

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: P945231

Luminaire Tested: **GALN-SB1B-730-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4803 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - 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

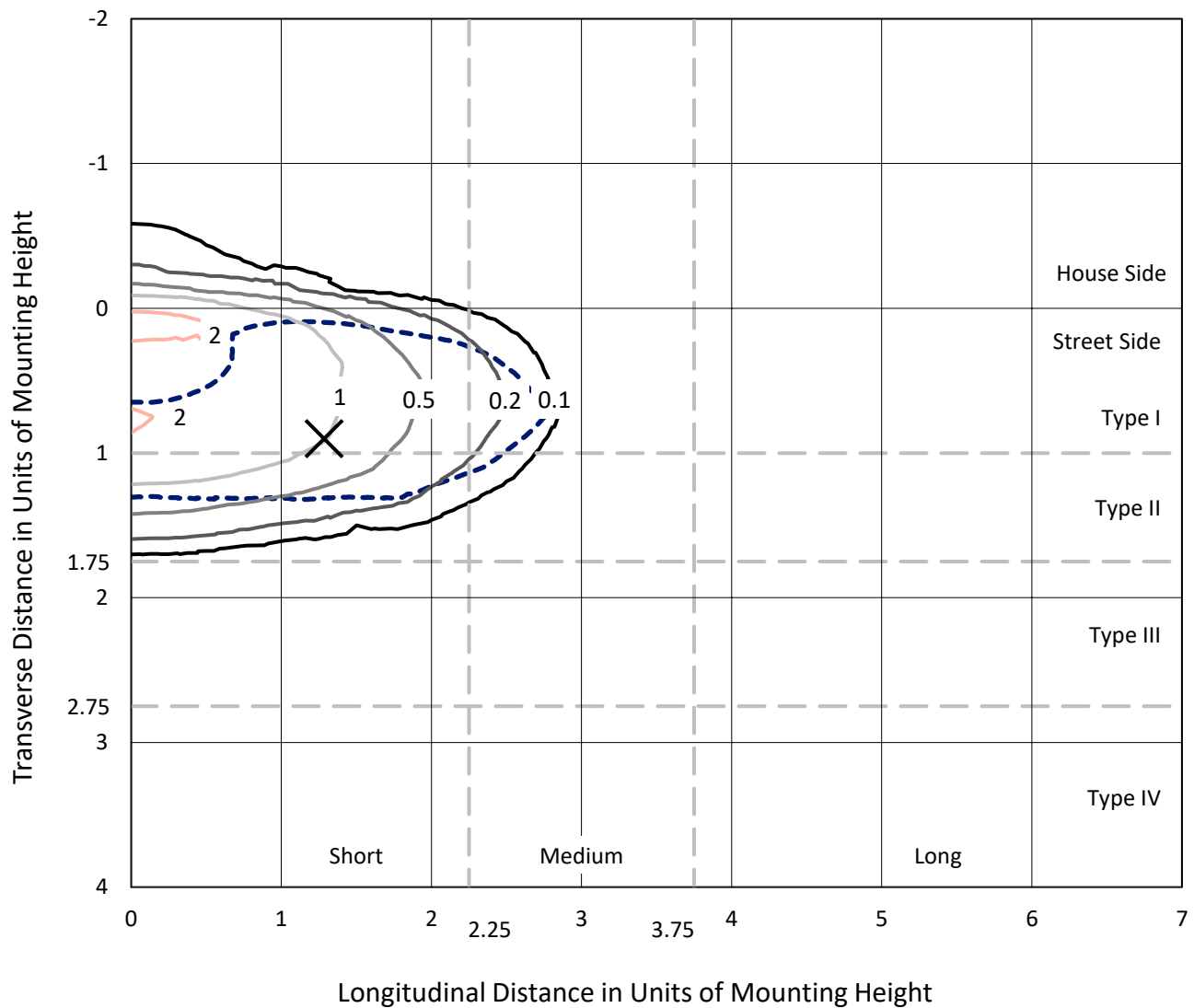


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Iso-Footcandle Lines of Horizontal Illumination

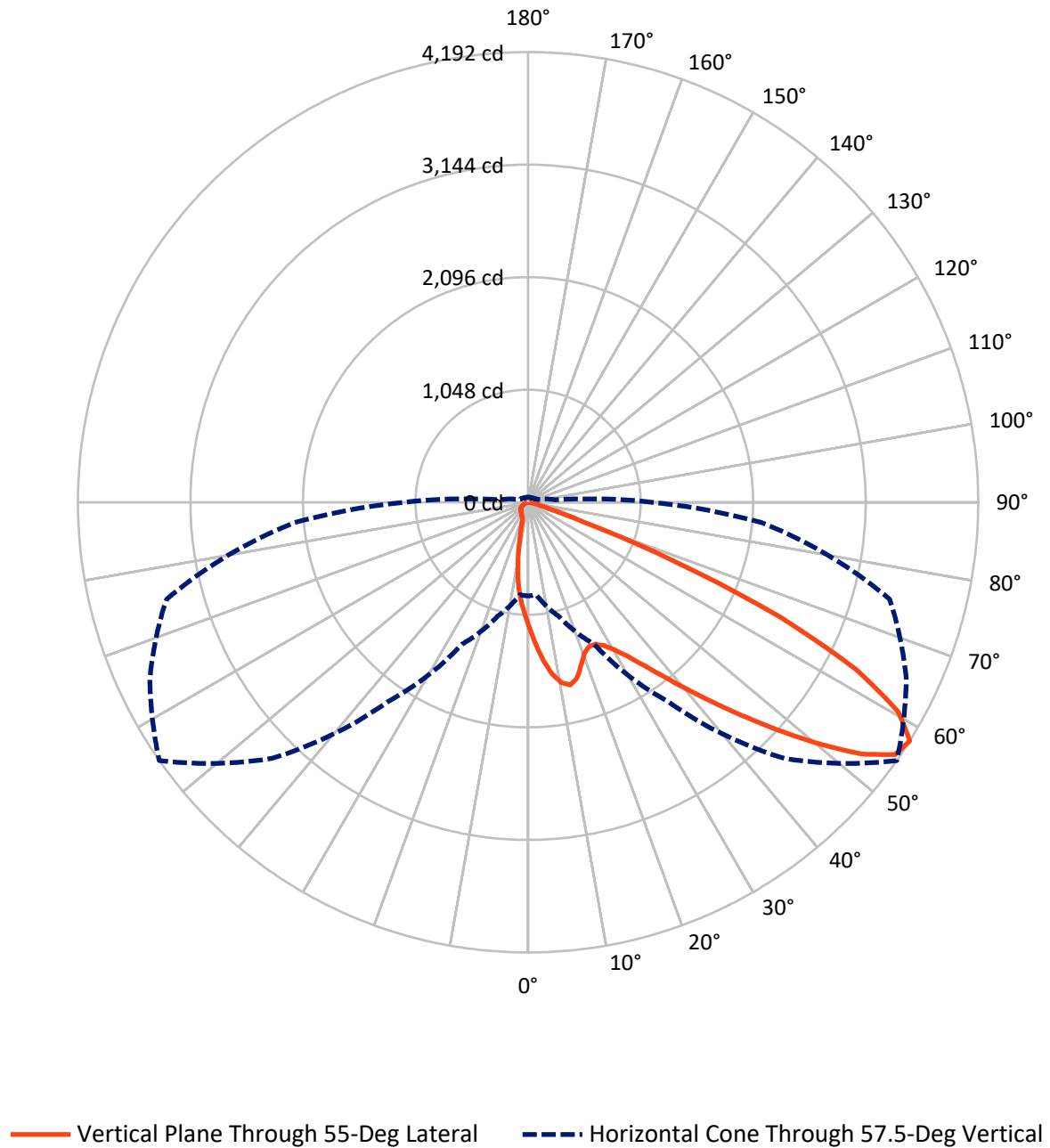
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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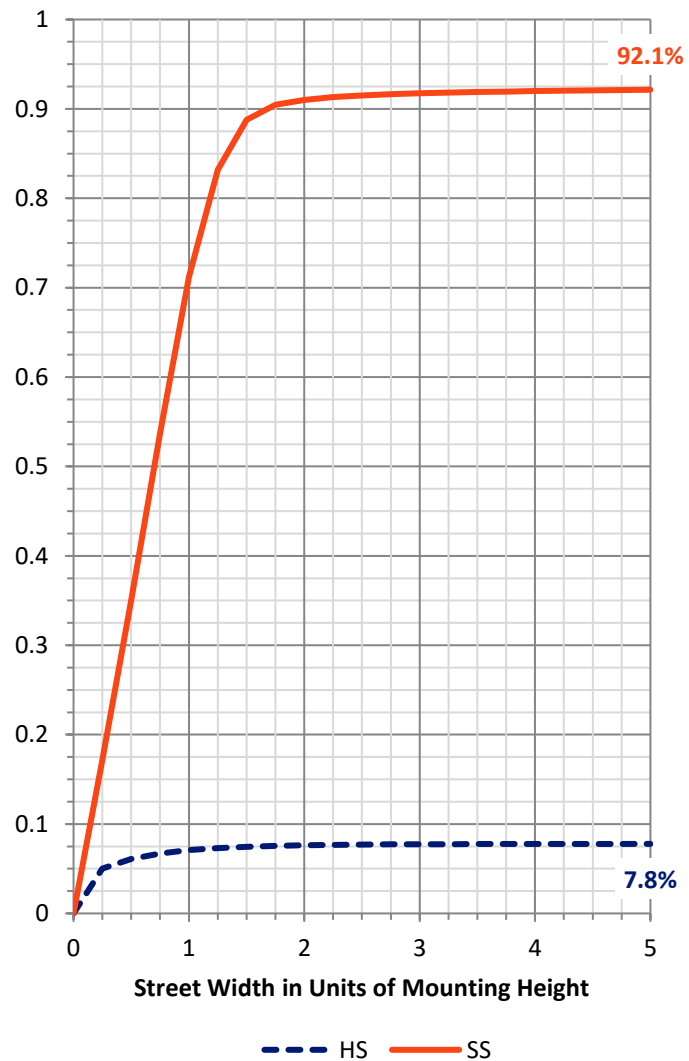
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	375.1	0.0	375.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	4427.9	0.0	4427.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	4803.0	0.0	4803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	2.2
10°-20°	260.1	5.4
20°-30°	416.2	8.7
30°-40°	704.4	14.7
40°-50°	1156.5	24.1
50°-60°	1271.1	26.5
60°-70°	729.1	15.2
70°-80°	149.0	3.1
80°-90°	8.8	0.2
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°	4803.0	100.0
