

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: P945929

Luminaire Tested: **GALN-SB1D-727-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7603 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

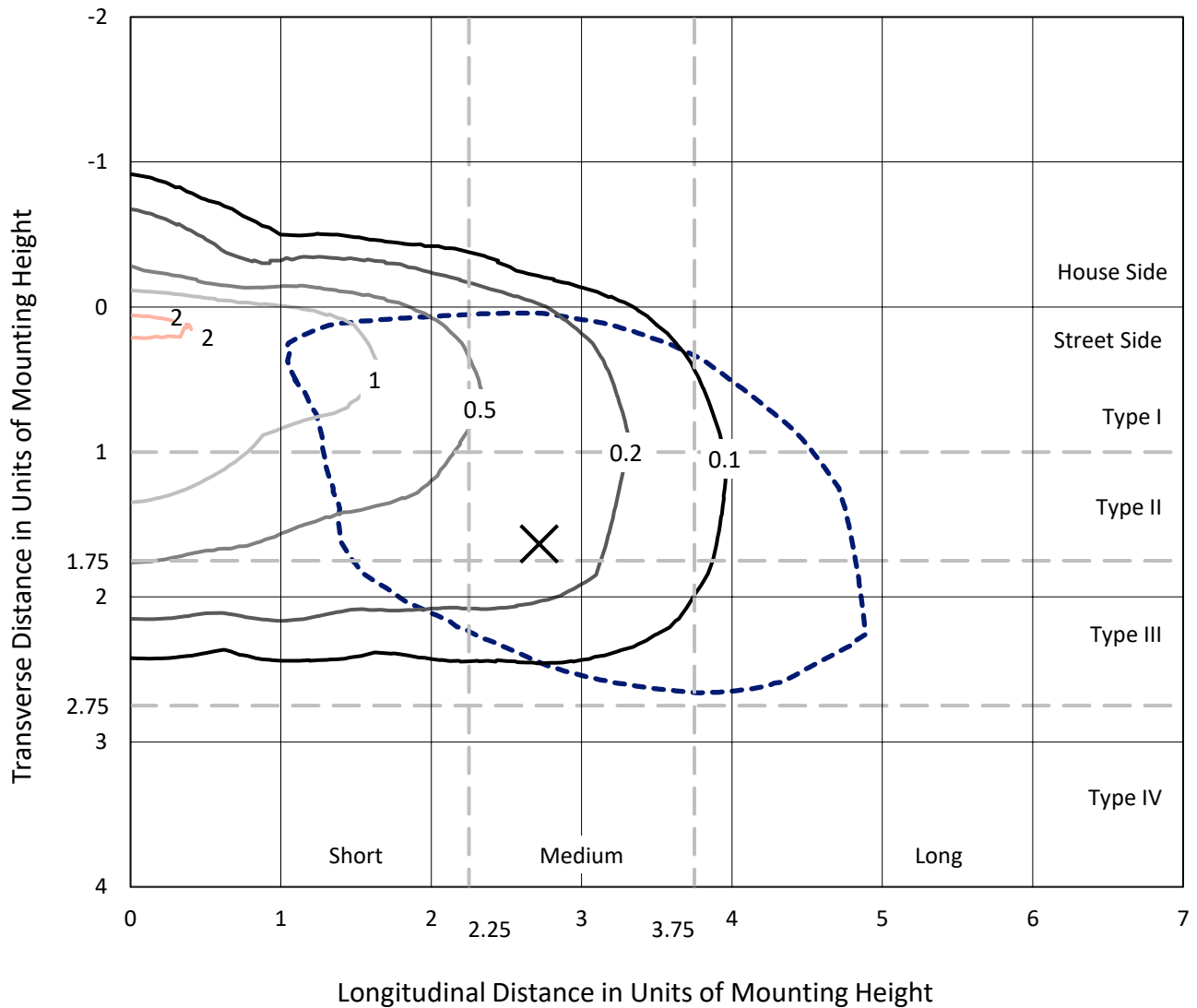
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

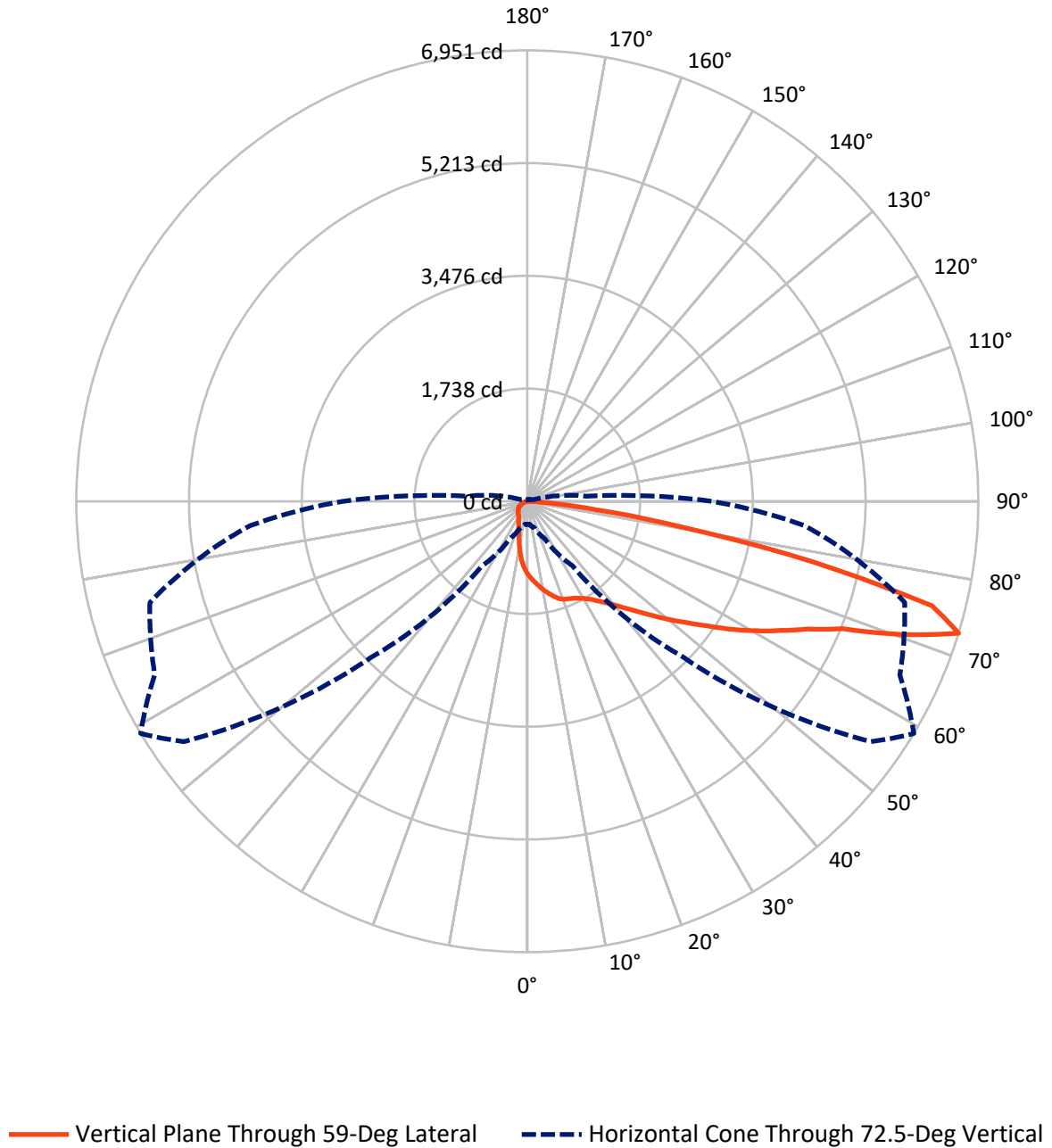
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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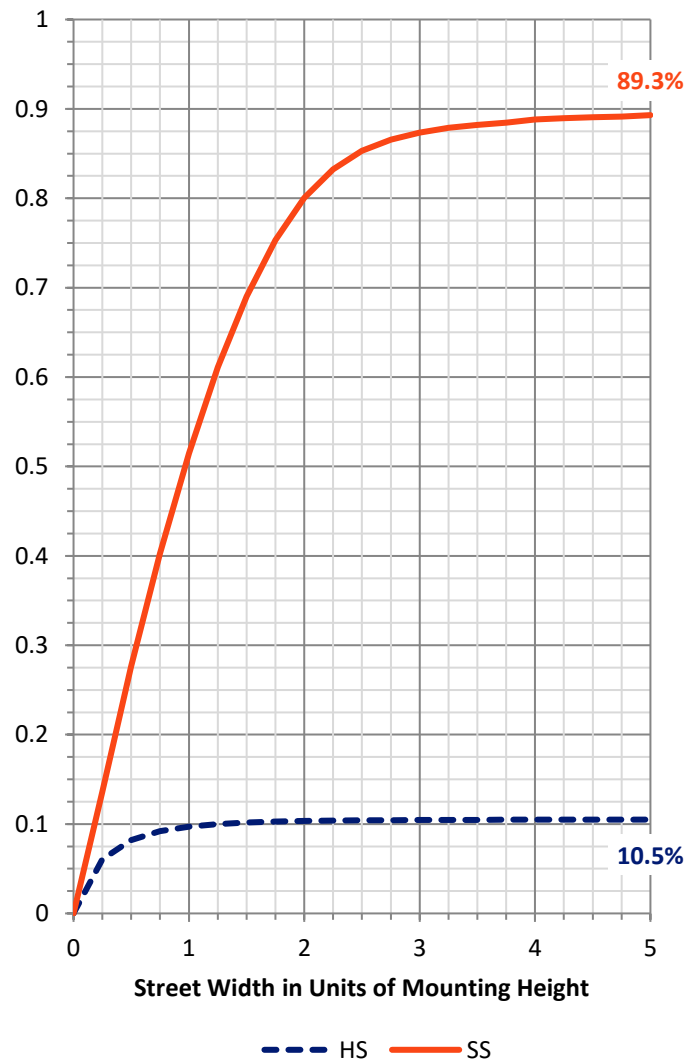
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	803.0	0.0	803.0
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	6800.0	0.0	6800.0
	% Fixture	89.4	0.0	89.4
Total	Lumens	7603.0	0.0	7603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	1.3
10°-20°	270.2	3.6
20°-30°	428.2	5.6
30°-40°	687.2	9.0
40°-50°	1097.6	14.4
50°-60°	1589.1	20.9
60°-70°	1885.9	24.8
70°-80°	1400.0	18.4
80°-90°	143.1	1.9
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°	7603.0	100.0
0°-180°	7603.0	100.0

Coefficient of Utilization



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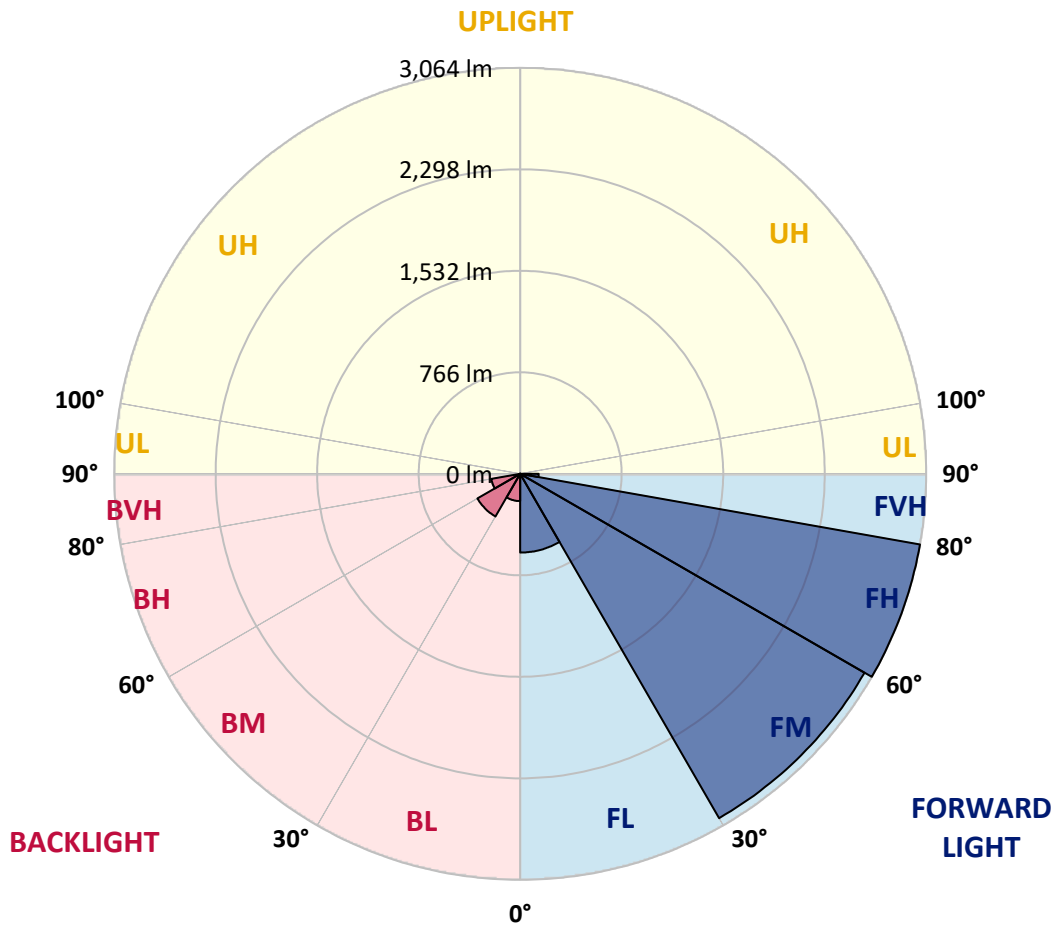
