

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: P946298

Luminaire Tested: **GALN-SB2A-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6409 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 57.3
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

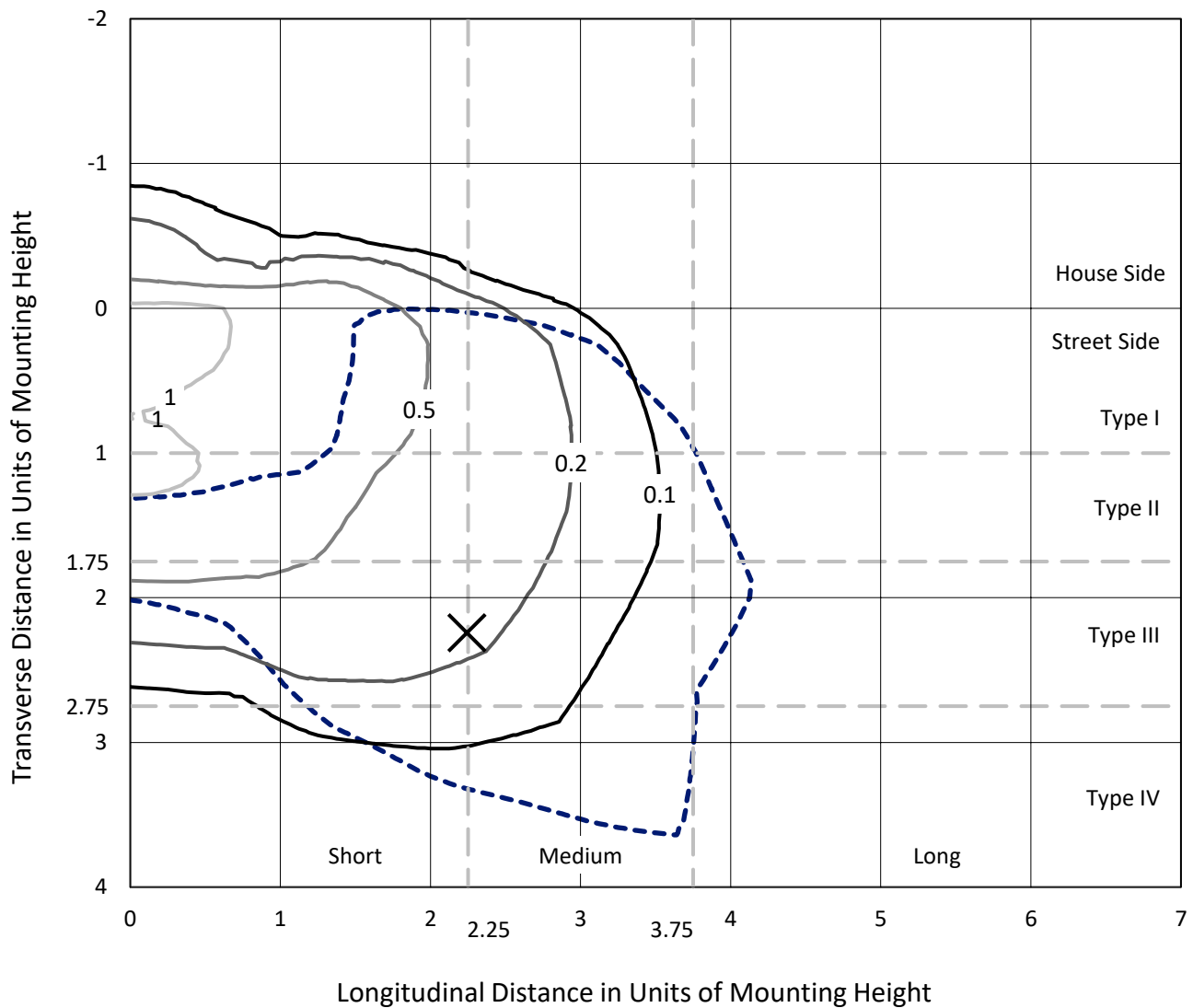


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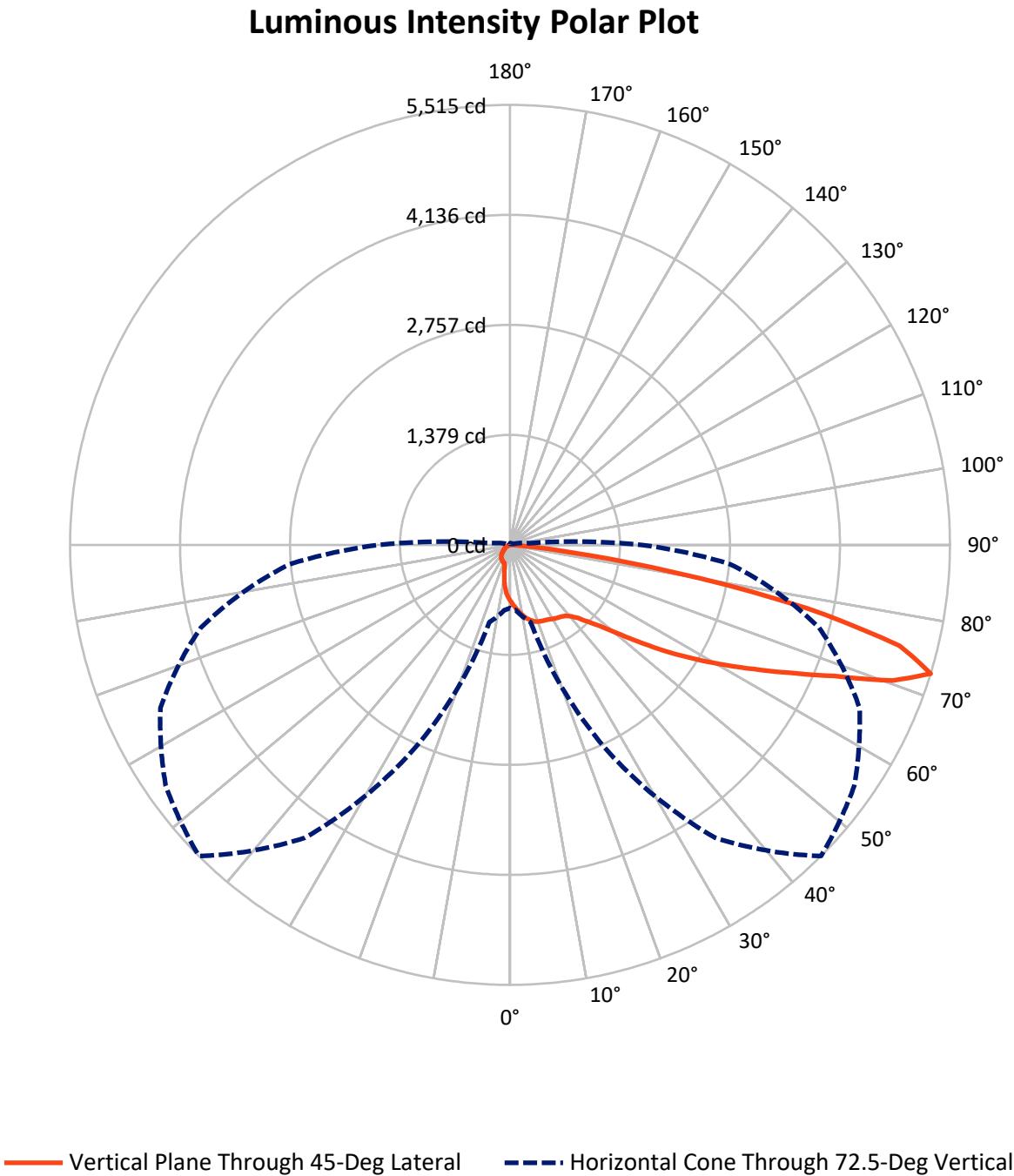
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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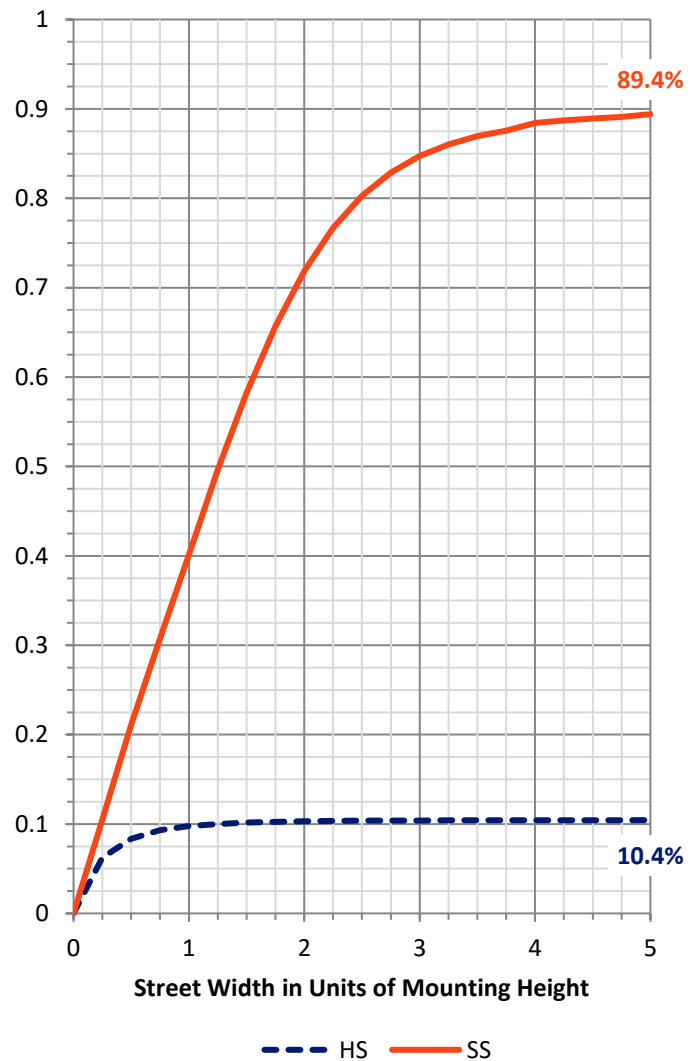
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	673.4	0.0	673.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	5735.6	0.0	5735.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	6409.0	0.0	6409.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	1.0
10°-20°	193.3	3.0
20°-30°	317.5	5.0
30°-40°	450.3	7.0
40°-50°	744.3	11.6
50°-60°	1337.0	20.9
60°-70°	1856.5	29.0
70°-80°	1346.6	21.0
80°-90°	97.4	1.5
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°	6409.0	100.0
0°-180°	6409.0	100.0

Coefficient of Utilization



