

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: P947724

Luminaire Tested: **GALN-SB3A-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10393 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.7
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

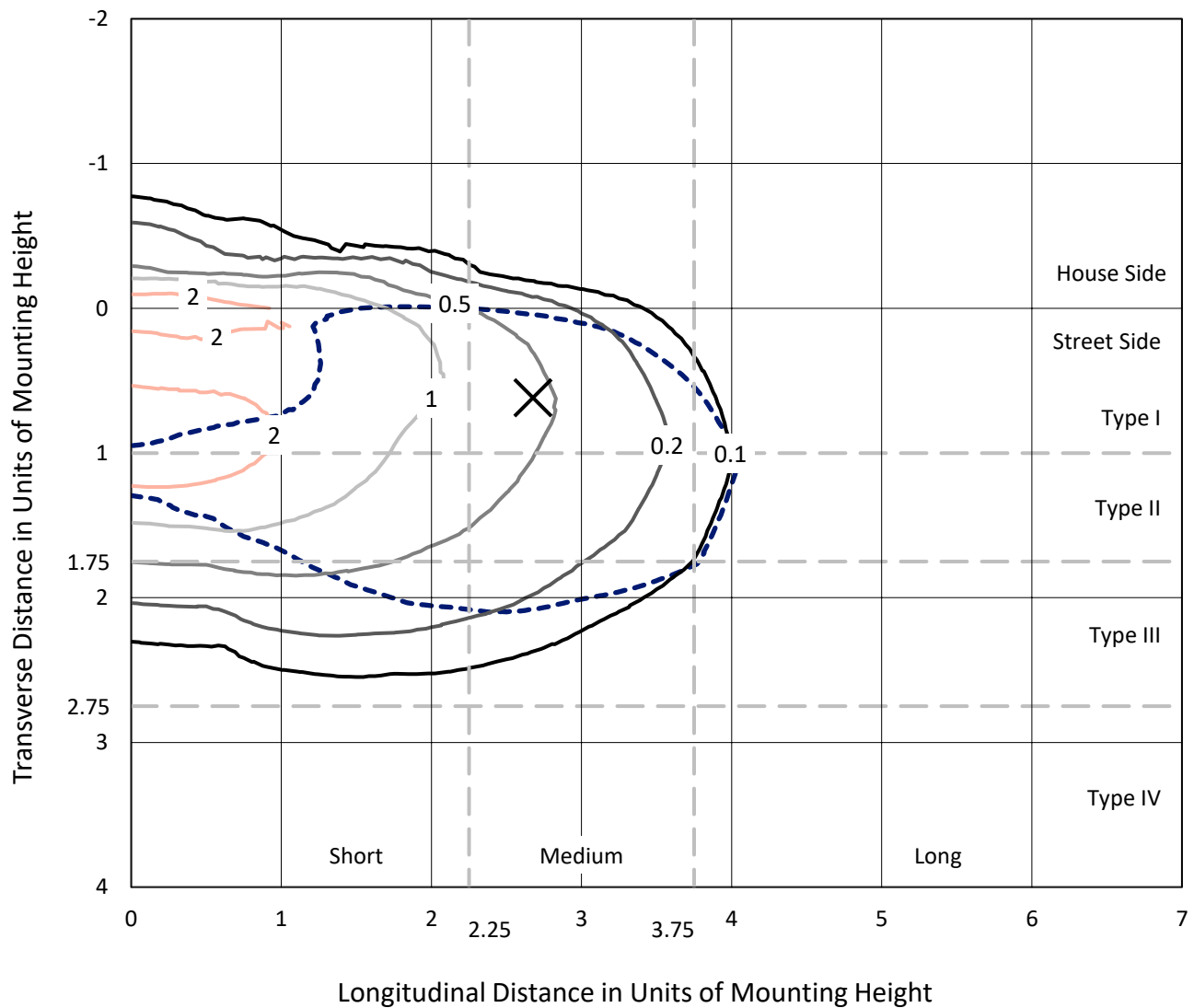


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Iso-Footcandle Lines of Horizontal Illumination

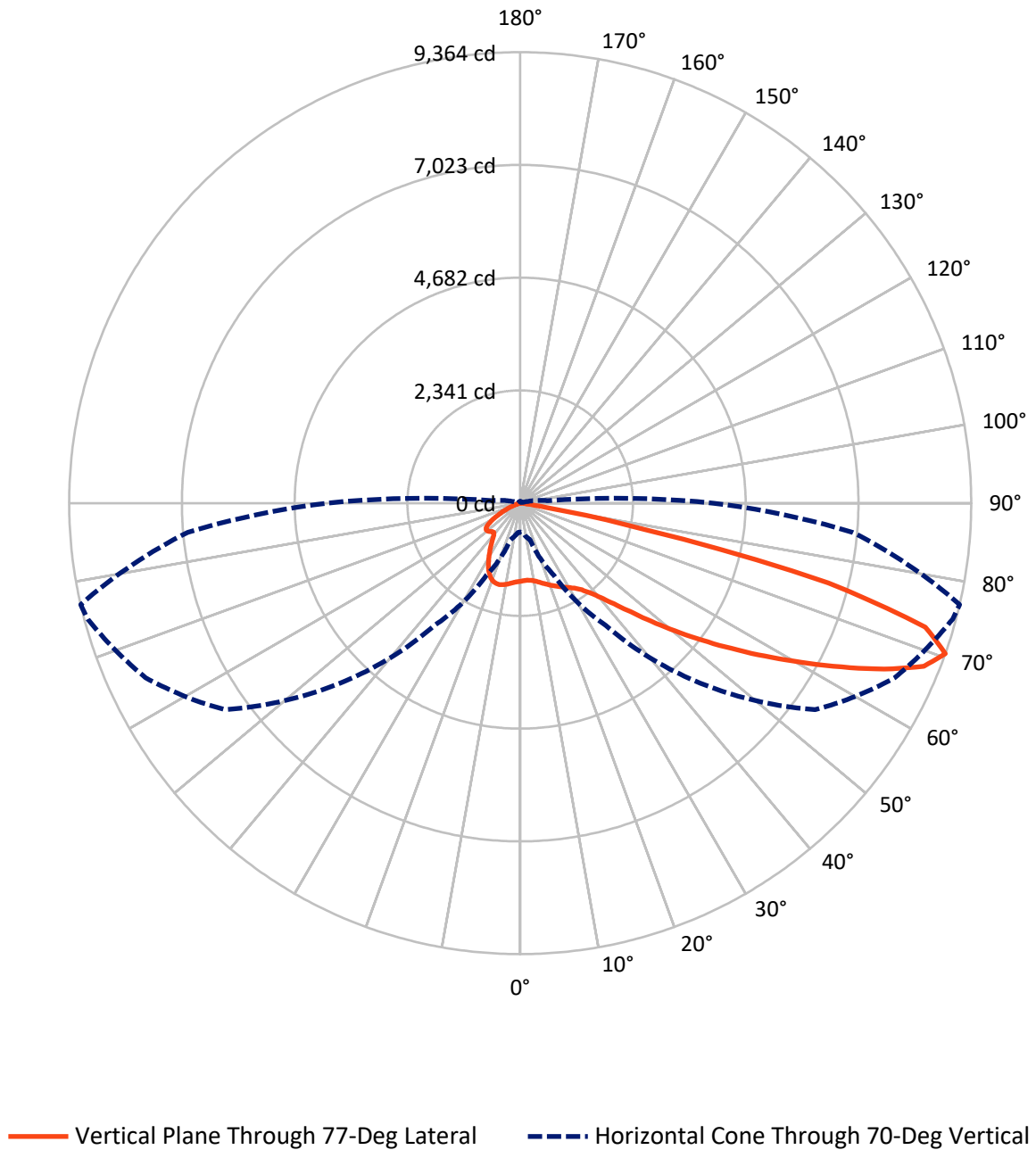
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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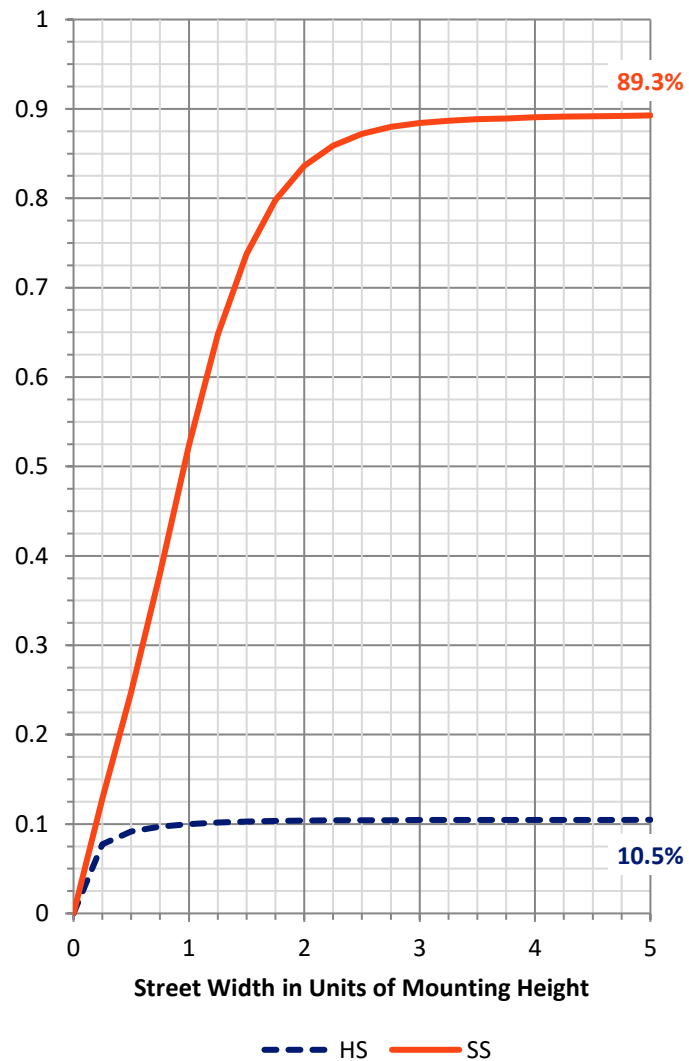
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1095.6	0.0	1095.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	9297.4	0.0	9297.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	10393.0	0.0	10393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	1.3
10°-20°	331.7	3.2
20°-30°	513.0	4.9
30°-40°	930.9	9.0
40°-50°	1757.1	16.9
50°-60°	2538.9	24.4
60°-70°	2702.6	26.0
70°-80°	1432.2	13.8
80°-90°	47.0	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°	10393.0	100.0
0°-180°	10393.0	100.0

Coefficient of Utilization