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	594.4	7.8			
FM (30°-60°)	3001.6	39.5			
FH (60°-80°)	3064.4	40.3			G2/5000
FVH (80°-90°)	139.6	1.8			G2/225
BL (0°-30°)	205.7	2.7	B1/500		
BM (30°-60°)	372.3	4.9	B1/1000		
BH (60°-80°)	221.5	2.9	B1/500		G1/500
BVH (80°-90°)	3.6	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1124.3	1124.3	1124.3	1124.3	1124.3	1124.3	1124.3	1124.3	1124.3	1124.3	1124.3
2.5°	1247.4	1240.5	1241.4	1229.5	1221.1	1212.2	1194.8	1192.3	1179.9	1158.1	1135.7
5°	1356.1	1351.6	1347.7	1334.3	1316.9	1295.1	1265.8	1255.3	1232.5	1194.8	1151.1
7.5°	1435.5	1430.1	1432.1	1418.7	1404.8	1380.4	1340.2	1320.9	1290.6	1233.0	1167.0
10°	1450.9	1447.9	1460.8	1465.8	1465.8	1450.4	1411.2	1391.9	1347.7	1274.2	1183.4
12.5°	1364.6	1365.0	1397.3	1436.0	1486.7	1501.1	1474.7	1453.9	1410.2	1317.9	1204.2
15°	1263.8	1264.3	1295.6	1345.2	1428.1	1511.0	1531.8	1518.4	1473.3	1365.0	1228.5
17.5°	1203.2	1200.7	1221.6	1262.3	1349.2	1465.8	1566.6	1575.5	1538.8	1417.2	1255.3
20°	1194.8	1190.3	1201.2	1221.6	1283.6	1409.2	1570.5	1612.7	1606.3	1476.2	1286.1
22.5°	1246.4	1239.5	1233.5	1234.5	1260.8	1362.1	1560.6	1633.6	1675.8	1547.2	1328.3
