

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: P945916

Luminaire Tested: **GALN-SB1D-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1D-722-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6427 lumens
Efficiency: N/A
Efficacy: 80.7 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): 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

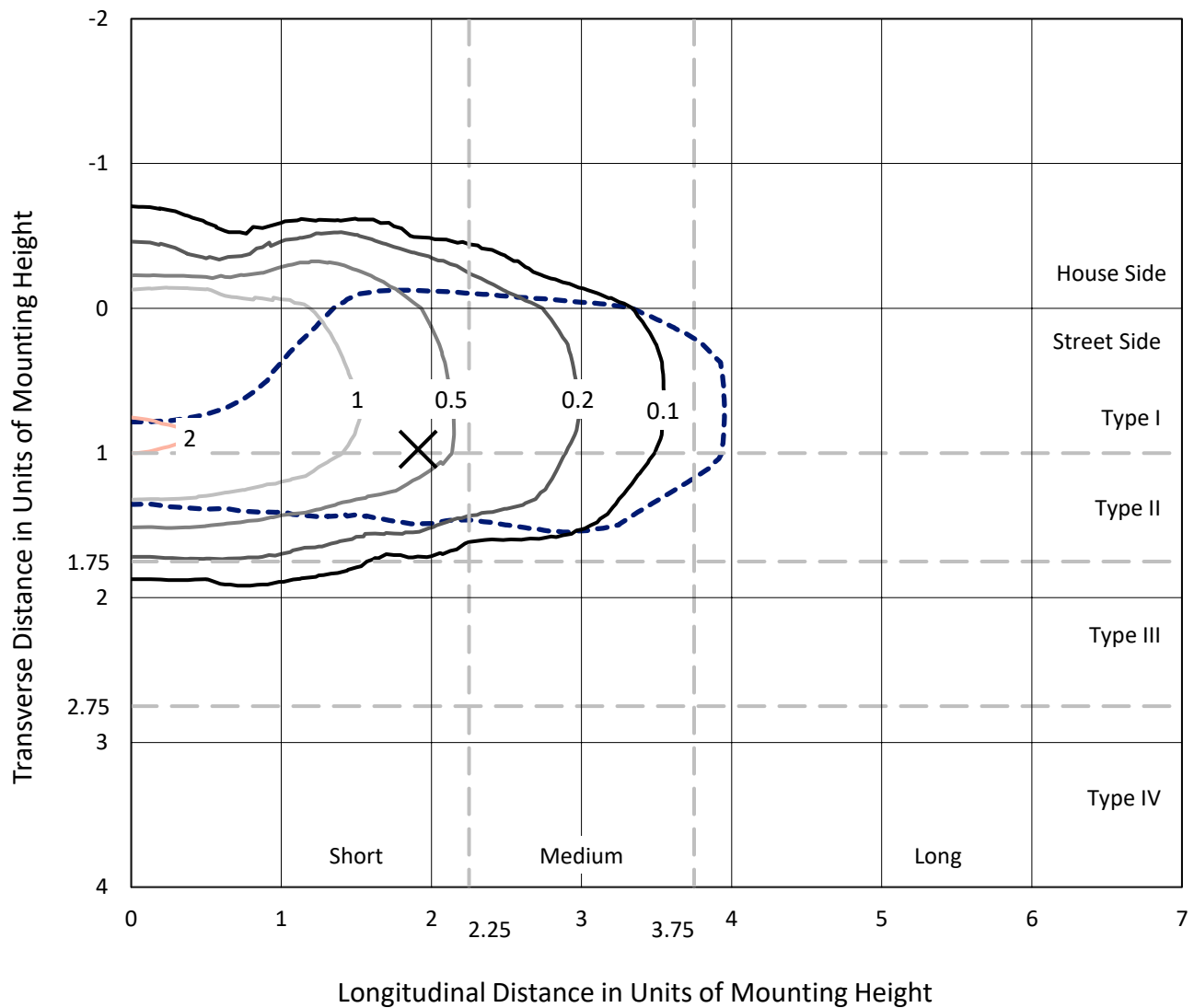


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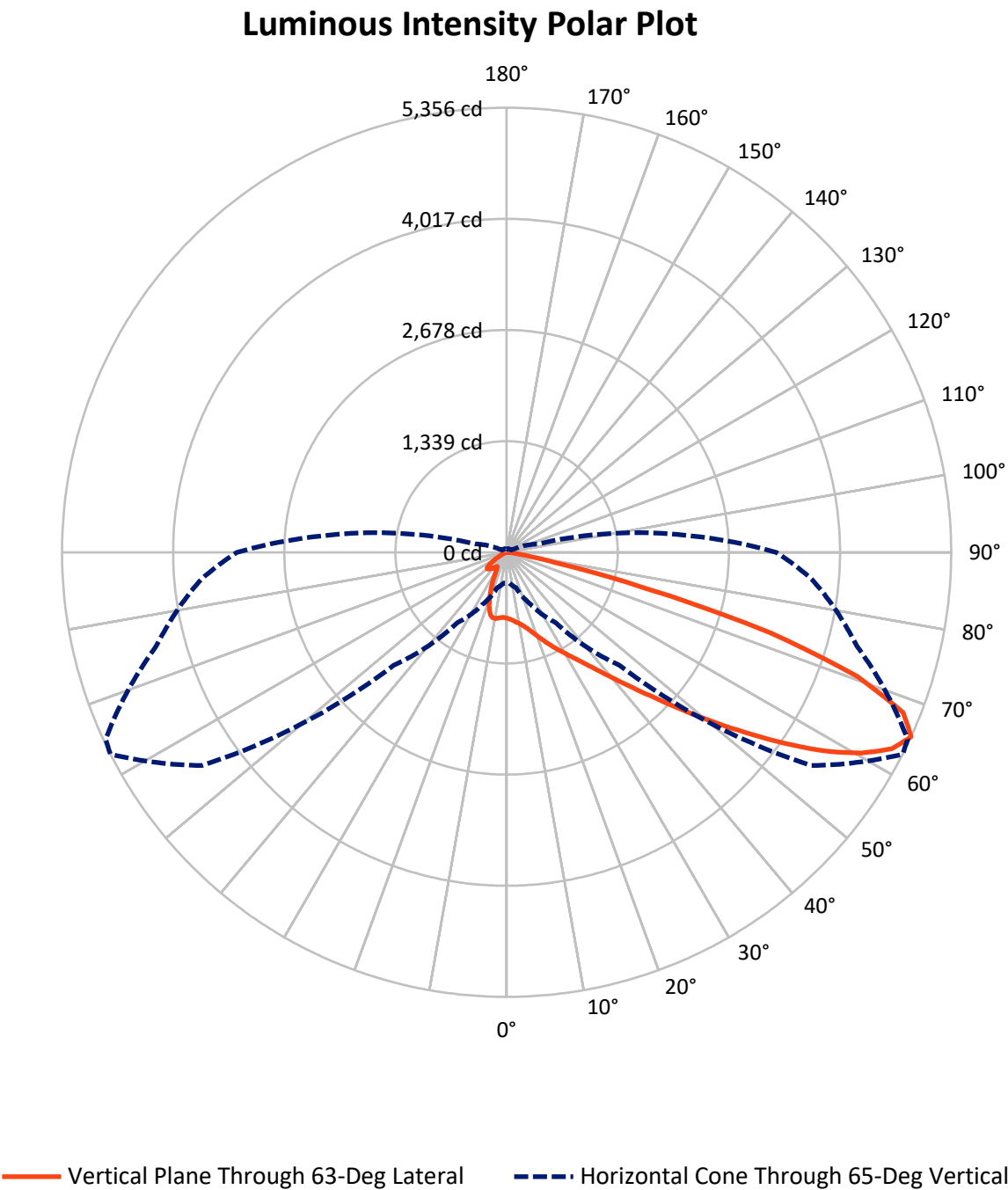
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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

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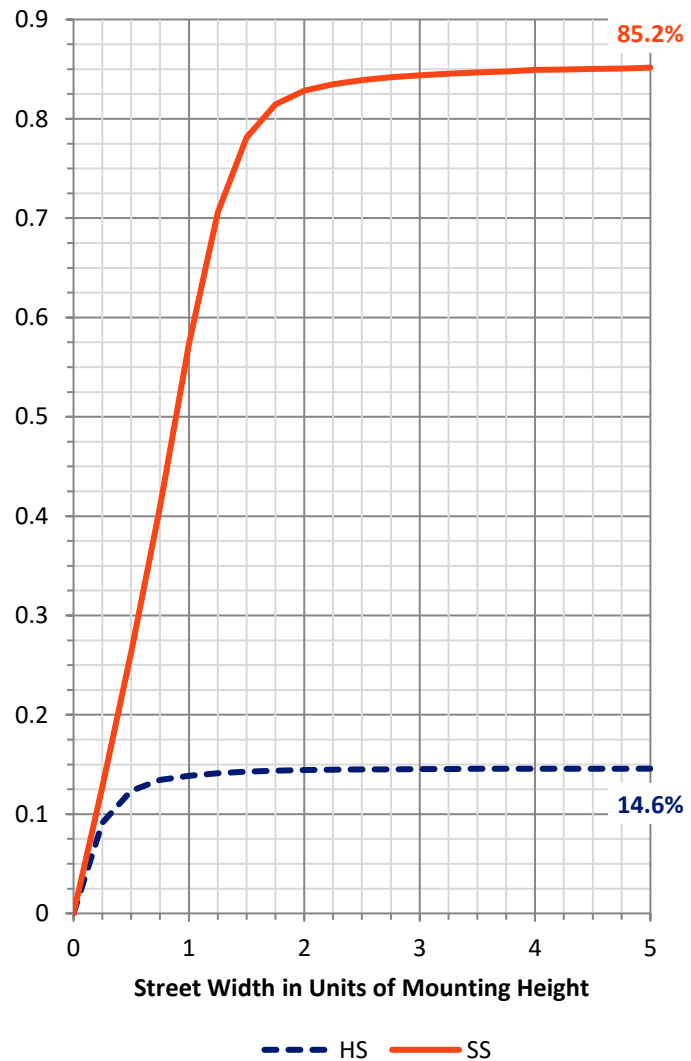
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	944.7	0.0	944.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5482.3	0.0	5482.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	6427.0	0.0	6427.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	1.2
10°-20°	207.4	3.2
20°-30°	361.1	5.6
30°-40°	650.8	10.1
40°-50°	1290.7	20.1
50°-60°	1758.2	27.4
60°-70°	1403.4	21.8
70°-80°	635.1	9.9
80°-90°	45.6	0.7