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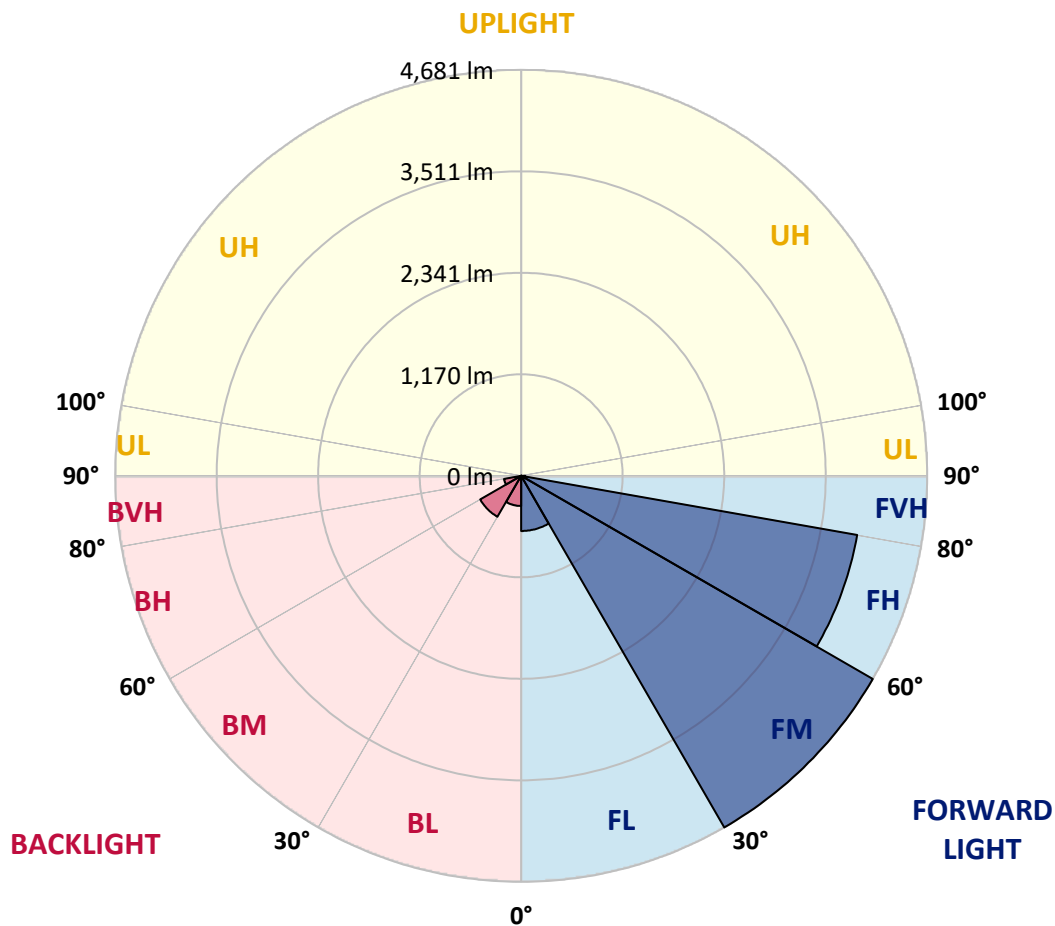
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	636.3	6.1			
FM	(30°-60°)	4681.5	45.0			
FH	(60°-80°)	3933.9	37.9			G2/5000
FVH	(80°-90°)	45.8	0.4			G1/100
BL	(0°-30°)	348.1	3.3	B1/500		
BM	(30°-60°)	545.4	5.2	B1/1000		
BH	(60°-80°)	200.8	1.9	B1/500		G1/500
BVH	(80°-90°)	1.3	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°	65°	75°	77°	85°
0°	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1
2.5°	1522.0	1535.8	1533.8	1543.0	1546.3	1559.4	1572.6	1590.3	1610.0	1609.3	1622.4
5°	1436.0	1449.8	1453.1	1465.6	1481.3	1501.7	1528.6	1564.0	1600.8	1606.7	1632.9
7.5°	1334.3	1348.7	1357.3	1382.2	1411.1	1453.1	1497.1	1548.9	1610.0	1618.5	1669.0
10°	1232.6	1245.7	1256.9	1292.3	1338.2	1400.6	1472.1	1547.0	1629.0	1641.5	1713.0
12.5°	1169.6	1182.0	1194.5	1225.4	1282.5	1358.6	1455.7	1556.1	1660.5	1678.2	1772.7
15°	1147.3	1158.4	1168.3	1195.8	1249.0	1335.6	1452.4	1575.2	1700.5	1724.2	1844.9
17.5°	1150.5	1156.4	1163.0	1184.0	1235.9	1325.1	1458.4	1608.0	1747.8	1768.8	1917.1
20°	1169.6	1172.9	1173.5	1187.9	1233.9	1323.8	1470.2	1639.5	1792.4	1820.6	1988.7