0°-180°	4803.0	100.0

Coefficient of Utilization



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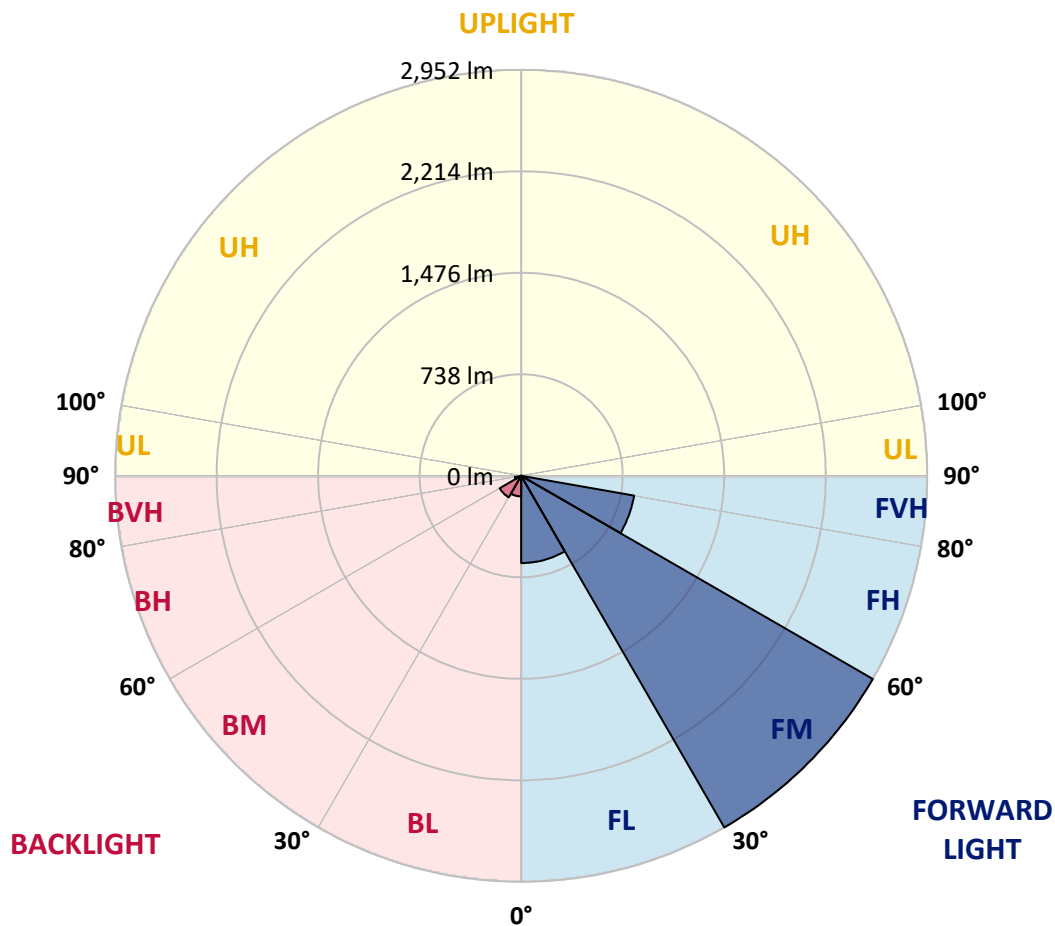
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	634.3	13.2			
FM	(30°-60°)	2952.0	61.5			
FH	(60°-80°)	833.5	17.4			G1/1800
FVH	(80°-90°)	8.2	0.2			G0/10
BL	(0°-30°)	149.7	3.1	B1/500		
BM	(30°-60°)	180.1	3.8	B0/220		
BH	(60°-80°)	44.6	0.9	B0/110		G0/110
BVH	(80°-90°)	0.6	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4
2.5°	1436.1	1418.0	1415.4	1411.8	1377.5	1351.7	1314.4	1273.5	1227.6	1180.8	1160.1
5°	1659.1	1644.9	1642.2	1625.6	1586.5	1542.7	1476.4	1392.6	1307.0	1206.3	1163.0
7.5°	1702.3	1699.7	1711.8	1711.2	1705.9	1671.2	1615.3	1515.5	1386.9	1237.7	1170.7
10°	1509.5	1516.4	1552.5	1584.2	1669.8	1719.5	1707.4	1625.0	1469.3	1273.5	1179.3
12.5°	1333.9	1325.9	1351.7	1387.5	1487.0	1635.1	1745.6	1716.6	1563.4	1314.1	1192.1
15°	1223.7	1220.5	1235.0	1251.6	1327.4	1476.7	1701.2	1790.9	1654.1	1362.1	1211.3
17.5°	1188.5	1185.8	1190.3	1194.4	1243.6	1359.1	1595.4	1836.5	1740.8	1416.8	1232.6
