

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: P939238

Luminaire Tested: **GALN-SB1D-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7149 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - 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

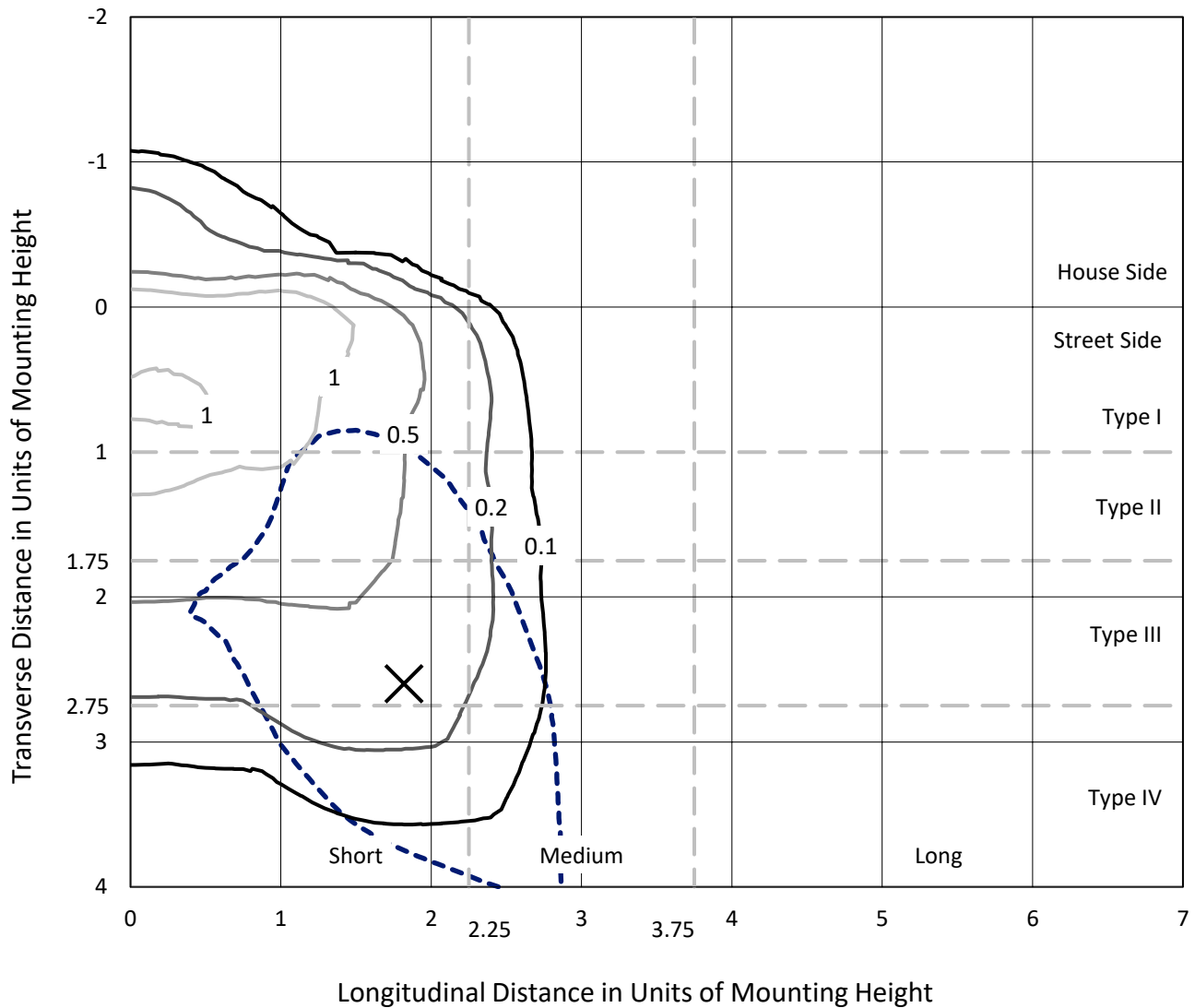


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Iso-Footcandle Lines of Horizontal Illumination

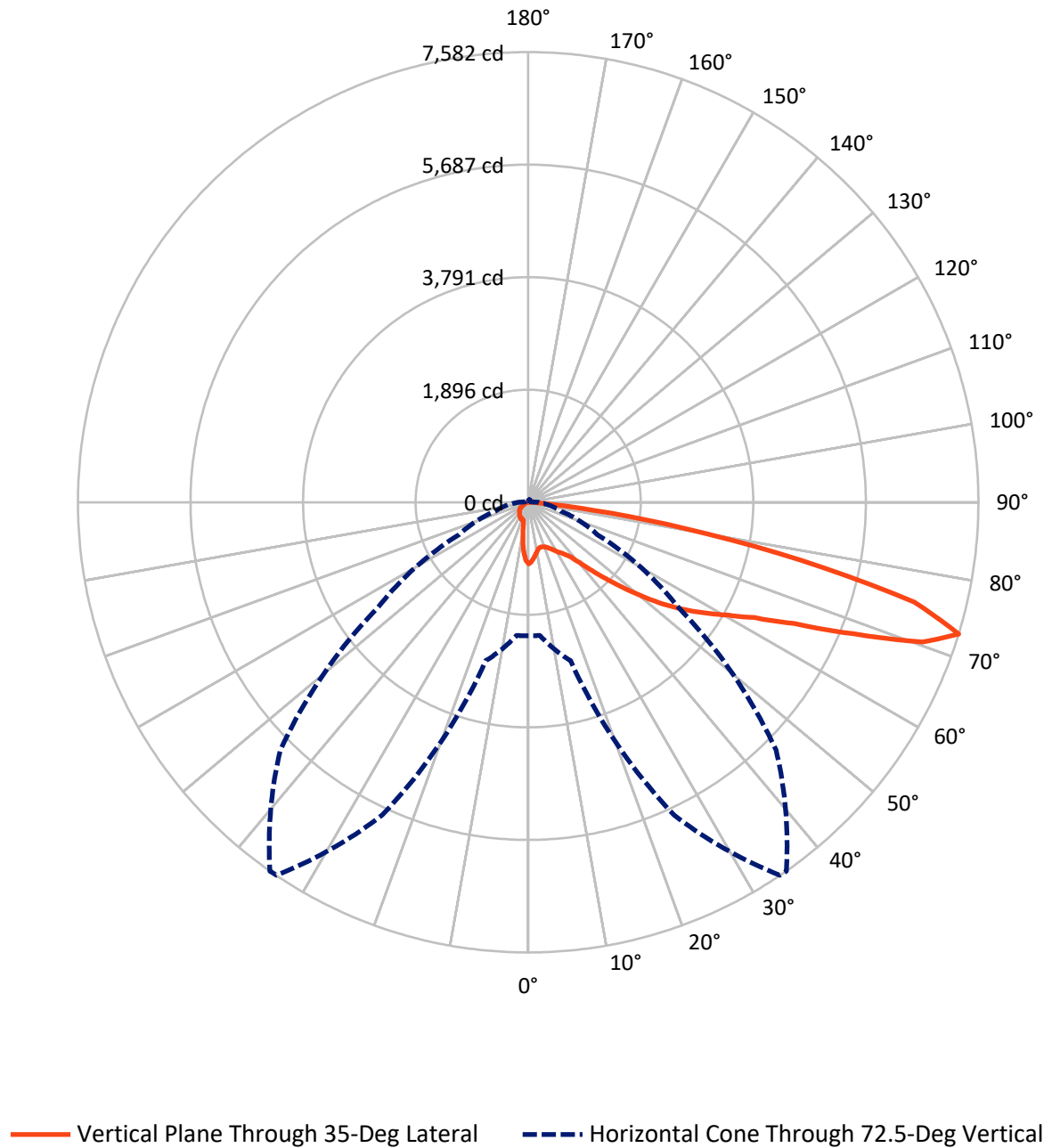
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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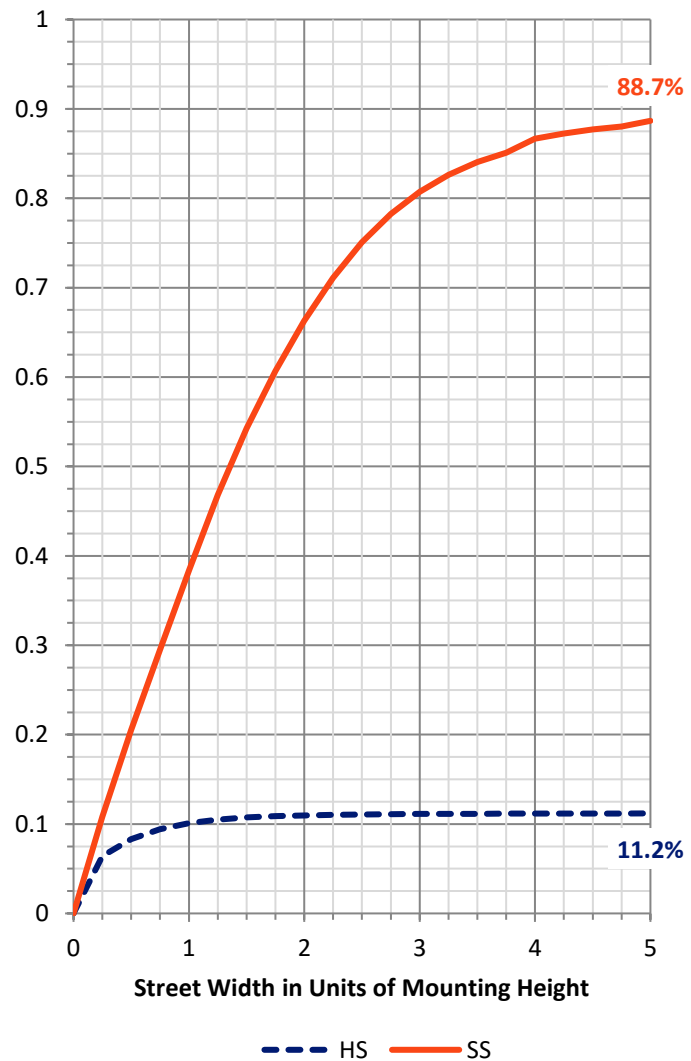
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	804.6	0.0	804.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	6344.4	0.0	6344.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	7149.0	0.0	7149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	1.2
10°-20°	199.2	2.8
20°-30°	323.6	4.5
30°-40°	539.9	7.6
40°-50°	1021.4	14.3
50°-60°	1623.0	22.7
60°-70°	2007.8	28.1
70°-80°	1248.1	17.5
80°-90°	100.9	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°	7149.0	100.0
0°-180°	7149.0	100.0

Coefficient of Utilization