22.5°	1193.9	1195.2	1193.9	1203.7	1246.4	1333.7	1485.9	1677.6	1842.3	1868.6	2060.9
25°	1307.4	1282.5	1251.0	1231.9	1267.4	1352.7	1509.5	1728.8	1896.8	1922.4	2131.1
27.5°	1659.8	1588.3	1475.4	1348.7	1310.7	1380.2	1542.4	1780.6	1951.9	1974.9	2206.6
30°	2232.2	2138.3	1946.7	1661.2	1449.8	1438.0	1585.0	1832.5	2010.3	2035.3	2287.3
32.5°	2805.8	2782.8	2561.6	2166.5	1762.9	1566.6	1655.9	1902.7	2087.8	2107.5	2396.2
35°	3386.0	3339.4	3158.2	2767.7	2245.3	1828.5	1774.0	1994.6	2189.5	2211.8	2555.1
37.5°	3830.3	3802.1	3689.9	3368.3	2817.6	2232.8	1976.2	2137.0	2337.2	2362.1	2758.5
40°	4222.8	4209.7	4171.6	3959.6	3457.5	2761.8	2290.6	2357.5	2541.9	2571.5	3007.9
42.5°	4531.3	4562.1	4583.8	4524.7	4117.1	3365.6	2713.2	2667.3	2827.4	2857.6	3325.6
45°	4847.0	4857.5	4944.7	5030.1	4772.1	3997.0	3189.7	3030.2	3182.5	3219.9	3706.3
47.5°	5049.8	5091.8	5245.3	5395.6	5322.8	4623.1	3701.7	3458.8	3594.0	3664.3	4132.9
50°	5064.9	5144.3	5355.6	5617.5	5723.8	5219.1	4258.2	3947.1	4090.9	4168.3	4588.4
52.5°	4813.5	4936.9	5264.4	5647.7	5940.4	5723.8	4833.8	4435.4	4619.9	4720.9	5060.9
55°	3690.5	3852.0	4921.1	5483.6	5948.9	6106.4	5394.3	4944.1	5209.2	5323.4	5571.5