20°	1217.2	1213.7	1213.1	1209.8	1230.3	1309.0	1499.8	1839.8	1818.7	1466.6	1251.0
22.5°	1301.0	1296.9	1282.4	1269.4	1271.1	1315.9	1457.1	1807.2	1877.4	1513.1	1262.5
25°	1453.0	1446.2	1416.0	1372.1	1344.3	1363.2	1463.6	1764.2	1933.4	1549.5	1256.9
27.5°	1643.1	1634.2	1595.4	1530.3	1466.6	1443.5	1510.7	1734.6	1979.8	1577.4	1244.8
30°	1829.4	1817.8	1779.6	1729.0	1636.0	1563.1	1595.7	1747.7	2035.2	1606.4	1228.8
32.5°	2030.5	2019.5	1968.9	1906.1	1829.1	1731.1	1712.1	1811.3	2103.1	1647.0	1217.5
35°	2284.9	2267.7	2195.8	2110.2	2028.4	1929.2	1869.7	1921.2	2193.4	1708.9	1223.7
37.5°	2574.5	2551.4	2473.8	2355.7	2249.1	2138.0	2061.6	2072.3	2325.8	1791.8	1243.0
40°	2847.6	2826.6	2754.9	2643.6	2509.7	2374.9	2293.5	2269.8	2508.5	1892.8	1276.8
42.5°	3011.4	2992.4	2962.2	2915.1	2802.3	2664.9	2562.1	2510.9	2724.7	2013.6	1317.9
45°	3020.6	3004.0	3044.6	3099.3	3077.1	2985.6	2860.3	2766.5	2941.8	2127.0	1360.6
47.5°	2873.7	2862.4	2985.6	3176.9	3272.3	3310.8	3195.3	3000.7	3121.0	2208.5	1378.0
50°	2473.3	2469.1	2722.6	3073.9	3346.6	3595.7	3548.6	3218.7	3259.9	2250.5	1361.5