25°	1348.7	1337.7	1318.4	1293.6	1288.1	1352.1	1553.7	1656.4	1740.3	1638.1	1383.9
27.5°	1473.8	1458.4	1421.1	1383.9	1352.1	1379.9	1568.1	1692.7	1813.3	1743.8	1448.4
30°	1611.3	1592.4	1555.2	1484.7	1434.0	1442.0	1602.3	1740.3	1906.6	1863.4	1529.3
32.5°	1813.3	1769.6	1704.6	1596.9	1529.8	1509.0	1653.9	1800.9	2022.3	2022.8	1646.5
35°	1986.5	1962.2	1896.7	1762.6	1625.2	1597.8	1721.9	1886.2	2182.6	2233.7	1810.3
37.5°	2100.2	2066.9	2009.3	1908.6	1773.1	1689.2	1812.8	1991.0	2352.3	2474.0	2012.3
40°	2227.3	2194.5	2118.1	2023.2	1944.8	1846.0	1927.4	2111.6	2538.5	2720.7	2243.1
42.5°	2380.6	2338.0	2247.6	2145.4	2063.5	2052.5	2077.4	2262.0	2729.6	2988.7	2483.4
45°	2560.8	2520.6	2416.9	2287.8	2215.8	2196.5	2266.0	2437.2	2942.5	3282.6	2726.1
47.5°	2729.6	2682.9	2571.3	2453.6	2373.7	2312.6	2466.5	2644.2	3183.8	3589.8	2955.5
50°	2873.1	2825.4	2723.1	2597.6	2543.5	2463.5	2663.6	2875.0	3423.0	3902.0	3164.9
52.5°	2971.3	2929.1	2809.0	2723.6	2686.9	2646.7	2894.4	3119.8	3661.3	4188.0	3371.9
55°	2949.0	2911.3	2805.5	2799.6	2797.1	2839.3	3170.4	3397.2	3904.0	4458.5	3577.9
57.5°	2878.0	2835.3	2703.3	2794.1	2882.0	3011.0	3469.2	3725.3	4170.1	4713.6	3776.5