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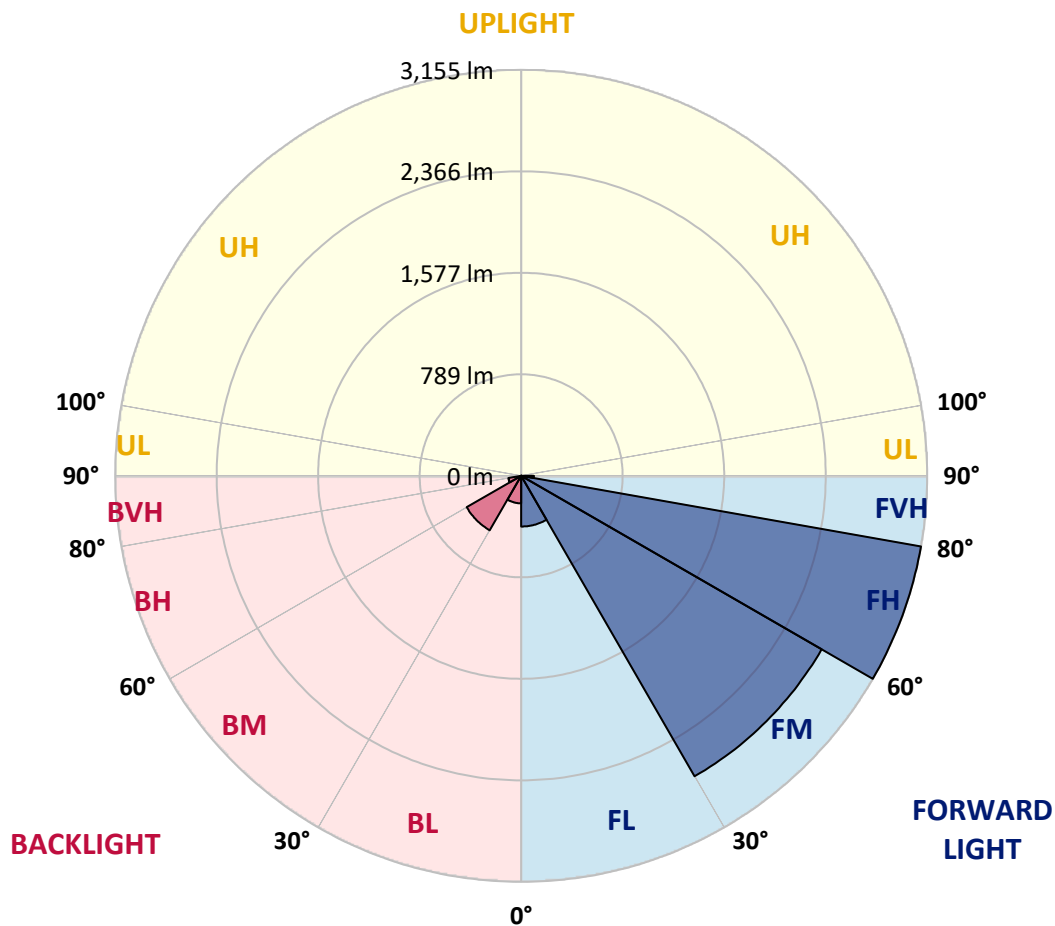
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	394.1	5.5			
FM	(30°-60°)	2695.9	37.7			
FH	(60°-80°)	3154.9	44.1			G2/5000
FVH	(80°-90°)	99.5	1.4			G1/100
BL	(0°-30°)	213.8	3.0	B1/500		
BM	(30°-60°)	488.5	6.8	B1/1000		
BH	(60°-80°)	101.0	1.4	B0/110		G0/110
BVH	(80°-90°)	1.4	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°	34°	35°	45°	55°	65°	75°	85°
0°	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1
2.5°	990.0	998.4	1000.0	1002.6	1002.6	1005.7	1011.0	1018.3	1030.4	1036.7	1040.8
5°	912.5	918.8	926.6	932.9	945.0	946.6	967.0	986.9	1014.7	1035.6	1050.3
7.5°	834.5	841.8	852.3	867.5	883.2	887.9	918.8	952.3	996.3	1035.6	1060.2
10°	779.5	780.0	789.4	804.6	829.7	835.5	873.2	920.9	975.9	1029.3	1069.7
12.5°	748.5	752.2	756.4	767.9	792.0	795.7	836.0	892.1	955.5	1025.7	1080.7
15°	748.5	751.2	753.8	759.5	778.9	782.1	817.7	873.7	945.0	1027.2	1098.5
17.5°	756.4	760.6	758.5	765.3	785.7	787.8	819.3	868.5	944.5	1037.2	1125.7
20°	775.3	778.4	774.2	778.4	798.8	803.0	835.5	878.5	953.4	1054.5	1159.8
22.5°	805.1	806.7	796.7	799.9	820.8	826.1	863.8	906.7	974.8	1082.2	1205.3