52.5°	2144.5	2129.4	2277.2	2743.9	3238.5	3745.6	3893.9	3432.5	3357.0	2258.5	1322.7
55°	1626.5	1613.2	1798.6	2191.9	2890.0	3692.3	4146.6	3653.2	3426.6	2238.1	1253.1
57.5°	872.5	864.2	1098.5	1458.9	2259.1	3372.4	4192.2	3886.5	3485.2	2183.9	1155.6
60°	339.7	338.2	425.9	707.8	1373.0	2743.7	3962.1	4026.6	3522.0	2117.3	1074.2
62.5°	205.5	210.0	224.2	317.8	606.5	1704.4	3431.6	3867.3	3546.6	2056.3	1007.0
65°	170.0	170.3	172.1	218.3	290.5	713.2	2583.4	3343.1	3485.8	1947.6	911.6
67.5°	145.7	148.4	155.2	173.3	204.9	312.7	1487.3	2589.6	3116.5	1694.6	762.9
70°	114.9	118.5	127.1	142.5	158.2	195.8	549.7	1723.1	2380.9	1277.4	576.9
72.5°	96.8	96.5	101.0	115.8	125.6	137.7	211.5	965.5	1383.7	609.8	285.5
75°	74.9	77.9	83.5	96.8	102.8	99.8	114.6	352.7	495.8	184.8	97.1
77.5°	58.6	61.0	66.0	79.1	85.0	70.8	66.0	126.2	159.3	66.3	43.8
80°	26.4	28.4	45.0	58.3	69.3	48.9	35.8	64.6	70.8	30.2	22.2
82.5°	4.7	8.0	26.4	30.8	35.5	31.7	18.7	33.5	34.7	12.1	7.7
85°	0.3	0.6	9.2	11.3	14.2	10.4	5.6	13.3	11.6	4.1	3.0
87.5°	0.0	0.0	0.0	0.3	0.3	1.5	1.8	2.4	1.8	1.5	1.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4	1157.4