60°	2669.0	2654.1	2573.7	2783.7	2917.7	3179.3	3810.7	4054.9	4458.0	4938.0	3952.7
62.5°	2226.8	2239.7	2239.2	2805.5	2982.3	3370.9	4121.0	4388.5	4739.4	5153.9	4109.5
65°	1667.3	1712.0	1769.1	2609.0	3068.6	3712.9	4491.8	4750.4	5025.4	5405.1	4268.9
67.5°	1120.3	1156.1	1194.8	2140.4	2811.5	4072.3	5107.8	5246.2	5367.9	5683.6	4448.1
70°	641.3	652.7	706.8	1336.8	2167.2	3973.0	6110.9	6161.1	5878.6	6026.6	4578.6
72.5°	359.4	355.4	426.9	634.4	1211.2	3402.2	6462.4	6951.3	6335.8	6021.1	4287.2
75°	240.2	240.7	293.9	400.1	472.1	2381.6	5568.9	6445.5	6061.8	5339.1	3503.0
77.5°	163.8	169.3	215.9	309.2	218.4	1162.0	3684.1	4515.1	4907.7	4122.9	2418.4
80°	71.0	71.5	142.5	221.9	147.4	369.8	1910.1	2418.9	3078.1	2315.1	958.0
82.5°	36.7	41.7	90.8	143.5	92.8	129.6	902.4	1056.8	1291.6	679.5	196.6
85°	12.9	15.4	56.1	70.5	46.7	46.2	314.2	320.2	273.5	102.3	54.1
87.5°	0.0	2.5	21.8	17.4	6.0	5.5	37.2	31.3	24.8	14.4	17.9
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°	1124.3	1124.3	1124.3	1124.3	1124.3	1124.3	1124.3	1124.3	1124.3	1124.3	1124.3
2.5°	1125.3	1111.9	1090.1	1063.2	1032.0	1015.1	990.8	975.9	962.5	963.0	973.9
5°	1126.8	1104.4	1048.9	989.8	924.3	876.1	822.5	784.8	756.0	749.0	759.5
