

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: P945938

Luminaire Tested: **GALN-SB1D-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
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-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9568 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - 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

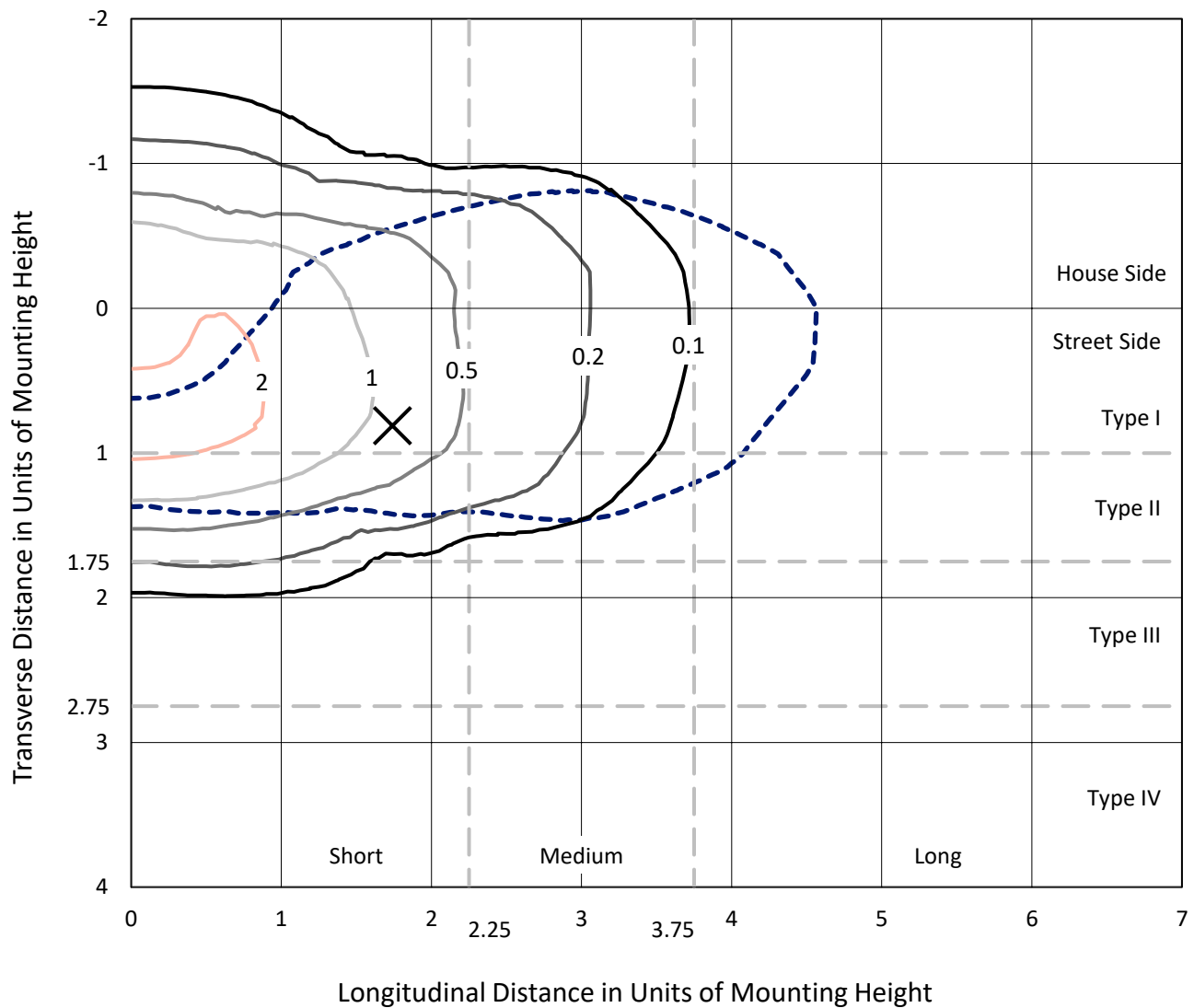


REPORT NUMBER: P945938

CATALOG NUMBER: GALN-SB1D-727-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