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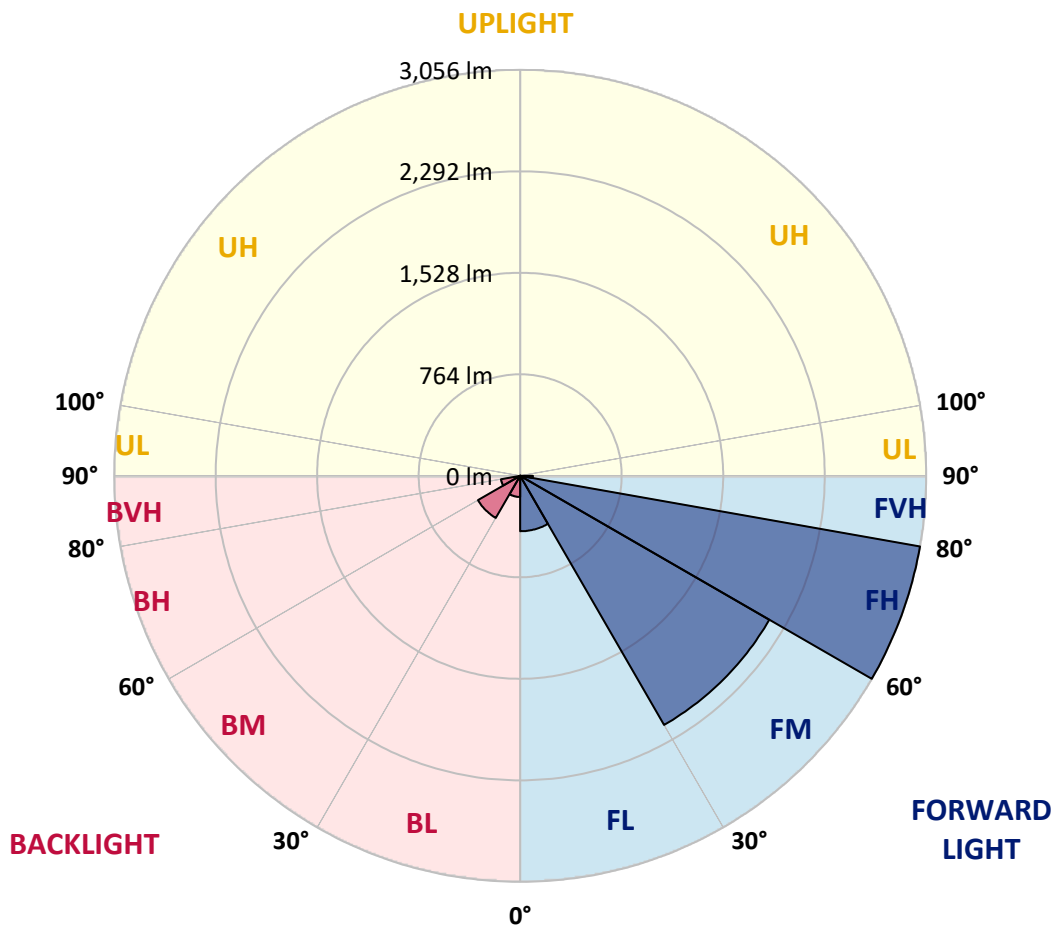
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	417.5	6.5			
FM	(30°-60°)	2165.3	33.8			
FH	(60°-80°)	3056.3	47.7			G2/5000
FVH	(80°-90°)	96.5	1.5			G1/100
BL	(0°-30°)	159.5	2.5	B1/500		
BM	(30°-60°)	366.2	5.7	B1/1000		
BH	(60°-80°)	146.8	2.3	B1/500		G1/500
BVH	(80°-90°)	0.8	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1
2.5°	766.9	768.2	767.3	762.1	753.3	748.5	745.9	737.1	731.4	721.4	710.9
5°	837.3	842.5	839.5	829.0	812.4	800.5	797.0	779.1	762.9	744.1	722.2
7.5°	912.1	914.7	909.0	895.5	873.2	853.0	850.0	825.0	799.2	770.4	740.6
10°	976.8	979.9	971.2	951.5	926.1	901.2	896.8	869.2	838.6	803.2	765.1
12.5°	1031.1	1034.1	1022.8	999.2	971.2	945.3	941.0	912.1	878.4	839.0	791.8
15°	1072.2	1077.9	1062.6	1037.2	1007.0	981.2	979.0	950.6	917.8	874.0	823.7
17.5°	1096.3	1102.0	1087.5	1056.9	1031.1	1009.2	1006.6	983.0	952.3	910.3	854.8
20°	1100.2	1105.5	1090.1	1063.5	1042.0	1024.5	1023.2	1006.2	983.8	943.6	888.5
22.5°	1088.4	1095.0	1081.0	1059.5	1044.6	1035.5	1033.7	1024.1	1011.4	977.3	920.0
25°	1076.1	1081.4	1070.9	1052.1	1044.2	1043.3	1044.6	1042.9	1040.3	1011.4	956.7