25°	842.8	846.0	830.8	834.5	854.4	860.6	904.1	949.2	1008.9	1120.5	1263.5
27.5°	886.3	887.9	874.8	874.3	899.9	908.8	952.8	1001.6	1054.5	1168.7	1336.8
30°	936.1	940.8	928.2	926.1	958.6	965.9	1009.4	1066.0	1121.5	1240.9	1441.0
32.5°	975.4	979.0	971.7	976.9	1009.9	1015.7	1078.0	1157.1	1226.8	1343.6	1583.0
35°	1031.9	1034.0	1017.3	1026.7	1064.4	1079.1	1171.8	1284.9	1359.3	1472.5	1768.4
37.5°	1236.8	1236.8	1165.5	1118.9	1155.0	1168.1	1300.1	1445.8	1522.8	1645.3	2002.1
40°	1520.1	1515.4	1411.2	1315.9	1311.1	1336.8	1483.0	1648.5	1733.9	1852.8	2265.0
42.5°	1822.4	1815.1	1673.1	1578.8	1563.1	1572.0	1694.1	1898.3	1985.3	2105.8	2547.9
45°	2090.6	2088.5	1958.6	1831.8	1803.5	1831.8	1957.5	2190.6	2253.0	2379.7	2830.2
47.5°	2315.3	2315.3	2220.5	2137.7	2123.1	2139.8	2314.3	2514.9	2509.1	2671.5	3105.2
50°	2574.1	2572.0	2481.9	2446.3	2461.5	2485.0	2724.9	2856.4	2774.2	2958.1	3350.9
52.5°	2755.3	2767.9	2737.0	2731.2	2808.8	2849.6	3141.9	3190.6	3011.5	3229.9	3534.8
55°	2898.9	2913.5	2949.1	2989.5	3138.8	3192.2	3545.8	3507.5	3210.0	3465.6	3640.6
57.5°	3102.1	3081.2	3136.2	3215.8	3457.3	3521.7	3937.1	3806.7	3369.8	3656.8	3652.1
