

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: P939404

Luminaire Tested: **GALN-SB2A-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6076 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

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



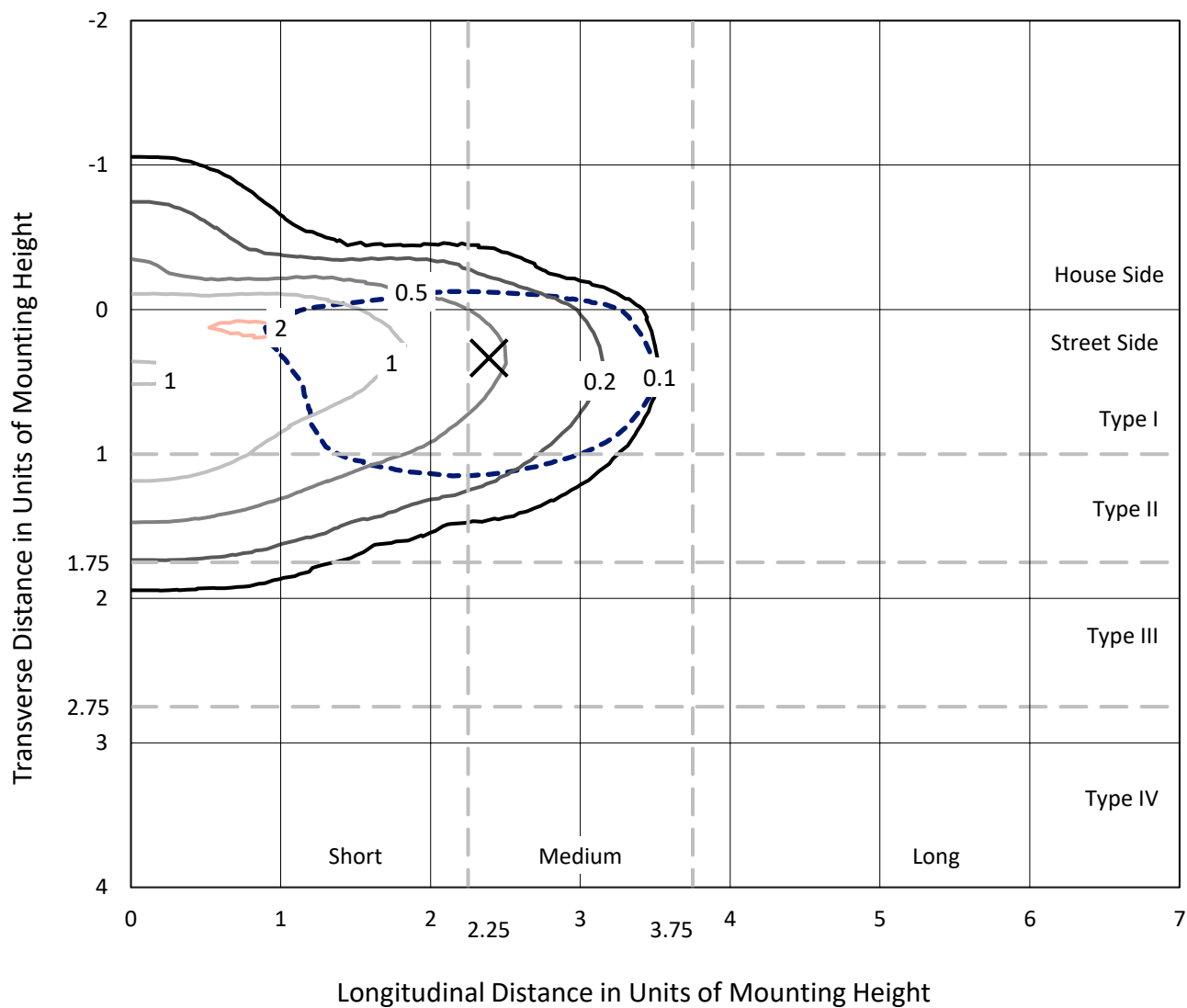
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Iso-Footcandle Lines of Horizontal Illumination

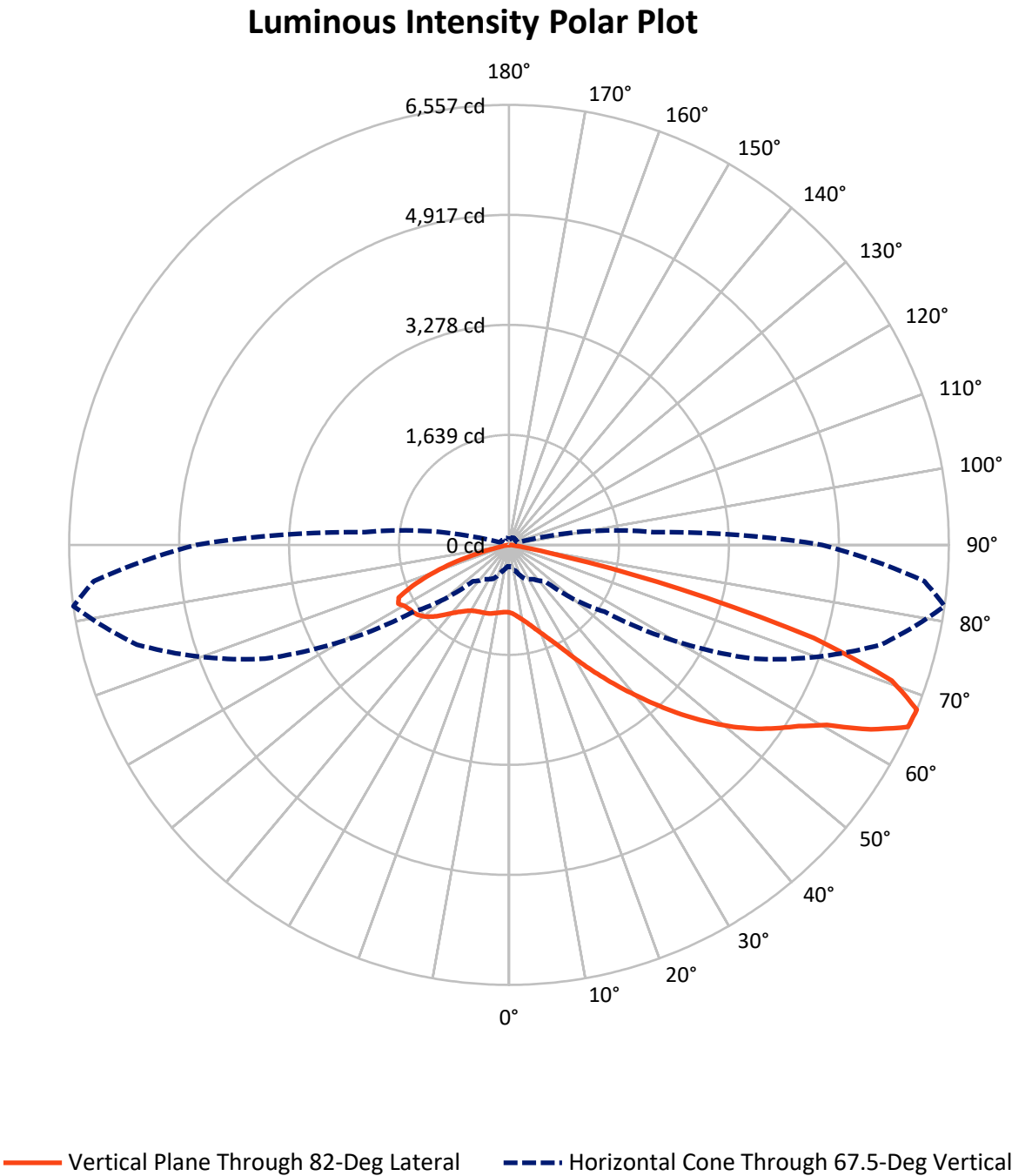
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type II - Medium - N/A

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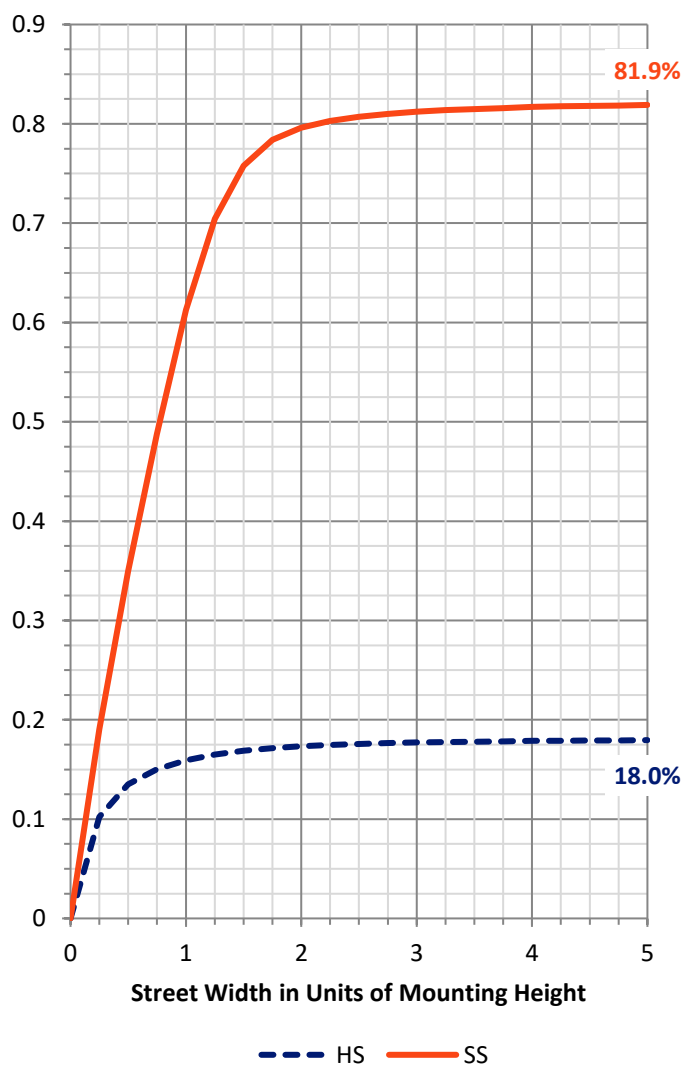
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1100.6	0.0	1100.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4975.4	0.0	4975.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	6076.0	0.0	6076.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.5
10°-20°	233.0	3.8
20°-30°	373.3	6.1
30°-40°	660.0	10.9
40°-50°	1156.4	19.0
50°-60°	1542.4	25.4
60°-70°	1435.9	23.6
70°-80°	551.1	9.1
80°-90°	34.2	0.6
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°	6076.0	100.0
0°-180°	6076.0	100.0

Coefficient of Utilization



