

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: P939248

Luminaire Tested: **GALN-SB1D-730-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939248
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-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 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: 7707 lumens
Efficiency: N/A
Efficacy: 96.8 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



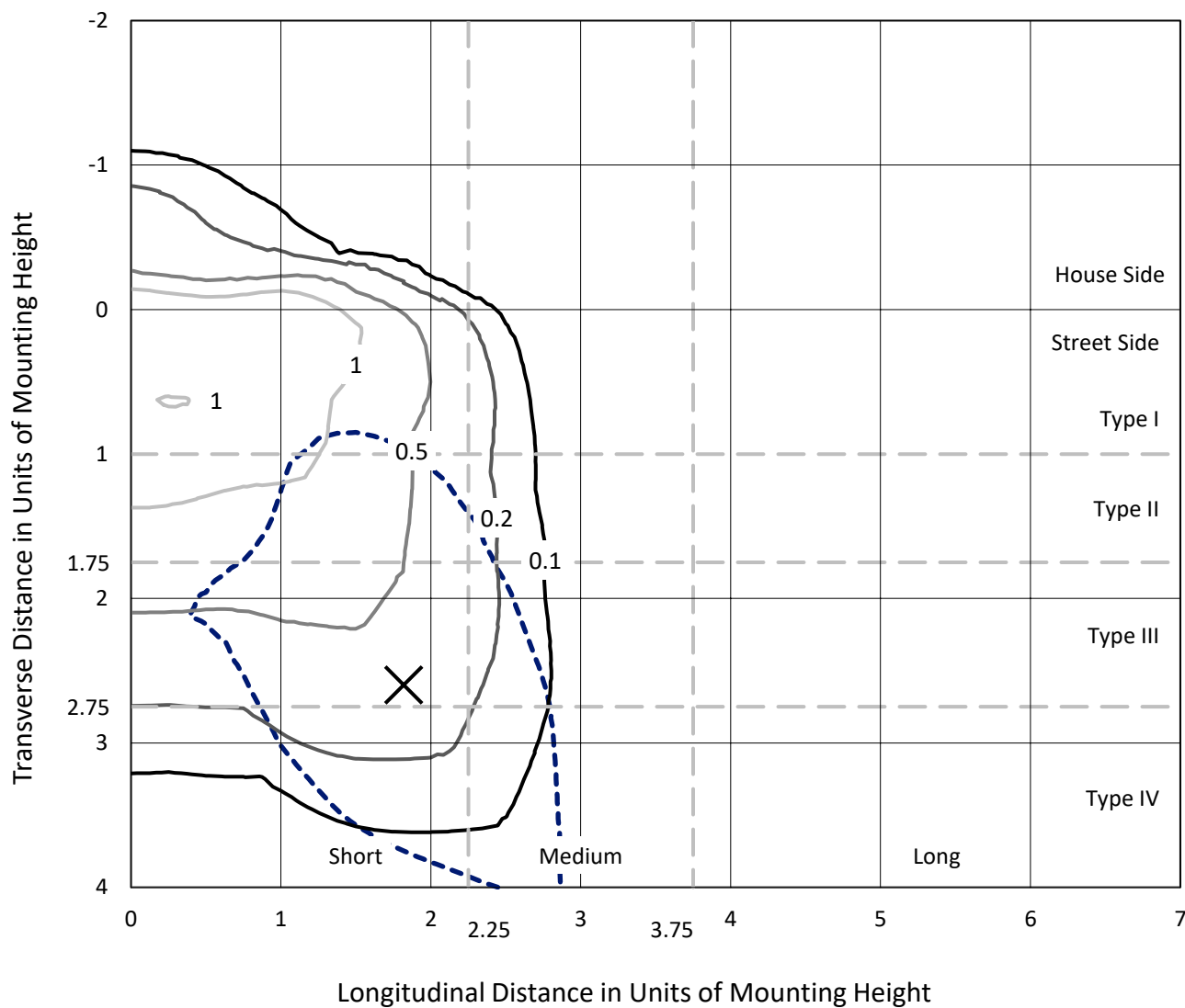
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

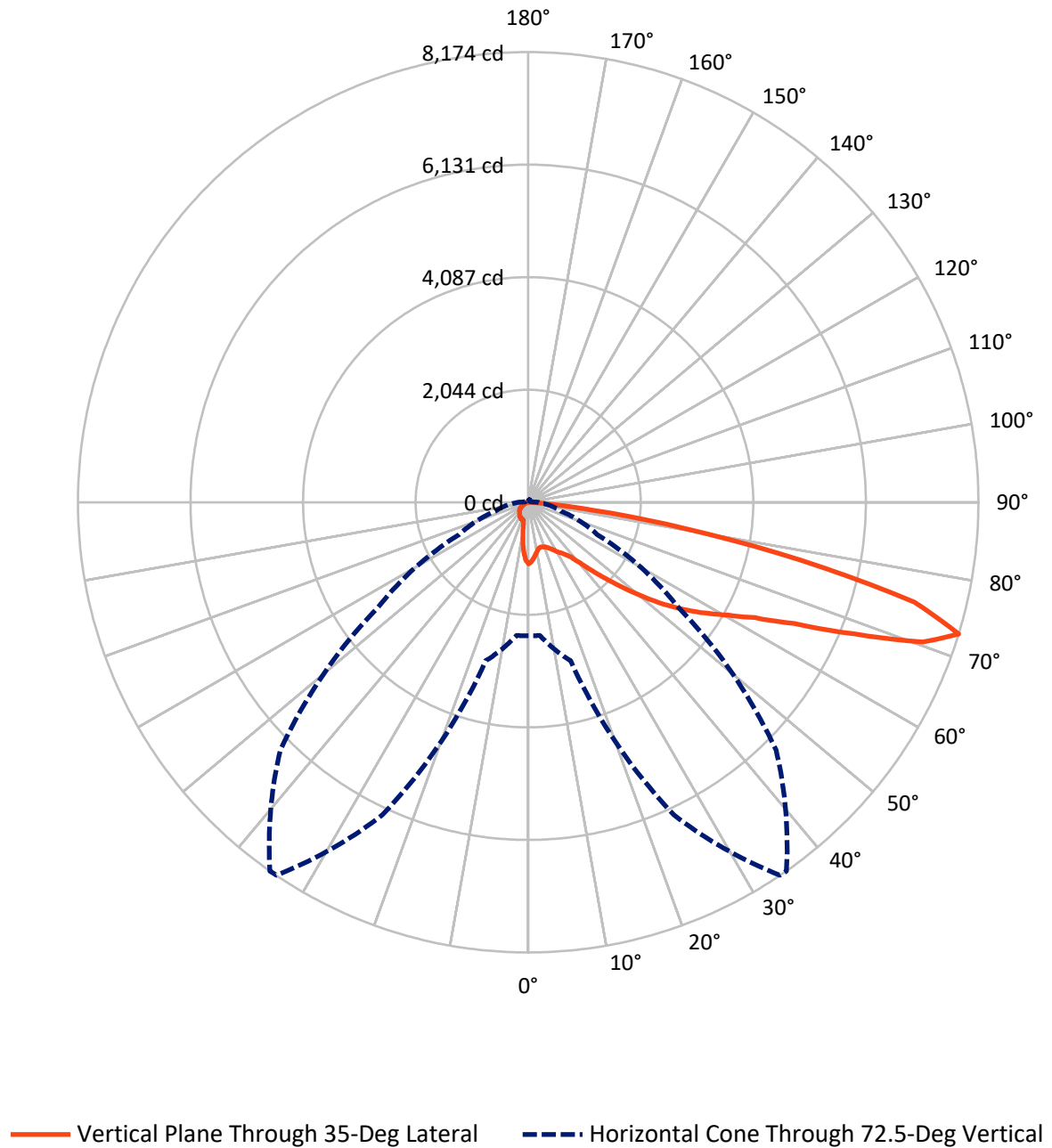
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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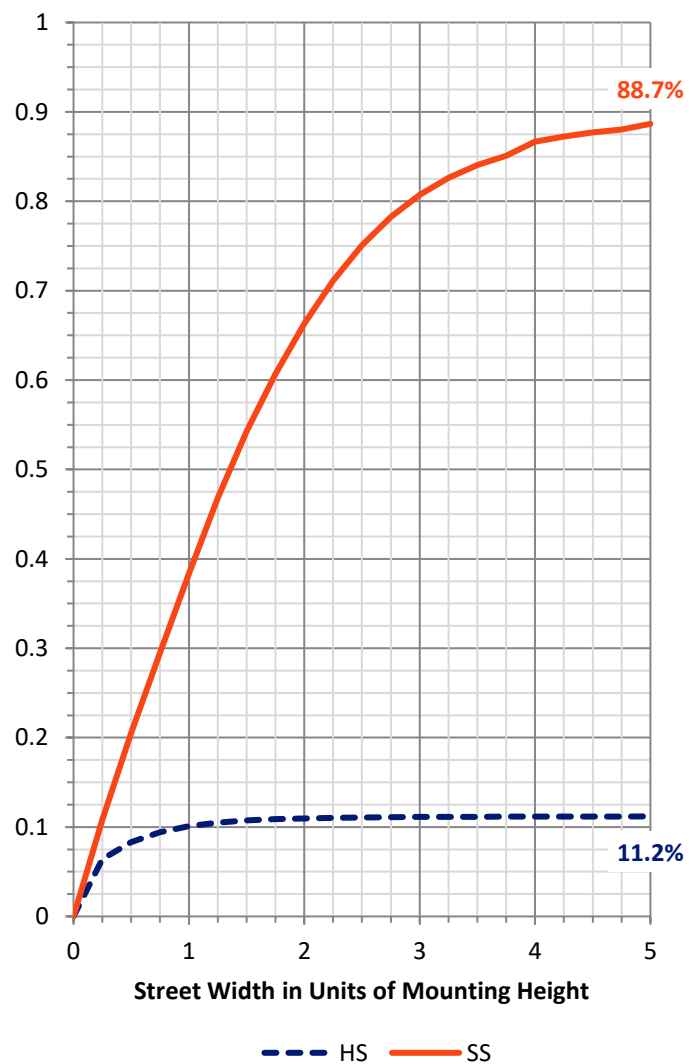
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	867.4	0.0	867.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	6839.6	0.0	6839.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	7707.0	0.0	7707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	1.2
10°-20°	214.7	2.8
20°-30°	348.8	4.5
30°-40°	582.0	7.6
40°-50°	1101.2	14.3
50°-60°	1749.7	22.7
60°-70°	2164.5	28.1
70°-80°	1345.5	17.5
80°-90°	108.7	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°	7707.0	100.0