60°	3348.8	3352.0	3361.4	3462.0	3775.2	3858.0	4322.6	4089.5	3472.4	3774.2	3524.3
62.5°	3645.3	3650.0	3669.4	3823.9	4202.1	4280.2	4733.3	4321.0	3519.6	3741.2	3194.3
65°	3624.9	3644.8	3861.1	4389.7	4851.2	4928.2	5212.6	4483.4	3448.4	3439.4	2600.8
67.5°	3302.2	3334.7	3696.6	5065.4	5829.7	5915.6	5792.0	4515.4	3140.9	2674.7	1696.7
70°	2879.0	2890.5	3325.8	5673.0	6962.7	7049.7	6310.5	4163.9	2383.4	1491.9	760.1
72.5°	2248.3	2250.9	2761.6	5814.0	7577.7	7582.4	5903.5	3091.1	1281.8	573.1	264.0
75°	1606.1	1590.3	1849.6	4715.0	6666.7	6720.2	4425.8	1450.0	489.8	270.8	131.5
77.5°	861.2	878.5	1046.6	2796.2	4605.5	4696.6	2414.8	418.0	249.3	184.4	87.0
80°	266.1	280.8	429.0	1280.2	2608.7	2663.7	895.2	186.0	173.9	131.5	57.1
82.5°	83.8	87.0	200.1	538.0	1082.8	1107.9	259.3	105.3	118.9	87.0	33.5
85°	24.1	24.6	89.1	200.6	267.7	272.9	72.8	40.9	68.1	54.0	17.3
87.5°	2.6	8.4	33.5	33.5	23.6	23.0	7.9	8.9	19.4	6.8	3.1
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°	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1
2.5°	1038.2	1038.7	1031.9	1020.4	1007.8	997.4	984.3	973.8	966.5	964.4	968.0
5°	1045.6	1041.9	1022.5	987.4	945.5	909.4	869.0	837.1	816.1	807.2	810.4