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°	6427.0	100.0
0°-180°	6427.0	100.0

Coefficient of Utilization



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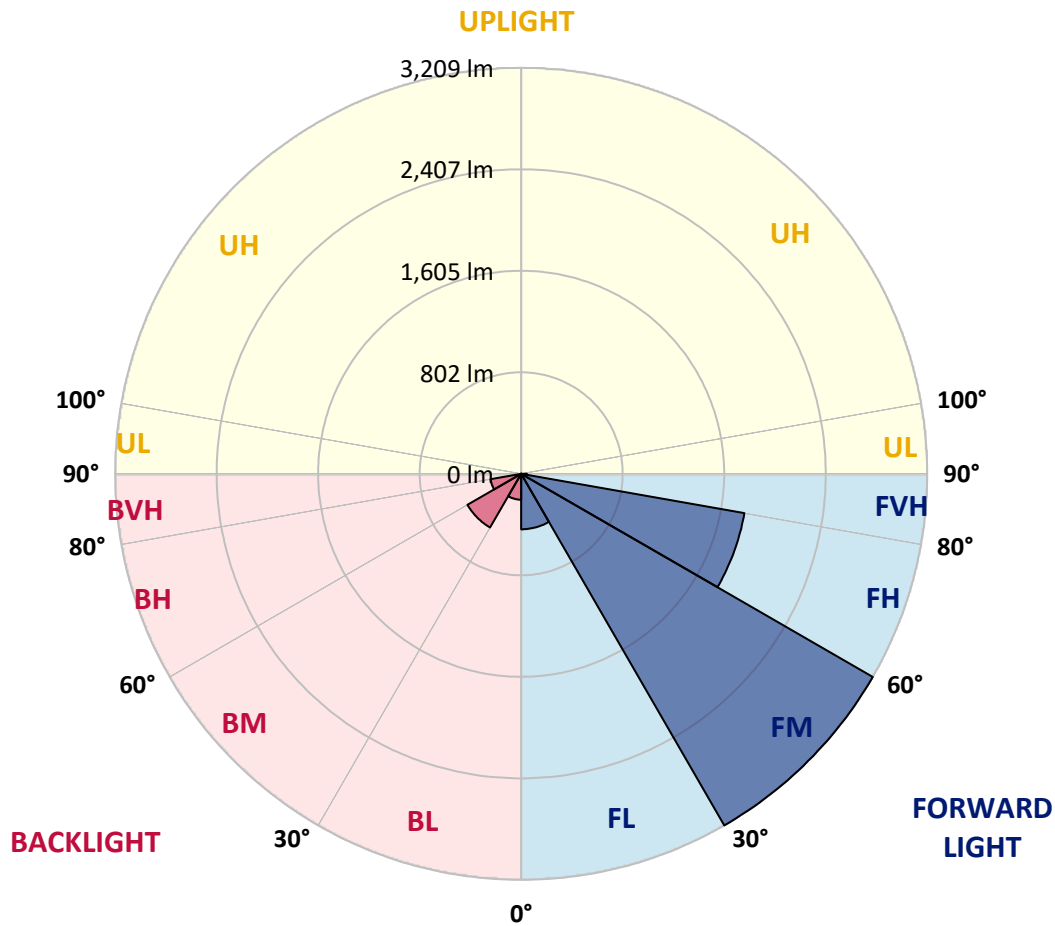
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	438.7	6.8			
FM	(30°-60°)	3209.5	49.9			
FH	(60°-80°)	1791.8	27.9			G1/1800
FVH	(80°-90°)	42.3	0.7			G1/100
BL	(0°-30°)	204.5	3.2	B1/500		
BM	(30°-60°)	490.2	7.6	B1/1000		
BH	(60°-80°)	246.6	3.8	B1/500		G1/500
BVH	(80°-90°)	3.4	0.1			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°	63°	65°	75°	85°
0°	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2
2.5°	811.8	809.6	812.7	811.3	810.5	808.7	807.8	806.9	805.2	803.8	798.5
5°	814.0	812.7	815.8	818.4	821.1	823.7	825.0	826.8	825.0	821.5	816.2
7.5°	795.4	794.5	801.2	809.1	821.1	831.2	842.3	848.5	848.9	847.6	841.8
10°	794.1	791.9	798.5	808.2	823.7	841.8	861.3	874.6	876.3	882.1	875.9
12.5°	814.9	812.7	822.0	832.6	848.5	867.5	891.4	909.9	912.6	920.6	916.1
15°	849.8	846.7	857.3	871.0	891.4	913.0	938.2	955.0	957.3	967.0	959.0
17.5°	890.5	887.4	899.8	914.4	936.5	966.1	995.3	1013.8	1016.5	1022.7	1008.1
20°	942.7	938.7	948.4	961.7	985.1	1020.5	1055.4	1081.9	1081.5	1081.5	1057.6