0°-180°	7707.0	100.0

Coefficient of Utilization



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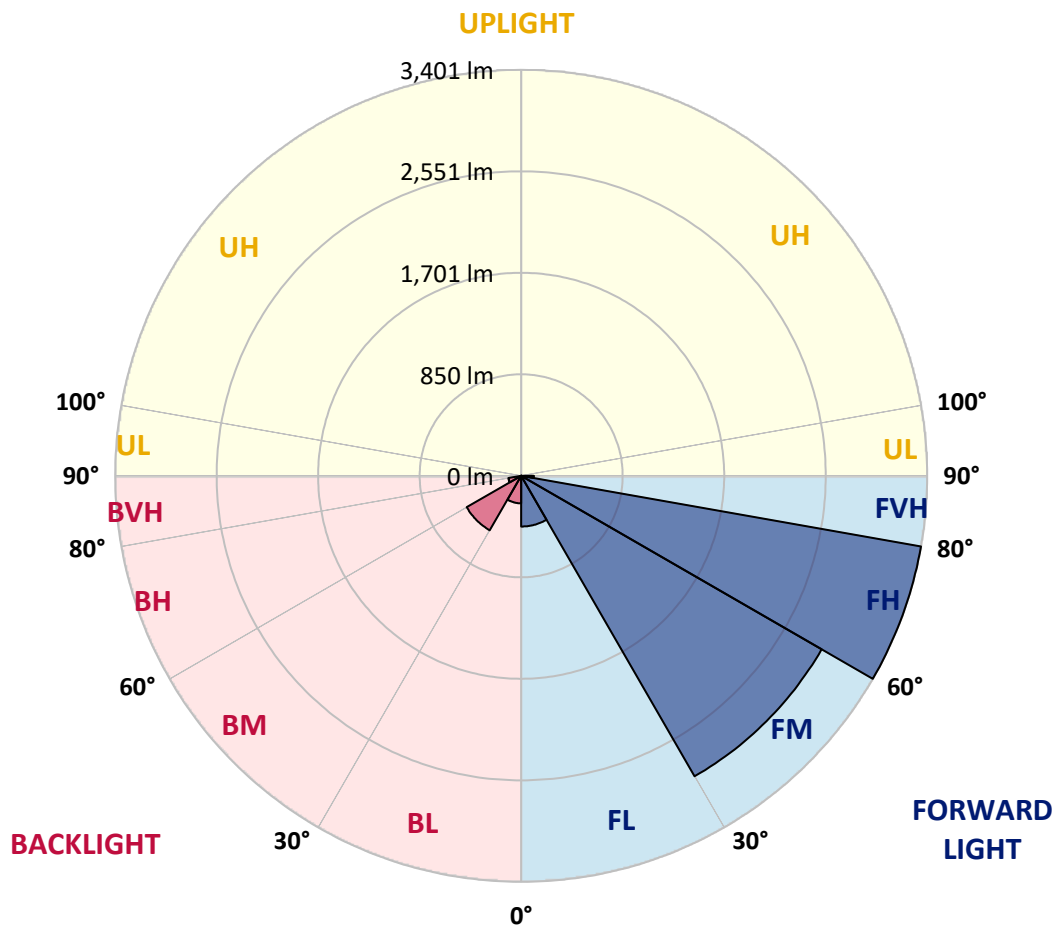
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	424.9	5.5			
FM	(30°-60°)	2906.3	37.7			
FH	(60°-80°)	3401.2	44.1			G2/5000
FVH	(80°-90°)	107.3	1.4			G2/225
BL	(0°-30°)	230.5	3.0	B1/500		
BM	(30°-60°)	526.6	6.8	B1/1000		
BH	(60°-80°)	108.8	1.4	B0/110		G0/110
BVH	(80°-90°)	1.5	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°	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0
2.5°	1067.3	1076.3	1078.0	1080.9	1080.9	1084.2	1089.9	1097.8	1110.8	1117.6	1122.1
5°	983.7	990.5	999.0	1005.8	1018.7	1020.4	1042.5	1063.9	1093.8	1116.4	1132.2
7.5°	899.6	907.5	918.8	935.2	952.1	957.2	990.5	1026.6	1074.1	1116.4	1143.0
10°	840.3	840.9	851.0	867.4	894.5	900.7	941.4	992.8	1052.1	1109.7	1153.1
12.5°	807.0	810.9	815.4	827.9	853.8	857.8	901.3	961.7	1030.0	1105.7	1165.0
15°	807.0	809.8	812.6	818.8	839.7	843.1	881.5	941.9	1018.7	1107.4	1184.2
17.5°	815.4	820.0	817.7	825.0	847.1	849.3	883.2	936.3	1018.2	1118.1	1213.6
20°	835.8	839.2	834.6	839.2	861.2	865.7	900.7	947.0	1027.8	1136.8	1250.3