27.5°	1075.3	1081.0	1069.1	1051.2	1046.8	1056.0	1057.3	1065.6	1067.8	1042.5	992.2
30°	1082.7	1086.6	1075.3	1056.5	1054.3	1075.3	1075.7	1090.6	1094.1	1068.7	1027.2
32.5°	1098.9	1103.3	1091.9	1064.3	1061.3	1090.6	1091.9	1111.6	1117.3	1096.7	1063.9
35°	1137.0	1142.2	1129.1	1086.2	1075.3	1105.0	1109.0	1132.1	1143.5	1126.5	1102.0
37.5°	1231.9	1216.6	1198.6	1130.4	1107.2	1127.8	1134.3	1161.5	1181.6	1161.9	1147.5
40°	1467.7	1419.6	1363.6	1205.6	1163.2	1176.3	1181.6	1208.7	1236.3	1217.0	1210.0
42.5°	1821.6	1764.7	1674.6	1378.9	1247.6	1254.2	1258.1	1281.8	1320.7	1305.4	1307.1
45°	2137.0	2116.4	2024.6	1674.6	1405.6	1373.2	1378.0	1390.2	1447.5	1441.9	1453.2
47.5°	2379.3	2367.5	2296.7	2014.1	1672.4	1518.9	1532.4	1538.1	1620.8	1640.9	1671.5
50°	2565.7	2561.3	2497.9	2315.9	2021.1	1733.6	1738.5	1726.2	1850.0	1899.9	1958.1
52.5°	2741.5	2756.4	2709.6	2596.3	2393.3	2014.9	2014.1	1956.3	2123.4	2198.7	2298.0
55°	2900.3	2905.6	2910.4	2882.4	2767.8	2335.1	2326.8	2232.3	2440.6	2518.4	2626.1
57.5°	3049.5	3051.7	3094.6	3151.9	3157.6	2679.0	2663.7	2550.4	2787.0	2842.6	2908.7