22.5°	1003.2	997.0	1005.4	1016.1	1038.2	1081.1	1127.5	1158.9	1158.9	1146.5	1107.1
25°	1068.2	1062.0	1071.3	1081.1	1100.5	1149.1	1203.5	1242.4	1244.2	1223.0	1160.2
27.5°	1149.6	1141.6	1148.7	1160.2	1171.7	1221.2	1285.8	1330.9	1331.7	1299.0	1210.6
30°	1306.1	1283.6	1261.4	1249.1	1254.4	1303.5	1372.4	1422.4	1426.8	1381.7	1265.4
32.5°	1592.6	1588.2	1510.4	1408.7	1355.6	1391.9	1469.3	1529.4	1532.0	1474.1	1336.6
35°	2037.9	2032.6	1907.4	1713.8	1540.9	1510.4	1586.9	1658.1	1656.3	1590.8	1429.0
37.5°	2569.3	2564.5	2399.5	2140.4	1860.6	1689.4	1738.5	1813.2	1824.3	1738.5	1548.4
40°	3023.4	3005.3	2900.9	2651.1	2285.0	1986.6	1954.3	2003.8	2015.3	1913.6	1700.1
42.5°	3367.4	3351.9	3298.9	3142.8	2798.8	2426.1	2208.5	2227.5	2240.4	2118.3	1874.3
45°	3545.6	3542.0	3563.3	3548.7	3322.3	2965.5	2572.0	2492.8	2497.7	2345.2	2071.9
47.5°	3570.8	3569.0	3665.8	3802.9	3772.4	3573.9	3038.4	2823.6	2806.3	2601.2	2286.8
50°	3422.2	3418.7	3604.4	3861.3	4073.1	4085.0	3568.1	3196.3	3158.3	2866.0	2511.0
52.5°	2947.8	2946.9	3252.0	3679.6	4178.7	4532.5	4091.6	3605.7	3542.0	3146.3	2747.9
55°	2268.2	2284.6	2634.3	3139.7	3986.0	4747.8	4561.6	4060.2	3962.5	3428.4	2966.4