22.5°	868.0	869.7	858.9	862.3	884.9	890.6	931.2	977.5	1050.9	1166.7	1299.4
25°	908.6	912.0	895.6	899.6	921.0	927.8	974.7	1023.3	1087.6	1207.9	1362.1
27.5°	955.5	957.2	943.1	942.5	970.2	979.8	1027.2	1079.7	1136.8	1259.9	1441.1
30°	1009.1	1014.2	1000.7	998.4	1033.4	1041.3	1088.2	1149.2	1209.1	1337.8	1553.5
32.5°	1051.5	1055.4	1047.5	1053.2	1088.8	1095.0	1162.2	1247.5	1322.6	1448.5	1706.6
35°	1112.5	1114.7	1096.7	1106.8	1147.5	1163.3	1263.3	1385.2	1465.4	1587.4	1906.5
37.5°	1333.3	1333.3	1256.5	1206.2	1245.2	1259.3	1401.6	1558.6	1641.6	1773.8	2158.3
40°	1638.8	1633.7	1521.3	1418.6	1413.5	1441.1	1598.7	1777.2	1869.2	1997.4	2441.8
42.5°	1964.6	1956.7	1803.7	1702.0	1685.1	1694.7	1826.3	2046.5	2140.3	2270.1	2746.8
45°	2253.8	2251.5	2111.5	1974.8	1944.3	1974.8	2110.3	2361.6	2428.8	2565.5	3051.1
47.5°	2496.0	2496.0	2393.8	2304.6	2288.8	2306.9	2494.9	2711.2	2705.0	2880.0	3347.6
50°	2775.0	2772.7	2675.6	2637.2	2653.6	2679.0	2937.6	3079.4	2990.7	3188.9	3612.5
52.5°	2970.4	2983.9	2950.6	2944.4	3028.0	3072.0	3387.1	3439.7	3246.5	3482.0	3810.7
55°	3125.1	3140.9	3179.3	3222.8	3383.8	3441.4	3822.5	3781.3	3460.6	3736.1	3924.8