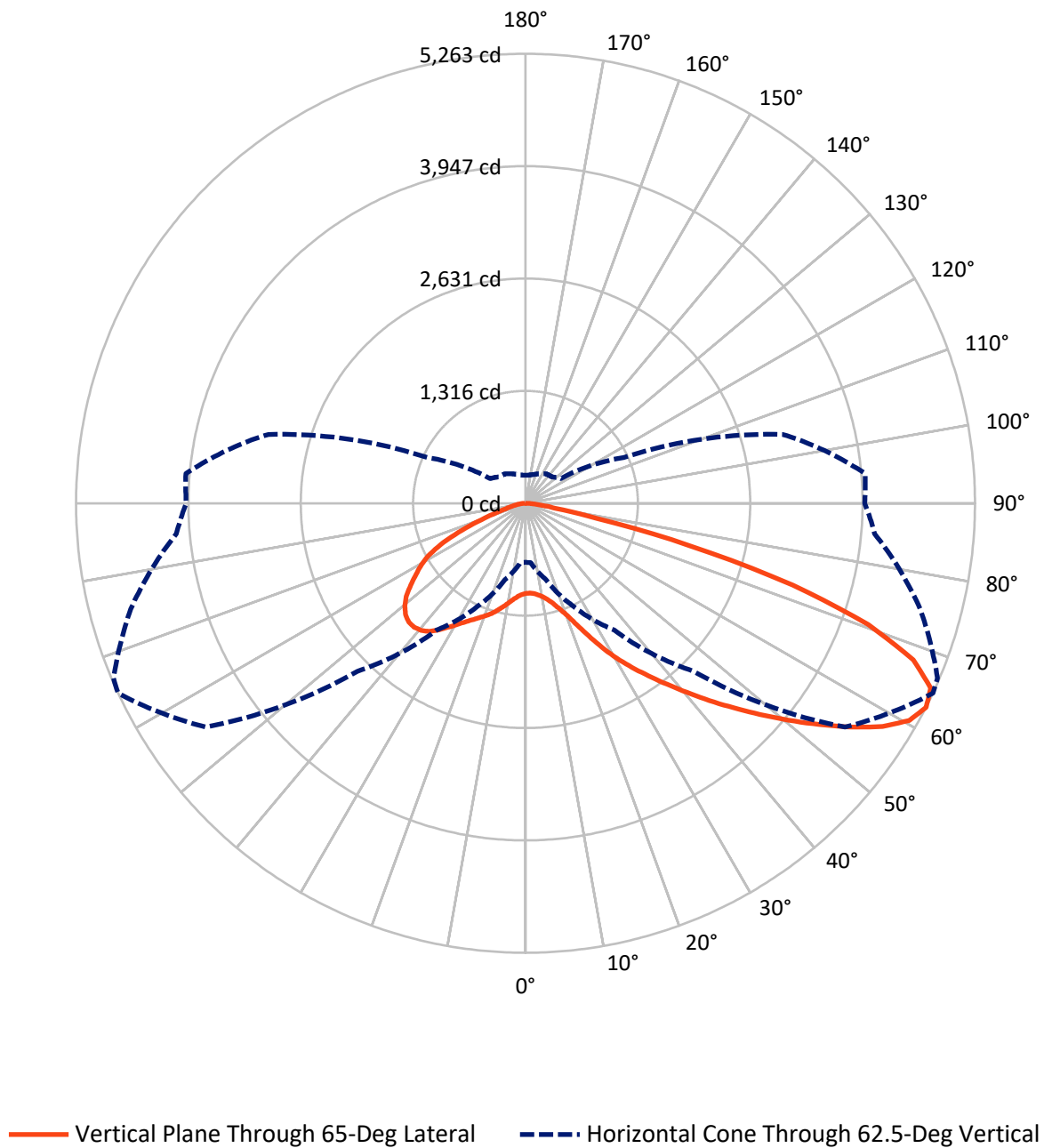


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type II - Short - N/A

REPORT NUMBER: P945938

CATALOG NUMBER: GALN-SB1D-727-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P945938