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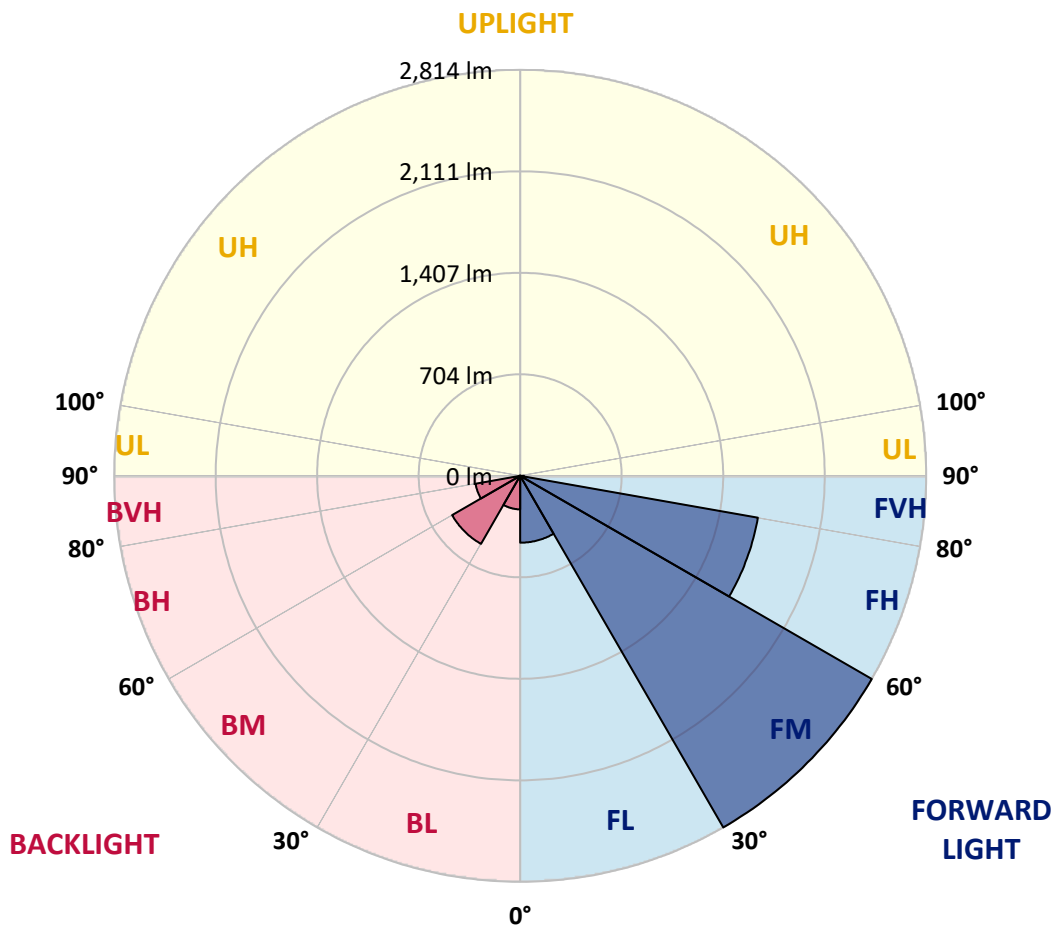
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	463.5	7.6			
FM	(30°-60°)	2814.2	46.3			
FH	(60°-80°)	1672.8	27.5			G1/1800
FVH	(80°-90°)	24.9	0.4			G1/100
BL	(0°-30°)	232.4	3.8	B1/500		
BM	(30°-60°)	544.7	9.0	B1/1000		
BH	(60°-80°)	314.1	5.2	B1/500		G1/500
BVH	(80°-90°)	9.3	0.2			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6
2.5°	1063.9	1070.0	1066.5	1064.8	1061.7	1057.3	1053.8	1042.9	1031.5	1024.1	1021.5
5°	1085.3	1091.5	1091.0	1092.8	1095.0	1096.3	1095.4	1083.1	1067.0	1054.3	1046.8
7.5°	1067.0	1074.0	1079.6	1088.4	1103.7	1119.9	1127.8	1125.1	1108.5	1091.0	1081.8
10°	1014.9	1022.3	1035.9	1056.5	1088.8	1123.8	1153.1	1166.7	1156.2	1136.9	1124.3
12.5°	919.5	927.0	953.7	998.3	1052.5	1113.3	1169.3	1205.6	1208.3	1189.0	1174.1
15°	812.4	819.8	848.2	904.2	986.9	1084.5	1178.1	1246.8	1269.9	1253.3	1235.4
17.5°	745.9	752.4	773.9	818.9	905.1	1026.7	1175.0	1290.5	1343.4	1330.3	1308.9
20°	725.7	731.4	741.5	773.0	844.7	966.8	1154.9	1331.6	1422.6	1415.2	1391.1
22.5°	747.2	752.4	755.5	769.5	814.5	927.4	1129.5	1373.6	1514.5	1515.3	1486.0