7.5°	1056.6	1046.1	1003.7	934.5	854.4	783.1	710.8	654.8	619.2	601.4	604.0
10°	1066.0	1045.0	972.2	858.0	735.5	627.5	530.1	462.5	424.8	407.0	407.5
12.5°	1074.9	1044.5	931.4	767.4	601.4	469.3	378.7	345.2	334.7	331.1	330.0
15°	1091.7	1046.1	880.0	663.7	467.8	354.6	321.6	321.1	323.2	322.2	321.6
17.5°	1114.7	1047.7	821.9	553.7	360.9	312.7	311.2	315.9	319.0	317.4	316.9
20°	1144.6	1053.9	760.1	444.7	310.1	302.2	305.9	310.1	312.7	310.1	309.6
22.5°	1186.5	1064.9	692.5	357.3	293.9	296.0	299.1	303.8	306.4	302.8	302.2
25°	1237.8	1082.2	626.0	310.6	286.0	288.6	293.3	298.6	301.7	298.1	297.5
27.5°	1304.3	1110.0	564.7	300.2	278.2	279.7	286.5	294.4	298.6	293.9	293.9
30°	1400.7	1155.6	511.8	304.9	273.4	269.8	279.2	290.2	294.9	290.7	290.2
32.5°	1528.5	1220.0	479.3	312.2	271.3	258.2	267.2	281.3	289.2	286.5	286.5
35°	1696.2	1317.9	466.7	320.6	269.8	246.2	252.5	267.7	281.3	283.9	283.9
37.5°	1899.4	1454.1	470.4	324.2	265.1	236.2	239.4	252.5	270.3	278.7	280.8
40°	2130.4	1612.9	491.3	320.6	259.8	227.9	228.4	238.3	254.1	266.6	270.8
42.5°	2368.7	1798.3	530.1	307.0	255.1	220.5	219.0	225.8	236.2	245.2	248.8