7.5°	1131.3	1093.5	1002.7	904.4	795.2	714.3	640.3	593.7	567.4	560.4	567.4
10°	1137.2	1081.6	950.6	800.2	664.7	567.4	505.8	476.0	464.1	455.2	460.6
12.5°	1142.2	1069.2	885.0	692.5	548.5	472.6	425.9	401.1	390.7	384.2	387.7
15°	1150.6	1052.8	814.1	592.2	470.1	408.0	363.8	345.5	342.5	343.5	345.0
17.5°	1159.0	1036.9	734.6	513.8	412.5	351.4	324.6	321.7	325.6	329.6	331.1
20°	1168.5	1014.1	654.2	454.7	359.4	312.2	305.3	307.3	309.2	316.2	318.2
22.5°	1182.4	985.3	583.7	404.6	315.2	293.4	289.9	291.4	292.9	299.8	301.8
25°	1202.2	954.5	526.7	358.4	287.4	278.0	274.5	274.5	276.5	282.9	285.4
27.5°	1223.1	910.9	480.5	315.7	271.0	261.1	255.1	255.1	257.6	265.1	268.0
30°	1246.4	871.1	444.3	283.9	257.1	244.2	236.3	234.3	237.3	246.7	249.2
32.5°	1288.6	845.3	418.4	269.0	244.7	228.8	217.9	212.5	215.4	226.3	229.3
35°	1352.6	839.4	400.6	261.6	232.8	214.9	199.5	191.1	193.6	205.0	208.5
37.5°	1427.6	851.8	383.2	251.7	221.4	201.5	181.2	170.3	174.2	184.7	187.6
40°	1535.3	903.4	369.8	244.2	210.0	185.6	162.8	151.9	158.3	167.3	168.8
42.5°	1665.4	995.2	366.3	237.3	196.1	168.8	145.9	138.0	143.0	151.4	152.9
45°	1826.7	1112.4	382.2	228.3	180.7	152.4	132.5	128.1	129.6	138.0	142.0