60°	3149.7	3159.8	3250.3	3409.5	3479.1	3033.8	3025.5	2910.0	3139.6	3165.4	3153.2
62.5°	3005.3	3066.6	3294.9	3610.8	3782.7	3427.0	3423.1	3314.6	3510.6	3489.6	3384.6
65°	2432.7	2536.4	2938.0	3746.8	4080.6	3866.3	3871.9	3756.4	3891.6	3823.4	3572.7
67.5°	1701.7	1811.1	2286.2	3757.8	4413.5	4382.0	4414.8	4233.7	4296.3	4143.2	3617.3
70°	1176.8	1233.2	1542.5	3522.4	4672.9	5092.4	5091.6	4819.9	4698.7	4288.8	3389.9
72.5°	791.4	820.7	1001.8	2794.5	4482.2	5514.6	5489.2	5267.9	4834.3	4011.0	2769.5
75°	333.8	355.2	463.7	1570.5	3546.0	5045.2	4976.5	4655.4	4295.4	3158.4	1728.0
77.5°	105.9	115.1	182.9	562.1	1953.2	3792.3	3719.7	2907.3	2878.9	1584.5	631.7
80°	50.3	58.6	102.8	225.7	768.6	2062.6	2052.6	1318.9	1238.4	427.8	126.9
82.5°	21.9	25.8	56.9	120.7	343.8	735.8	750.7	448.8	371.4	162.3	38.9
85°	7.0	9.2	26.2	55.6	145.2	182.9	180.7	106.7	149.6	88.4	13.6
87.5°	0.0	0.0	8.7	12.7	14.9	10.5	11.8	9.2	41.6	24.5	4.8
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°	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1
2.5°	705.6	698.6	686.4	675.0	664.9	654.9	648.7	640.0	639.1	639.1	641.3
5°	710.4	699.1	677.2	654.0	627.3	601.9	576.6	552.1	544.2	538.5	541.1