57.5°	1606.8	1630.6	1976.4	2426.5	3388.2	4620.4	4879.5	4515.7	4410.4	3709.6	3187.9
60°	863.1	884.3	1230.5	1767.7	2520.7	4145.6	5047.1	4910.9	4811.5	3976.7	3387.7
62.5°	514.2	521.3	664.5	1141.2	1704.9	3167.1	4975.9	5212.0	5130.2	4200.8	3561.5
65°	369.2	370.5	442.6	696.8	1035.1	1924.2	4476.7	5356.2	5331.0	4369.7	3690.2
67.5°	310.8	309.9	340.0	462.9	705.2	963.9	3431.1	5152.3	5259.3	4476.7	3763.1
70°	266.6	267.9	303.3	339.1	530.1	545.6	1705.8	4486.0	4714.2	4505.0	3758.7
72.5°	198.5	202.9	235.7	309.1	400.1	375.4	588.9	3326.3	3738.8	4244.6	3563.7
75°	140.2	142.4	165.8	260.0	298.4	273.2	300.7	1719.5	2248.3	3254.2	2916.8
77.5°	107.9	111.9	125.6	181.7	294.0	191.9	183.9	595.1	914.4	1965.8	1999.8
80°	58.4	65.4	90.6	131.3	206.5	135.7	91.1	237.0	309.9	919.2	771.1
82.5°	30.1	33.6	63.2	94.6	117.6	118.5	45.1	98.6	127.8	283.9	105.7
85°	11.9	14.6	42.4	52.2	60.6	58.4	20.3	39.8	46.0	78.7	32.3
87.5°	2.7	4.4	15.5	11.9	11.5	12.4	4.9	9.3	8.8	9.3	5.7
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°	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2
2.5°	798.1	796.3	791.4	786.1	779.9	776.4	774.2	773.8	770.7	768.5	770.7