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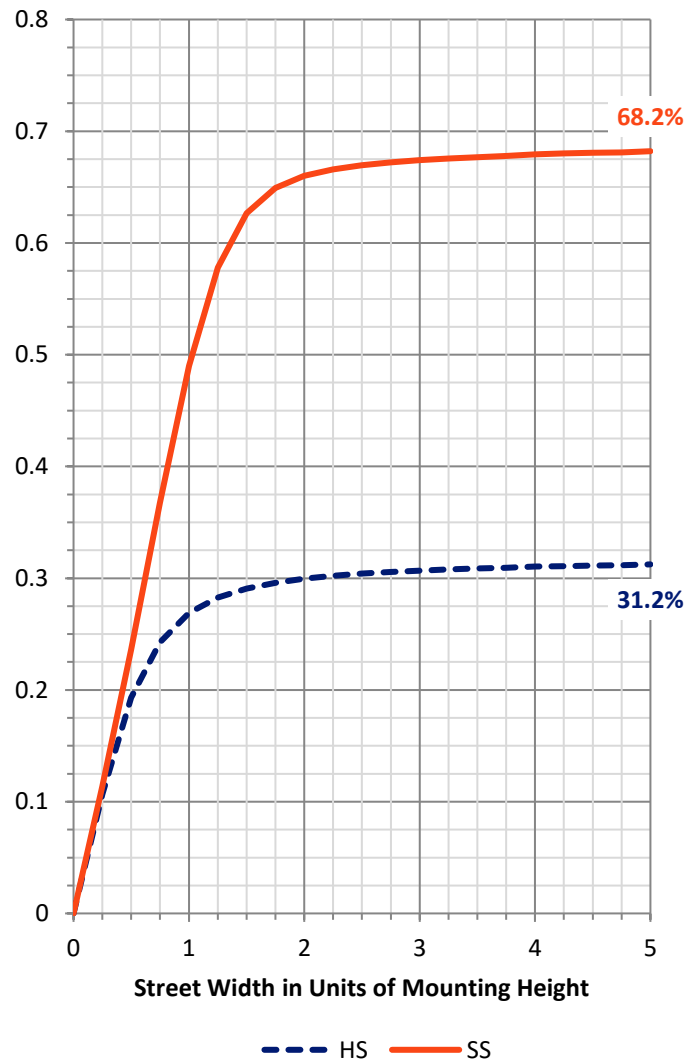
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3019.2	0.0	3019.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	6548.8	0.0	6548.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	9568.0	0.0	9568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	1.1
10°-20°	356.5	3.7
20°-30°	722.8	7.6
30°-40°	1250.7	13.1
40°-50°	1892.8	19.8
50°-60°	2219.1	23.2
60°-70°	1860.5	19.4
70°-80°	1027.1	10.7
80°-90°	133.4	1.4
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°	9568.0	100.0
0°-180°	9568.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945938