2.5°	1138.7	1096.7	1055.8	1022.4	1002.8	969.6	947.7	944.2	935.0	943.0
5°	1116.8	1041.6	965.5	897.4	841.4	769.1	715.2	692.4	672.6	679.4
7.5°	1106.5	987.7	869.2	752.8	633.2	517.7	431.8	396.0	368.7	372.6
10°	1092.5	931.7	746.0	568.3	408.1	294.1	234.9	212.9	200.8	201.1
12.5°	1081.9	864.8	603.0	385.3	248.5	187.8	169.4	164.1	160.5	160.8
15°	1076.6	786.0	461.7	256.8	177.7	159.0	154.6	152.2	149.9	149.6
17.5°	1067.7	698.4	337.9	187.5	155.5	149.0	145.1	142.5	139.5	138.9
20°	1054.3	598.8	247.0	158.4	145.7	140.7	135.3	131.8	128.2	127.6
22.5°	1029.8	493.7	189.8	146.6	138.6	133.0	126.5	122.3	118.8	118.2
25°	984.1	395.1	159.9	139.2	132.4	125.6	118.5	112.8	109.6	109.0
27.5°	926.4	310.4	145.1	132.4	124.4	118.2	110.2	104.8	101.9	101.3
30°	858.3	239.0	136.5	124.7	114.9	109.6	102.5	98.0	96.3	96.3
32.5°	784.8	191.0	133.0	117.0	106.6	100.7	95.1	93.3	92.7	92.4
35°	715.8	165.9	131.2	110.8	99.2	93.6	91.2	91.5	92.7	92.7
37.5°	654.5	157.9	130.3	106.3	92.7	87.7	89.1	91.8	90.6	90.6
40°	599.1	158.7	129.7	103.1	87.4	84.4	87.4	85.3	82.3	82.0