25°	796.6	801.9	798.4	807.1	826.8	915.2	1119.9	1423.0	1630.0	1639.6	1606.3
27.5°	878.0	878.4	870.1	869.7	872.7	933.5	1130.0	1476.0	1775.6	1793.6	1752.5
30°	1041.1	1034.6	1002.7	968.1	952.3	988.7	1157.9	1538.5	1947.6	1979.5	1927.9
32.5°	1292.7	1283.1	1224.4	1141.8	1058.6	1077.5	1208.3	1609.8	2134.8	2192.5	2129.5
35°	1565.7	1563.0	1501.8	1378.9	1233.6	1203.9	1290.1	1703.5	2339.1	2430.9	2356.1
37.5°	1819.4	1818.1	1783.1	1638.3	1461.5	1380.2	1421.3	1825.9	2557.8	2690.8	2602.4
40°	2051.2	2055.2	2020.2	1890.7	1712.6	1606.3	1599.8	1977.3	2801.0	2973.8	2868.8
42.5°	2251.6	2256.0	2220.5	2124.7	1960.7	1856.6	1818.9	2162.8	3038.6	3277.9	3153.6
45°	2387.6	2414.8	2409.5	2333.0	2215.3	2107.2	2082.3	2395.5	3309.4	3600.3	3454.6
47.5°	2426.1	2451.1	2490.4	2500.9	2429.2	2322.9	2352.6	2675.9	3583.2	3923.1	3757.3
50°	2331.2	2354.4	2436.2	2545.1	2595.0	2562.2	2615.6	2976.5	3863.6	4245.1	4054.3
52.5°	2144.0	2167.6	2270.8	2443.2	2646.6	2749.9	2879.3	3272.6	4135.3	4550.0	4335.6
55°	1873.2	1898.1	2030.7	2225.8	2548.2	2827.3	3099.4	3568.3	4384.2	4824.3	4589.4
57.5°	1504.9	1523.2	1661.0	1934.0	2300.6	2750.3	3261.7	3891.2	4618.7	5093.7	4840.9