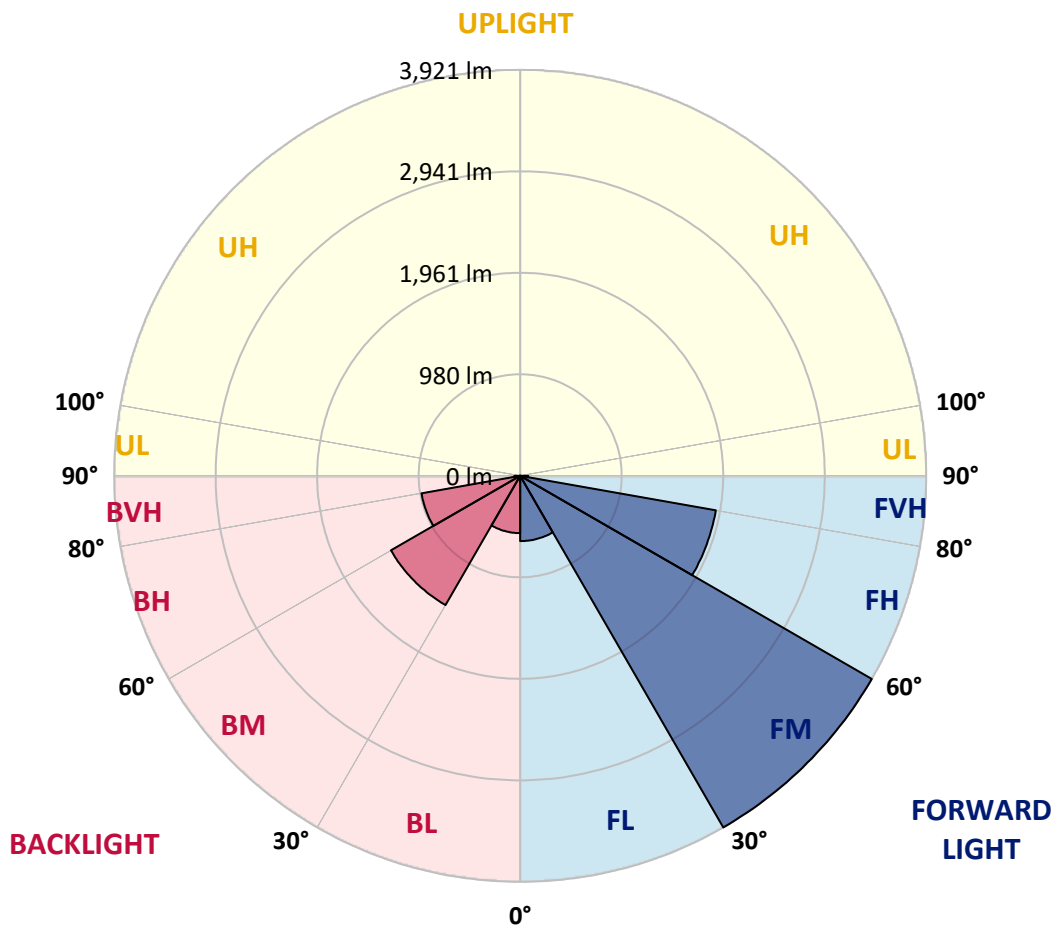
CATALOG NUMBER: GALN-SB1D-727-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	630.7	6.6			
FM	(30°-60°)	3921.3	41.0			
FH	(60°-80°)	1919.1	20.1			G2/5000
FVH	(80°-90°)	77.8	0.8			G1/100
BL	(0°-30°)	553.7	5.8	B2/1000		
BM	(30°-60°)	1441.3	15.1	B2/2500		
BH	(60°-80°)	968.5	10.1	B2/1000		G2/1000
BVH	(80°-90°)	55.7	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P945938