7.5°	724.4	706.5	671.9	627.8	577.0	521.4	482.5	440.5	424.3	415.6	416.9
10°	744.6	720.1	667.6	590.1	507.9	432.2	376.7	331.2	313.7	306.2	306.2
12.5°	766.9	736.7	659.7	543.3	432.2	341.7	287.4	266.4	263.8	263.8	263.8
15°	793.5	756.8	646.1	488.2	353.0	270.3	251.1	252.0	254.6	256.4	256.4
17.5°	821.1	778.2	624.7	426.5	283.0	243.2	243.7	245.0	247.2	248.9	248.9
20°	850.9	799.7	596.3	360.9	242.8	235.4	236.7	238.0	239.7	240.6	241.0
22.5°	882.8	819.8	562.6	296.6	229.2	228.8	229.2	230.5	232.7	232.7	233.6
25°	916.9	842.1	524.1	249.8	222.2	222.2	223.1	224.0	225.7	225.7	226.2
27.5°	951.9	862.7	483.4	225.3	216.1	215.7	215.7	217.0	217.9	218.3	218.7
30°	990.4	886.7	442.7	220.0	211.3	209.1	207.8	208.7	209.5	210.0	210.9
32.5°	1029.8	909.9	406.4	222.2	206.5	202.5	198.2	197.3	197.3	199.0	200.4
35°	1073.5	935.3	378.4	229.7	203.9	192.9	185.9	182.0	182.4	185.0	186.4
37.5°	1126.0	965.9	357.8	236.2	202.1	182.0	170.6	165.8	162.7	165.8	164.9
40°	1194.7	1011.0	343.0	241.5	199.9	169.3	154.0	146.1	140.4	142.2	141.3
42.5°	1295.7	1081.8	337.3	241.9	195.1	154.4	136.9	126.4	118.1	118.6	116.8