60°	980.8	997.0	1157.1	1461.5	1890.2	2493.1	3294.0	4251.2	4930.1	5444.1	5179.9
62.5°	652.2	663.2	758.1	981.7	1331.2	1999.2	3104.6	4538.6	5386.8	6054.0	5761.3
65°	447.5	458.5	553.4	709.1	860.0	1322.4	2560.0	4500.6	5800.7	6538.2	6192.2
67.5°	319.3	328.5	409.0	556.0	622.5	768.2	1735.4	4014.1	5741.2	6556.6	6215.4
70°	228.8	234.0	300.5	433.1	494.8	461.5	965.0	3070.1	5026.8	6054.4	5742.1
72.5°	160.1	161.9	208.7	329.8	398.5	336.8	459.3	2046.9	3801.9	4752.1	4451.6
75°	108.5	110.7	140.4	241.9	319.8	257.2	243.2	1097.6	2231.9	2630.4	2357.9
77.5°	66.5	67.4	90.6	165.4	239.3	196.0	156.6	465.0	863.5	847.8	722.7
80°	37.6	37.6	57.7	102.8	163.2	126.4	109.8	197.7	273.4	240.2	211.7
82.5°	21.0	21.4	42.0	63.9	108.1	74.8	60.4	91.4	118.1	104.6	91.0
85°	8.7	9.6	25.8	30.2	51.6	37.2	24.5	38.5	43.7	38.9	28.4
87.5°	0.9	1.3	7.9	5.7	6.1	7.4	3.5	7.4	6.1	6.1	4.4
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°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6
2.5°	1013.1	1006.6	990.0	970.7	945.3	933.1	916.5	905.1	895.5	896.3	887.6
5°	1032.8	1016.2	979.0	932.7	874.9	833.8	790.0	759.9	735.4	730.1	718.3
7.5°	1060.0	1033.7	968.5	885.0	787.4	713.5	647.4	605.0	574.8	565.2	555.6