57.5°	3344.2	3321.6	3380.9	3466.8	3727.1	3796.6	4244.4	4103.8	3632.8	3942.3	3937.2
60°	3610.2	3613.6	3623.8	3732.2	4069.9	4159.1	4660.0	4408.7	3743.5	4068.8	3799.4
62.5°	3929.8	3934.9	3955.8	4122.4	4530.1	4614.3	5102.7	4658.3	3794.3	4033.2	3443.6
65°	3907.8	3929.3	4162.5	4732.3	5229.8	5312.8	5619.5	4833.4	3717.5	3707.9	2803.8
67.5°	3560.0	3595.0	3985.2	5460.8	6284.7	6377.3	6244.0	4867.8	3386.0	2883.4	1829.1
70°	3103.7	3116.1	3585.4	6115.8	7506.2	7599.9	6803.1	4488.9	2569.4	1608.3	819.4
72.5°	2423.7	2426.6	2977.2	6267.8	8169.1	8174.2	6364.3	3332.4	1381.9	617.8	284.6
75°	1731.4	1714.5	1994.0	5083.0	7187.1	7244.7	4771.3	1563.1	528.0	292.0	141.7
77.5°	928.4	947.0	1128.3	3014.4	4965.0	5063.2	2603.3	450.6	268.8	198.8	93.7
80°	286.9	302.7	462.5	1380.2	2812.3	2871.6	965.1	200.5	187.5	141.7	61.6
82.5°	90.4	93.7	215.7	580.0	1167.3	1194.4	279.5	113.5	128.2	93.7	36.1
85°	26.0	26.5	96.0	216.3	288.6	294.2	78.5	44.0	73.4	58.2	18.6
87.5°	2.8	9.0	36.1	36.1	25.4	24.8	8.5	9.6	20.9	7.3	3.4
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°	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0
2.5°	1119.3	1119.8	1112.5	1100.1	1086.5	1075.2	1061.1	1049.8	1041.9	1039.6	1043.6