57.5°	3215.3	3296.7	3869.0	5198.7	5790.7	6260.7	5901.0	5428.5	5850.5	5992.2	6053.9
60°	2675.2	2782.2	3244.9	4732.8	5576.1	6275.8	6348.6	6053.3	6545.5	6705.0	6496.3
62.5°	1818.0	1934.2	2394.3	3932.0	5282.8	6268.6	6715.5	6696.5	7318.0	7489.3	6871.1
65°	1126.3	1199.1	1502.3	3210.7	4872.5	6276.4	7099.5	7477.5	8133.2	8307.1	7161.2
67.5°	890.0	923.4	1081.6	2465.2	4165.7	6099.2	7482.8	8211.9	8900.4	9038.2	7249.8
70°	597.9	618.3	786.9	1652.6	3099.2	5281.4	7475.5	8580.8	9295.5	9364.4	6926.8
72.5°	315.0	330.8	460.1	765.3	1871.8	3754.2	6301.4	8139.7	8902.4	8798.7	5920.7
75°	157.5	183.8	309.8	388.5	799.4	2093.7	3913.0	6417.5	7006.9	6605.2	3798.8
77.5°	119.5	144.4	256.0	256.0	278.3	704.9	1657.2	3500.2	3228.5	2688.3	1115.1
80°	76.1	98.4	223.8	193.6	116.2	179.2	431.9	980.5	685.9	521.8	202.8
82.5°	44.6	64.3	186.4	128.0	65.0	66.3	122.1	208.7	177.9	138.5	62.4
85°	17.7	42.0	128.0	50.5	25.6	16.4	36.8	44.6	36.8	27.6	15.8
87.5°	0.0	9.8	22.3	0.0	2.0	1.3	2.6	3.3	3.3	2.6	5.3
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°	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1	1621.1
2.5°	1628.3	1629.7	1633.6	1634.2	1625.1	1613.2	1608.7	1606.7	1598.8	1598.1	1599.5