42.5°	556.8	166.1	128.5	100.4	84.1	82.0	80.9	77.6	77.3	77.9
45°	526.0	172.7	128.2	99.2	80.6	76.7	75.2	72.0	77.9	79.4
47.5°	489.6	172.7	128.2	95.1	74.6	73.2	70.8	67.2	73.2	74.6
50°	442.5	161.7	123.2	90.3	69.9	69.0	64.9	60.4	59.2	60.1
52.5°	382.9	141.9	110.5	83.8	65.2	63.4	58.3	55.1	54.2	54.2
55°	315.1	118.8	93.3	74.3	60.1	56.9	53.3	51.8	50.9	50.3
57.5°	256.2	97.4	74.9	66.0	55.4	51.2	50.1	48.3	46.8	45.9
60°	210.3	76.7	61.9	58.6	50.6	46.8	46.5	44.1	40.3	39.7
62.5°	162.3	56.3	52.1	50.9	45.9	42.6	42.1	37.3	31.4	30.2
65°	114.6	43.8	42.1	44.7	40.9	37.9	36.4	29.3	23.1	22.2
67.5°	80.6	36.7	33.2	39.1	35.5	31.7	30.8	24.9	19.3	18.7
70°	57.5	29.9	27.2	33.5	28.4	27.8	26.1	20.7	15.7	15.1
72.5°	40.6	22.8	21.0	29.0	19.5	24.0	21.3	16.0	11.8	11.3
75°	29.9	16.3	14.8	16.9	14.2	18.1	15.1	10.7	7.4	7.1
77.5°	21.9	10.4	8.9	8.3	8.3	11.3	8.3	4.4	3.3	3.0
80°	15.4	4.7	4.1	3.6	3.3	2.7	1.2	0.6	0.3	0.3
82.5°	9.2	2.1	2.1	1.5	0.9	0.0	0.0	0.0	0.0	0.0
85°	2.1	0.9	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.3	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

(END OF REPORT)