CATALOG NUMBER: GALN-SB1D-727-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4
2.5°	1047.4	1044.4	1046.9	1046.9	1047.9	1047.4	1050.9	1051.9	1053.4	1056.3	1056.3
5°	1037.0	1036.5	1040.9	1044.9	1048.9	1052.4	1056.8	1063.3	1064.3	1067.8	1072.2
7.5°	1033.5	1030.5	1037.5	1042.4	1051.9	1060.3	1072.2	1083.1	1087.6	1089.1	1097.5
10°	1060.3	1055.3	1061.8	1064.8	1072.7	1081.2	1095.1	1112.4	1117.4	1123.4	1132.8
12.5°	1106.0	1100.5	1109.9	1114.4	1121.9	1129.3	1138.7	1155.6	1158.1	1169.0	1178.0
15°	1168.5	1162.1	1168.0	1173.5	1185.9	1192.8	1202.3	1218.7	1218.7	1227.1	1233.6
17.5°	1253.4	1245.0	1249.4	1251.4	1259.4	1269.8	1285.7	1300.1	1307.5	1304.5	1295.6
20°	1380.0	1369.6	1369.6	1359.6	1356.7	1365.1	1385.9	1405.8	1413.7	1398.4	1376.5
22.5°	1570.1	1555.2	1546.8	1513.0	1499.6	1500.6	1521.5	1545.8	1552.2	1524.9	1475.8
25°	1811.9	1788.5	1777.1	1727.5	1697.2	1670.9	1687.3	1718.5	1727.5	1693.7	1614.3
27.5°	2053.6	2055.1	2044.2	1984.6	1934.5	1886.3	1877.9	1910.6	1920.1	1881.8	1783.6
30°	2392.6	2357.4	2336.6	2265.1	2193.6	2126.1	2091.3	2104.7	2107.2	2061.5	1947.4
32.5°	2685.0	2676.1	2631.4	2568.9	2477.0	2371.3	2313.2	2291.9	2287.9	2222.9	2087.4
35°	3018.1	3013.1	2966.0	2891.5	2792.2	2645.3	2540.6	2479.5	2474.6	2383.2	2225.9
37.5°	3356.7	3356.7	3310.5	3229.1	3126.3	2942.7	2783.3	2686.5	2670.6	2551.5	2366.8
40°	3626.7	3610.3	3618.8	3584.5	3466.9	3271.8	3052.9	2912.4	2891.0	2748.1	2516.7
42.5°	3780.1	3774.6	3825.3	3863.5	3815.3	3659.5	3349.7	3157.1	3127.3	2964.5	2689.5
45°	3814.3	3808.4	3898.7	4038.7	4106.2	4042.2	3672.4	3414.7	3378.5	3190.9	2874.6
47.5°	3735.4	3723.5	3856.0	4076.9	4293.4	4406.0	4021.8	3694.2	3641.6	3411.3	3064.8
50°	3498.1	3486.7	3687.3	3980.6	4356.4	4653.2	4401.1	3990.6	3910.1	3647.5	3256.9
52.5°	2982.4	2987.8	3302.0	3705.1	4273.5	4807.1	4727.7	4302.8	4206.0	3889.3	3437.1
55°	2323.1	2335.1	2721.3	3165.0	3941.9	4783.8	4950.6	4624.5	4528.2	4116.6	3623.2
57.5°	1663.4	1716.1	2077.9	2517.2	3305.0	4414.0	4999.2	4930.2	4836.9	4364.8	3805.4
60°	1078.2	1087.6	1459.9	1902.7	2516.7	3756.7	4900.5	5162.1	5089.1	4618.0	3957.8
62.5°	691.0	697.4	924.3	1330.8	1811.4	2779.3	4567.9	5262.8	5240.5	4785.3	4104.2
65°	507.8	502.9	621.0	879.6	1220.1	1714.1	3922.1	5214.2	5258.4	4890.0	4225.4
67.5°	423.9	417.0	475.1	609.1	899.0	973.4	2902.0	4898.0	5059.8	4878.1	4314.2
70°	386.2	380.2	415.5	452.2	701.4	651.8	1462.9	4258.1	4507.3	4742.6	4299.8
72.5°	327.1	316.7	364.9	401.6	545.5	499.9	604.6	3270.8	3574.6	4308.2	4097.3
75°	253.7	246.7	287.9	353.4	410.0	390.2	382.2	1986.1	2317.7	3331.8	3584.5
77.5°	201.0	191.6	229.3	275.5	368.8	294.4	278.5	855.3	1183.9	2127.1	2682.0
80°	151.4	143.0	174.2	217.9	283.4	221.9	180.2	349.0	446.3	1077.7	1348.7
82.5°	107.7	100.3	121.6	159.8	190.6	199.1	110.7	195.6	219.9	415.5	301.3
85°	69.0	64.5	81.4	100.3	121.1	128.1	67.5	102.3	112.2	171.3	125.6
87.5°	37.7	30.8	43.7	46.7	56.1	51.1	32.3	37.2	40.2	62.0	53.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945938