5°	1648.0	1653.9	1648.0	1631.0	1590.3	1533.2	1489.9	1454.4	1422.3	1412.4	1406.5
7.5°	1687.4	1693.3	1675.6	1608.7	1506.3	1392.7	1290.3	1218.1	1153.2	1128.9	1119.0
10°	1743.9	1751.7	1695.9	1560.7	1379.6	1197.1	1023.9	901.8	806.6	767.9	751.5
12.5°	1814.7	1818.0	1707.1	1487.9	1214.9	954.3	708.8	578.2	493.6	462.1	452.2
15°	1892.8	1888.2	1708.4	1388.8	990.4	674.7	462.7	380.0	345.9	335.4	335.4
17.5°	1974.9	1955.8	1682.2	1245.7	744.3	461.4	343.3	323.6	317.7	315.0	314.4
20°	2055.6	2012.9	1634.2	1058.7	534.2	344.6	311.8	305.8	302.6	301.3	299.9
22.5°	2129.1	2056.3	1552.2	841.4	387.9	304.5	294.7	289.4	283.5	280.9	280.3
25°	2200.7	2081.2	1436.7	638.6	310.4	284.8	277.0	267.1	259.2	256.0	254.7
27.5°	2270.2	2097.0	1292.3	472.6	277.0	266.5	252.0	238.2	232.3	231.0	229.7
30°	2344.4	2102.2	1128.2	352.4	256.6	243.5	222.5	206.7	203.5	204.1	204.1
32.5°	2435.0	2110.1	962.8	288.8	239.6	215.9	191.0	174.6	172.0	174.6	173.9
35°	2543.3	2125.8	803.3	265.8	224.5	187.7	160.8	147.0	144.4	146.4	145.7
37.5°	2690.3	2151.4	654.4	261.2	212.0	164.1	135.2	124.0	124.0	124.7	124.0
40°	2885.9	2219.7	521.1	257.9	205.4	146.4	114.2	109.6	111.6	112.9	112.9
42.5°	3124.1	2364.7	431.2	254.0	198.2	138.5	103.7	101.7	105.0	106.3	106.3