5°	1127.2	1123.2	1102.3	1064.5	1019.3	980.3	936.9	902.4	879.8	870.2	873.6
7.5°	1139.0	1127.7	1082.0	1007.4	921.0	844.2	766.3	705.9	667.5	648.3	651.1
10°	1149.2	1126.6	1048.1	925.0	792.9	676.5	571.5	498.6	458.0	438.8	439.3
12.5°	1158.8	1126.0	1004.1	827.3	648.3	506.0	408.3	372.1	360.9	356.9	355.8
15°	1176.9	1127.7	948.7	715.5	504.3	382.3	346.7	346.2	348.4	347.3	346.7
17.5°	1201.7	1129.4	886.0	596.9	389.1	337.1	335.4	340.5	343.9	342.2	341.7
20°	1233.9	1136.2	819.4	479.4	334.3	325.8	329.8	334.3	337.1	334.3	333.7
22.5°	1279.1	1148.1	746.6	385.1	316.8	319.1	322.5	327.5	330.4	326.4	325.8
25°	1334.4	1166.7	674.8	334.9	308.3	311.2	316.2	321.9	325.3	321.3	320.8
27.5°	1406.1	1196.6	608.8	323.6	299.9	301.6	308.9	317.4	321.9	316.8	316.8
30°	1510.0	1245.8	551.7	328.7	294.8	290.8	301.0	312.9	317.9	313.4	312.9
32.5°	1647.8	1315.2	516.7	336.6	292.5	278.4	288.0	303.3	311.7	308.9	308.9
35°	1828.5	1420.8	503.2	345.6	290.8	265.4	272.2	288.6	303.3	306.1	306.1
37.5°	2047.7	1567.6	507.1	349.6	285.7	254.7	258.1	272.2	291.4	300.4	302.7
40°	2296.7	1738.8	529.7	345.6	280.1	245.7	246.2	256.9	273.9	287.4	292.0
42.5°	2553.6	1938.7	571.5	330.9	275.0	237.7	236.1	243.4	254.7	264.3	268.2