10°	1095.0	1056.9	955.0	825.0	684.6	590.6	519.7	486.5	465.9	458.9	453.6
12.5°	1135.6	1083.6	937.0	752.0	578.8	488.2	443.1	426.5	420.0	417.8	416.5
15°	1186.8	1116.8	909.9	665.4	489.1	425.6	406.4	404.2	405.1	404.2	403.8
17.5°	1247.6	1153.1	865.7	576.1	428.7	393.7	386.7	388.5	390.6	390.2	389.3
20°	1314.1	1189.0	809.3	497.0	387.6	371.0	367.0	368.8	370.5	369.7	369.2
22.5°	1389.8	1227.5	746.7	435.3	360.0	350.0	345.6	346.0	346.0	344.3	343.4
25°	1480.4	1269.9	681.1	391.5	339.0	331.2	325.9	324.2	321.5	316.3	315.4
27.5°	1588.4	1315.0	618.1	360.9	322.4	315.0	308.8	304.5	297.9	289.2	288.3
30°	1710.0	1369.7	564.8	341.7	309.3	301.8	294.8	288.3	278.7	267.7	266.8
32.5°	1853.1	1428.3	525.8	329.0	297.5	289.6	281.3	273.4	262.9	252.0	252.4
35°	2023.7	1499.2	503.1	320.2	288.3	277.8	268.6	259.8	252.0	242.4	241.5
37.5°	2208.7	1574.4	496.1	315.8	282.2	266.0	255.5	249.4	248.5	242.8	242.4
40°	2411.3	1663.6	501.3	313.2	275.6	254.6	243.2	241.9	244.1	234.0	234.5
42.5°	2625.6	1769.5	510.1	310.2	266.4	243.2	232.3	232.3	230.5	216.5	216.5
45°	2857.5	1891.6	518.8	302.7	255.5	231.9	223.5	220.5	213.0	199.5	199.0
47.5°	3091.1	2015.8	525.4	289.2	242.4	222.2	214.8	207.8	196.9	184.6	184.2