45°	3391.2	2548.5	399.7	247.4	191.6	143.7	99.1	96.5	100.4	101.1	101.7
47.5°	3667.5	2728.3	395.8	240.2	185.1	151.6	97.8	91.9	96.5	97.1	97.8
50°	3947.1	2845.8	399.7	229.1	174.6	151.6	98.4	87.3	91.2	93.2	93.9
52.5°	4228.7	2899.6	397.1	204.8	156.2	142.4	98.4	83.4	87.3	88.6	88.6
55°	4501.7	2889.1	357.0	168.7	132.6	126.0	95.8	80.1	82.7	83.4	83.4
57.5°	4717.7	2742.8	282.9	131.3	107.6	105.0	87.3	76.1	78.1	77.4	77.4
60°	4830.5	2421.2	202.1	101.1	84.7	82.7	76.8	70.9	72.2	68.9	68.3
62.5°	4831.9	1995.9	135.2	80.1	67.6	65.6	65.6	63.7	62.4	55.8	53.8
65°	4728.8	1524.0	89.9	63.7	54.5	51.2	55.1	54.5	49.9	40.7	39.4
67.5°	4495.2	998.9	68.3	49.9	42.0	40.0	44.0	45.9	42.7	34.1	33.5
70°	4014.7	581.5	56.4	38.7	31.5	29.5	35.4	39.4	35.4	27.6	26.3
72.5°	3334.8	313.7	45.9	28.9	21.7	19.7	28.2	32.2	28.2	20.3	19.7
75°	2163.9	168.0	35.4	19.0	11.2	12.5	21.0	23.6	19.7	13.1	11.8
77.5°	726.6	74.2	22.3	9.2	5.3	5.3	12.5	14.4	9.2	4.6	3.9
80°	162.1	30.8	9.2	3.9	2.0	2.0	2.6	2.6	1.3	0.0	0.0
82.5°	53.2	12.5	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.3	4.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	0.7	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)