CATALOG NUMBER: GALN-SB1D-727-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4	1054.4
2.5°	1058.3	1059.8	1064.8	1066.3	1069.7	1074.2	1077.2	1080.2	1080.2	1083.1	1083.1
5°	1072.7	1076.2	1086.6	1092.1	1101.0	1109.9	1115.4	1121.9	1125.8	1127.8	1128.8
7.5°	1100.5	1106.0	1120.9	1130.3	1145.7	1158.1	1166.5	1175.5	1177.5	1182.9	1180.9
10°	1138.2	1144.7	1161.6	1179.4	1197.8	1213.2	1221.1	1227.6	1230.1	1231.1	1228.6
12.5°	1181.4	1190.9	1212.7	1234.5	1253.9	1267.3	1269.3	1267.8	1260.9	1254.9	1254.9
15°	1234.5	1243.0	1267.3	1291.1	1310.0	1312.5	1300.1	1292.1	1283.7	1282.2	1282.2
17.5°	1298.1	1302.6	1324.9	1348.2	1349.7	1341.3	1322.9	1315.5	1307.5	1302.1	1302.6
20°	1372.0	1370.6	1386.4	1396.4	1385.9	1360.1	1332.3	1319.9	1312.0	1305.5	1306.0
22.5°	1460.4	1449.0	1447.0	1444.5	1416.7	1362.6	1324.9	1309.0	1296.6	1287.7	1290.6
25°	1589.0	1545.3	1515.0	1498.1	1435.6	1349.2	1301.1	1265.8	1242.5	1227.1	1233.1
27.5°	1749.8	1676.3	1599.9	1558.7	1435.6	1321.9	1243.5	1186.4	1148.2	1132.3	1140.2
30°	1903.2	1826.3	1713.6	1631.7	1432.1	1277.2	1150.7	1071.2	1026.6	1010.7	1020.1
32.5°	2034.2	1950.4	1834.2	1711.6	1423.7	1204.8	1035.5	947.6	904.4	885.6	895.0
35°	2155.9	2066.5	1955.3	1799.4	1401.3	1098.5	908.9	841.9	793.7	763.5	773.4
37.5°	2280.5	2174.2	2070.0	1878.9	1361.1	974.4	811.6	754.5	697.9	657.2	668.2
40°	2416.0	2288.9	2192.6	1926.0	1295.1	856.3	736.2	684.0	624.0	580.8	589.2
42.5°	2574.3	2426.4	2329.1	1950.4	1204.8	772.4	687.0	635.9	579.3	544.1	551.0
45°	2739.6	2577.8	2453.7	1949.9	1104.0	733.2	671.1	620.5	558.0	521.2	527.2
47.5°	2912.9	2736.2	2561.4	1918.1	1016.6	738.6	662.2	587.2	518.2	482.5	487.5
50°	3086.6	2909.4	2665.7	1858.5	979.4	726.7	628.9	540.6	459.2	426.9	428.9
52.5°	3258.9	3093.6	2755.5	1773.6	941.7	682.5	586.2	480.0	434.8	412.5	412.5
55°	3432.1	3275.7	2853.3	1650.0	847.4	630.9	514.8	457.2	415.5	395.1	393.1
57.5°	3605.8	3486.2	2946.1	1526.4	728.7	567.4	475.6	429.4	396.1	378.8	375.8
60°	3786.5	3727.0	3041.9	1412.8	611.6	486.0	446.8	407.0	373.3	353.9	352.4
62.5°	3972.7	3992.0	3116.9	1266.3	503.8	436.3	420.9	380.2	347.5	329.1	328.6
65°	4160.3	4247.7	3166.0	1063.3	408.5	389.2	393.1	351.0	317.7	301.8	301.3
67.5°	4301.8	4431.9	3152.1	804.7	335.1	344.5	358.4	320.2	288.9	276.5	277.0
70°	4317.7	4410.0	3015.1	551.0	280.5	300.8	319.7	289.9	257.6	248.7	249.2
72.5°	4106.2	4112.2	2633.4	359.9	237.3	264.1	279.0	259.1	227.8	218.9	218.4
75°	3551.7	3400.8	1933.5	237.3	198.6	226.9	240.8	226.9	196.6	198.6	191.6
77.5°	2691.0	2408.5	1174.0	168.8	165.8	190.6	209.5	199.6	173.7	195.1	171.8
80°	1386.4	1303.0	523.7	126.1	131.0	152.4	172.3	159.3	137.5	131.0	119.6
82.5°	317.7	369.3	206.5	90.3	94.8	109.7	131.5	119.6	98.8	83.4	82.4
85°	111.2	121.6	91.3	56.6	55.6	68.5	89.4	79.9	67.0	53.6	56.6
87.5°	35.2	46.2	34.3	22.8	23.8	30.8	41.2	37.7	31.3	20.4	21.3
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)