5°	811.3	809.6	800.3	789.2	777.3	768.0	759.2	751.2	739.7	737.5	736.6
7.5°	837.9	833.0	818.0	802.9	780.4	753.4	720.7	683.1	649.5	639.3	634.5
10°	870.6	864.0	844.9	818.4	768.5	695.1	615.9	542.5	484.2	467.8	461.6
12.5°	907.7	902.0	876.8	827.7	718.5	585.4	464.3	373.2	316.6	302.4	298.4
15°	951.9	943.5	908.6	813.6	629.2	444.8	318.8	264.8	244.5	241.9	239.2
17.5°	998.8	985.1	936.9	762.7	508.9	316.1	246.3	230.8	222.0	219.3	218.0
20°	1041.7	1024.0	953.7	685.8	380.2	246.3	220.6	210.5	202.5	199.4	197.6
22.5°	1084.6	1059.4	953.7	581.0	285.2	218.4	202.5	193.2	183.9	180.0	177.7
25°	1129.2	1095.6	936.9	464.3	229.5	200.3	185.3	175.1	167.1	162.3	160.5
27.5°	1172.6	1126.2	898.4	353.7	204.3	184.4	169.3	159.6	152.1	148.6	148.6
30°	1213.7	1156.2	844.5	268.4	187.9	168.9	154.8	146.4	138.8	135.3	135.7
32.5°	1269.4	1194.2	787.0	220.2	173.8	154.3	141.5	133.5	126.9	124.2	124.2
35°	1346.8	1250.4	737.5	216.2	161.8	142.4	129.5	122.0	115.4	113.2	113.2
37.5°	1456.4	1341.0	711.4	242.7	152.1	131.8	119.8	111.9	105.7	103.9	103.5
40°	1591.7	1464.0	725.6	269.3	145.5	122.5	111.0	103.0	97.7	95.5	95.1
42.5°	1752.2	1615.6	803.8	289.6	141.0	114.5	102.6	93.7	90.2	89.3	89.3