50°	3312.9	2127.4	518.4	269.0	227.5	213.0	205.2	195.5	183.7	175.4	174.1
52.5°	3511.0	2224.0	488.6	245.4	211.7	203.4	196.4	186.4	176.7	168.0	167.1
55°	3683.4	2302.3	436.1	223.1	197.7	195.1	188.1	175.4	162.3	154.9	154.0
57.5°	3848.7	2361.8	370.5	204.7	185.0	185.9	175.4	164.0	151.8	143.9	143.0
60°	4068.8	2441.4	304.0	187.7	171.5	174.1	162.7	154.4	139.1	129.0	127.7
62.5°	4420.5	2565.2	241.5	166.7	155.7	156.6	151.8	141.7	123.4	111.6	110.7
65°	4699.6	2519.7	190.3	143.9	137.8	139.1	139.1	128.2	108.5	94.9	93.6
67.5°	4668.1	2157.5	151.8	121.6	120.7	121.6	124.7	115.5	96.2	85.3	83.6
70°	4300.2	1716.1	121.6	101.1	105.0	102.8	111.6	105.4	86.6	75.7	74.4
72.5°	3508.8	1236.3	92.7	83.6	80.5	84.0	100.6	94.9	72.2	59.9	58.6
75°	2050.4	659.7	69.1	66.1	58.2	70.0	89.2	80.9	55.1	44.2	42.9
77.5°	667.6	230.1	50.7	48.6	43.3	56.4	76.1	68.2	45.1	35.0	33.7
80°	178.9	69.6	34.6	31.9	28.0	42.0	60.4	54.2	32.4	22.7	22.3
82.5°	71.7	29.3	20.1	17.9	15.3	28.9	47.7	43.7	24.1	14.4	14.4
85°	23.2	9.6	7.4	5.7	7.0	17.9	28.4	29.7	17.1	7.4	5.7
87.5°	3.1	1.3	1.3	1.7	1.3	3.1	8.7	8.3	4.8	0.9	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)