45°	2595.6	1989.0	568.4	288.1	249.3	213.2	209.5	212.1	214.2	217.9	220.0
47.5°	2793.6	2123.1	557.4	270.8	241.5	204.8	198.5	197.5	191.2	190.7	190.1
50°	2930.3	2152.4	495.0	253.5	230.0	195.4	185.4	179.1	168.1	162.9	163.4
52.5°	2973.8	2036.6	404.4	236.2	211.1	182.8	168.7	158.7	145.1	140.4	139.9
55°	2916.1	1809.8	323.2	215.3	184.9	166.1	150.3	137.2	126.2	120.5	120.5
57.5°	2775.2	1521.2	255.6	190.7	157.1	147.2	131.5	118.4	109.0	103.2	102.1
60°	2541.6	1207.9	202.2	161.3	134.1	126.8	110.5	102.1	93.8	87.0	85.4
62.5°	2187.0	862.2	158.7	127.8	112.1	103.7	94.3	88.0	78.1	68.6	67.0
65°	1706.6	527.5	122.6	93.8	90.1	85.9	80.1	74.4	62.3	52.9	51.3
67.5°	1076.5	249.9	87.5	70.7	71.2	69.1	66.5	61.8	52.9	44.5	43.5
70°	474.1	121.0	57.6	54.0	52.9	52.9	55.0	53.4	45.0	37.2	35.6
72.5°	161.3	65.0	43.0	40.9	38.2	37.7	46.1	44.5	36.1	28.8	27.2
75°	84.3	43.5	31.4	29.3	23.0	27.8	36.7	34.6	25.7	18.9	17.3
77.5°	55.0	30.9	21.5	18.9	13.1	18.3	27.2	24.1	15.2	9.4	8.4
80°	34.6	20.4	12.6	8.9	6.3	10.0	14.7	10.5	5.8	2.1	1.6
82.5°	18.3	10.5	4.7	3.1	2.6	3.1	3.7	2.6	1.0	0.0	0.0
85°	7.3	3.7	1.6	1.0	0.5	0.0	1.0	0.5	0.0	0.0	0.0
87.5°	2.6	0.5	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)