45°	1437.5	1193.8	366.6	236.2	184.6	138.2	119.0	105.0	99.7	98.4	96.7
47.5°	1631.7	1357.0	434.4	224.4	169.3	122.5	101.5	89.7	85.7	83.6	82.2
50°	1892.0	1566.5	509.6	211.3	154.0	107.6	87.1	79.6	77.0	74.8	74.4
52.5°	2193.9	1779.1	571.3	198.2	138.7	94.5	77.9	73.5	71.3	69.6	69.1
55°	2470.8	1925.7	567.8	184.2	123.8	84.0	71.3	68.7	66.1	64.3	63.4
57.5°	2643.1	1946.2	468.1	168.9	106.7	75.7	65.2	63.4	60.4	58.2	57.7
60°	2722.3	1829.0	328.1	148.7	89.7	67.8	58.6	57.7	53.8	50.7	49.9
62.5°	2736.7	1611.2	218.7	123.8	74.8	60.4	52.1	50.7	45.5	40.2	37.6
65°	2678.1	1299.7	151.4	96.7	63.9	52.5	44.6	42.0	36.3	31.1	29.3
67.5°	2492.6	912.5	105.4	69.6	54.2	41.6	35.4	34.6	30.2	25.8	24.5
70°	2152.7	520.1	70.4	52.1	42.9	28.4	28.0	28.9	24.5	21.0	19.2
72.5°	1650.5	238.0	43.7	38.1	29.3	19.2	22.3	22.7	18.8	15.7	14.0
75°	971.6	101.9	27.6	24.5	14.9	12.7	16.2	16.6	12.7	10.1	8.7
77.5°	330.7	38.5	17.5	14.4	7.4	7.0	10.5	10.5	7.0	3.9	3.1
80°	75.2	14.4	8.7	5.7	3.5	3.1	3.5	3.1	1.7	0.4	0.0
82.5°	21.4	5.7	3.5	2.2	1.3	1.3	0.4	0.0	0.0	0.0	0.0
85°	6.1	2.6	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.4	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)