45°	1936.6	1782.3	923.6	311.3	134.0	107.0	94.2	87.5	84.9	84.5	84.0
47.5°	2146.2	1965.3	1062.5	338.2	126.9	99.9	87.5	83.1	80.9	80.0	80.0
50°	2354.0	2149.7	1205.3	353.3	121.1	93.3	82.2	78.7	76.9	76.5	76.5
52.5°	2571.5	2339.4	1320.7	339.1	116.3	88.0	77.8	75.2	73.4	73.0	73.0
55°	2778.9	2492.8	1340.6	287.8	106.6	82.7	73.0	71.6	69.4	69.4	69.0
57.5°	2957.5	2569.8	1200.0	211.3	96.8	74.7	68.1	66.8	65.0	64.6	64.1
60°	3121.6	2547.7	926.3	142.4	86.2	66.8	61.9	61.0	59.2	57.0	56.6
62.5°	3214.0	2450.4	633.6	92.9	75.6	58.4	54.8	54.4	50.4	46.0	45.1
65°	3248.9	2250.5	395.3	67.6	63.2	50.0	47.3	46.4	40.7	35.8	35.4
67.5°	3218.4	1921.6	199.4	53.5	50.0	41.6	38.9	38.9	34.9	30.5	30.1
70°	3096.4	1440.5	84.0	42.9	38.5	31.8	31.8	33.6	29.6	24.8	24.3
72.5°	2831.5	969.2	44.7	32.7	28.7	22.5	26.1	27.4	23.4	18.6	18.6
75°	2251.0	591.2	31.0	24.3	18.1	15.9	19.9	20.8	15.9	12.4	11.9
77.5°	1539.6	339.6	20.8	15.5	11.5	9.3	13.7	12.8	8.4	5.7	6.2
80°	676.0	141.5	11.9	7.1	4.4	3.5	4.9	3.5	2.7	1.8	1.8
82.5°	79.1	33.2	4.4	2.7	1.8	0.9	0.4	0.0	0.0	0.0	0.0
85°	16.4	4.0	2.2	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	0.9	0.4	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)