.7	1805.1	1584.3	1413.0	1273.0	1185.1	1135.7	1118.1	1128.5
32.5°	2250.5	2157.7	2029.2	1893.5	1575.0	1332.8	1145.6	1048.4	1000.6	979.7	990.1
35°	2385.0	2286.2	2163.2	1990.7	1550.3	1215.3	1005.5	931.4	878.1	844.6	855.6
37.5°	2522.9	2405.3	2290.0	2078.6	1505.8	1078.0	897.9	834.7	772.1	727.1	739.2
40°	2672.8	2532.2	2425.7	2130.8	1432.8	947.3	814.4	756.7	690.3	642.5	651.9
42.5°	2848.0	2684.3	2576.7	2157.7	1332.8	854.5	760.0	703.5	640.9	601.9	609.6
45°	3030.8	2851.8	2714.5	2157.1	1221.3	811.1	742.5	686.5	617.3	576.6	583.2
47.5°	3222.5	3027.0	2833.7	2122.0	1124.7	817.2	732.6	649.7	573.3	533.8	539.3
50°	3414.7	3218.6	2949.0	2056.1	1083.5	804.0	695.8	598.0	508.0	472.3	474.5
52.5°	3605.3	3422.4	3048.4	1962.2	1041.8	755.1	648.6	531.0	481.1	456.4	456.4
55°	3796.9	3623.9	3156.6	1825.4	937.4	698.0	569.5	505.8	459.6	437.1	434.9
57.5°	3989.1	3856.8	3259.3	1688.7	806.2	627.7	526.1	475.0	438.2	419.0	415.7
60°	4189.0	4123.1	3365.3	1562.9	676.6	537.6	494.2	450.3	413.0	391.6	389.9
62.5°	4394.9	4416.4	3448.2	1400.9	557.4	482.7	465.7	420.7	384.4	364.1	363.5
65°	4602.5	4699.2	3502.6	1176.3	452.0	430.5	434.9	388.3	351.5	333.9	333.3
67.5°	4759.0	4902.9	3487.2	890.2	370.7	381.1	396.5	354.2	319.6	305.9	306.4
70°	4776.6	4878.8	3335.6	609.6	310.3	332.8	353.7	320.7	285.0	275.1	275.7
72.5°	4542.7	4549.3	2913.3	398.1	262.5	292.2	308.6	286.7	252.1	242.2	241.6
75°	3929.3	3762.3	2139.0	262.5	219.7	251.0	266.3	251.0	217.5	219.7	212.0
77.5°	2977.0	2664.5	1298.8	186.7	183.4	210.9	231.7	220.8	192.2	215.8	190.0
80°	1533.8	1441.6	579.4	139.5	145.0	168.6	190.6	176.3	152.1	145.0	132.3
82.5°	351.5	408.6	228.5	99.9	104.9	121.4	145.5	132.3	109.3	92.3	91.2
85°	123.0	134.5	101.0	62.6	61.5	75.8	98.8	88.4	74.1	59.3	62.6
87.5°	39.0	51.1	37.9	25.3	26.4	34.0	45.6	41.7	34.6	22.5	23.6
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)