45°	2798.2	2144.2	612.7	310.6	268.8	229.8	225.9	228.7	231.0	234.9	237.2
47.5°	3011.6	2288.8	600.9	292.0	260.3	220.8	214.0	212.9	206.1	205.6	205.0
50°	3159.0	2320.4	533.7	273.3	247.9	210.6	199.9	193.1	181.3	175.6	176.2
52.5°	3205.9	2195.6	436.0	254.7	227.6	197.1	181.8	171.1	156.4	151.3	150.8
55°	3143.8	1951.1	348.4	232.1	199.3	179.0	162.1	148.0	136.1	129.9	129.9
57.5°	2991.9	1639.9	275.6	205.6	169.4	158.7	141.7	127.6	117.5	111.2	110.1
60°	2740.0	1302.2	218.0	173.9	144.6	136.7	119.2	110.1	101.1	93.7	92.0
62.5°	2357.7	929.5	171.1	137.8	120.8	111.8	101.6	94.9	84.1	74.0	72.3
65°	1839.8	568.7	132.1	101.1	97.1	92.6	86.4	80.2	67.2	57.0	55.3
67.5°	1160.5	269.4	94.3	76.2	76.8	74.5	71.7	66.6	57.0	48.0	46.9
70°	511.1	130.4	62.1	58.2	57.0	57.0	59.3	57.6	48.6	40.1	38.4
72.5°	173.9	70.0	46.3	44.0	41.2	40.7	49.7	48.0	39.0	31.1	29.4
75°	90.9	46.9	33.9	31.6	24.8	29.9	39.5	37.3	27.7	20.3	18.6
77.5°	59.3	33.3	23.2	20.3	14.1	19.8	29.4	26.0	16.4	10.2	9.0
80°	37.3	22.0	13.6	9.6	6.8	10.7	15.8	11.3	6.2	2.3	1.7
82.5°	19.8	11.3	5.1	3.4	2.8	3.4	4.0	2.8	1.1	0.0	0.0
85°	7.9	4.0	1.7	1.1	0.6	0.0	1.1	0.6	0.0	0.0	0.0
87.5°	2.8	0.6	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)