47.5°	1999.9	1232.5	425.9	220.4	167.3	139.0	122.1	118.1	117.1	125.1	130.1
50°	2175.1	1339.2	477.5	214.4	157.8	128.1	114.2	109.2	106.7	111.7	113.7
52.5°	2348.4	1424.1	511.3	204.5	148.4	117.1	107.2	99.8	95.3	97.8	99.8
55°	2524.1	1498.6	513.3	189.6	139.5	110.2	100.3	91.8	86.4	86.4	87.4
57.5°	2688.4	1564.1	484.0	169.8	127.1	103.7	90.8	83.9	77.9	75.9	76.4
60°	2833.8	1612.7	435.3	147.4	116.2	95.3	81.4	75.9	68.5	64.5	63.5
62.5°	2963.4	1636.6	368.8	124.6	102.8	85.4	72.5	66.5	56.6	51.6	51.1
65°	3073.1	1612.2	299.3	103.2	91.3	74.5	62.0	56.1	45.2	39.2	39.2
67.5°	3181.8	1501.1	226.3	86.9	79.4	62.5	51.1	45.7	37.7	32.8	32.8
70°	3195.7	1267.3	158.3	73.0	66.0	48.1	41.2	37.7	30.8	26.3	25.8
72.5°	2844.8	911.9	96.3	59.6	51.6	34.3	32.8	29.8	22.8	19.9	19.4
75°	2273.9	558.9	56.6	44.7	34.3	24.3	24.3	21.3	15.4	12.9	12.9
77.5°	1571.5	292.4	33.3	28.8	20.4	14.4	15.9	12.9	7.4	6.0	6.0
80°	629.4	111.2	17.9	13.4	9.4	6.5	5.5	3.0	1.5	1.0	1.5
82.5°	125.6	29.3	6.0	3.5	3.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	32.3	6.5	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	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)