

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: P947743

Luminaire Tested: **GALN-SB3A-730-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-730-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10286 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.7
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

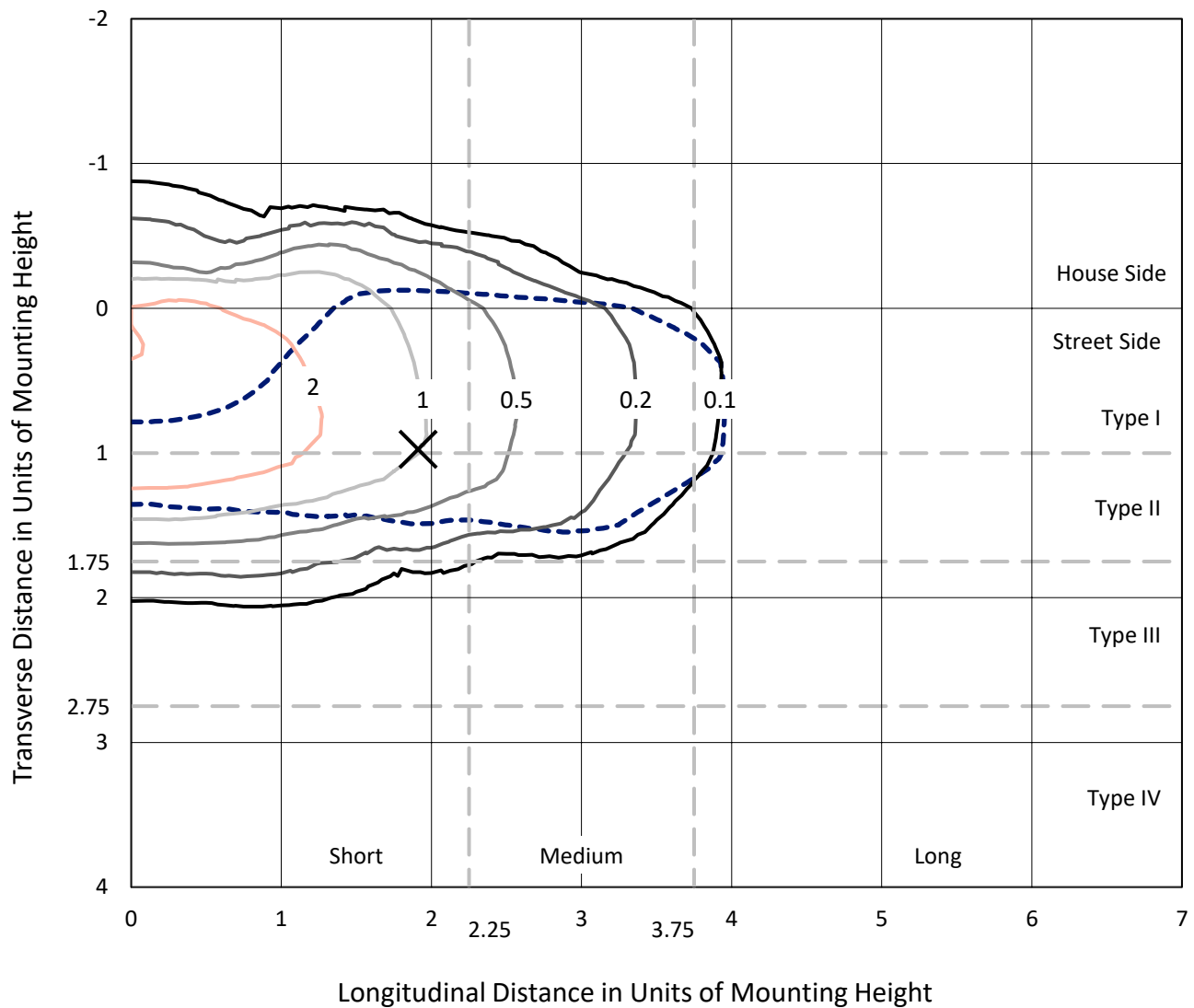


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

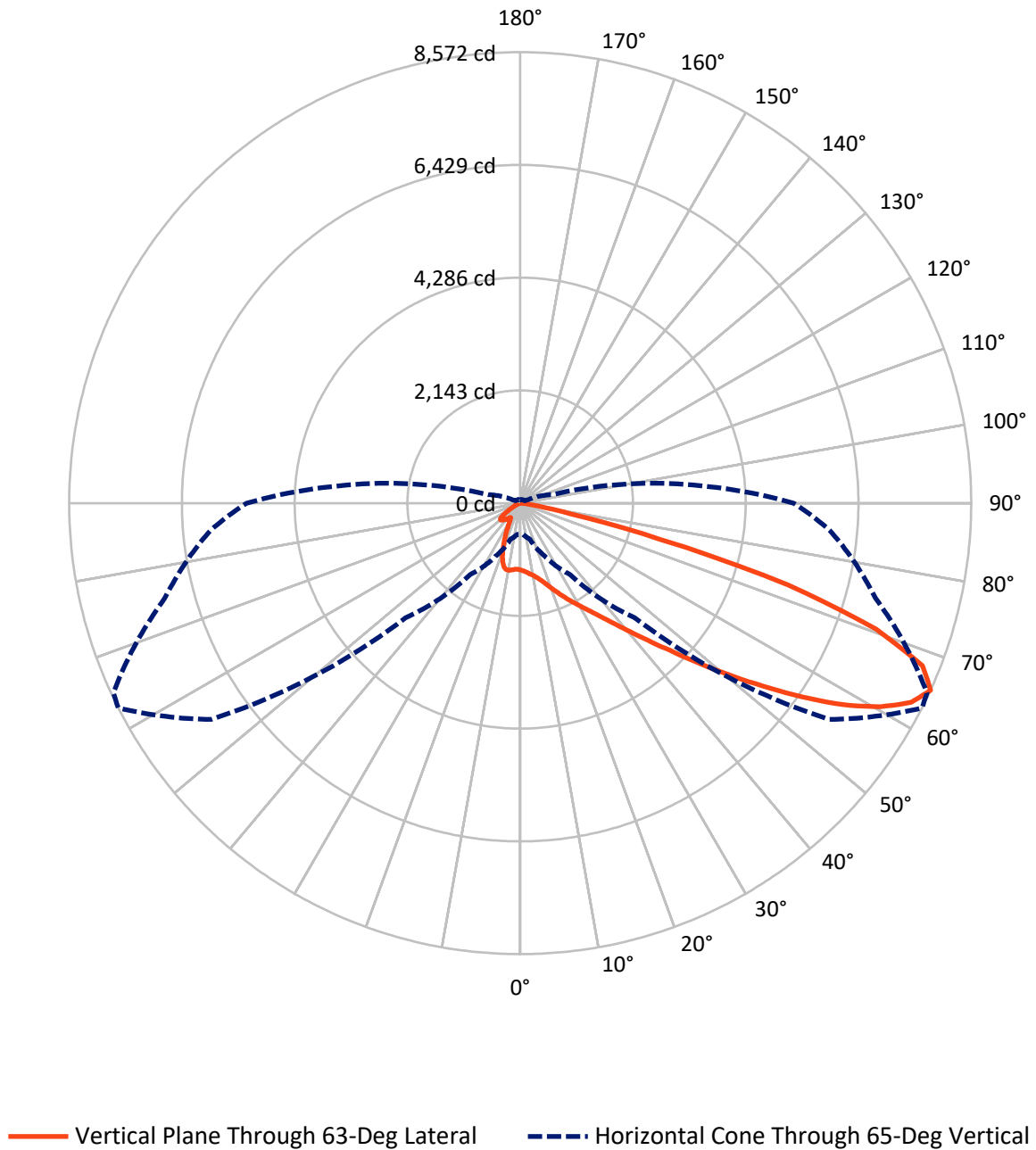


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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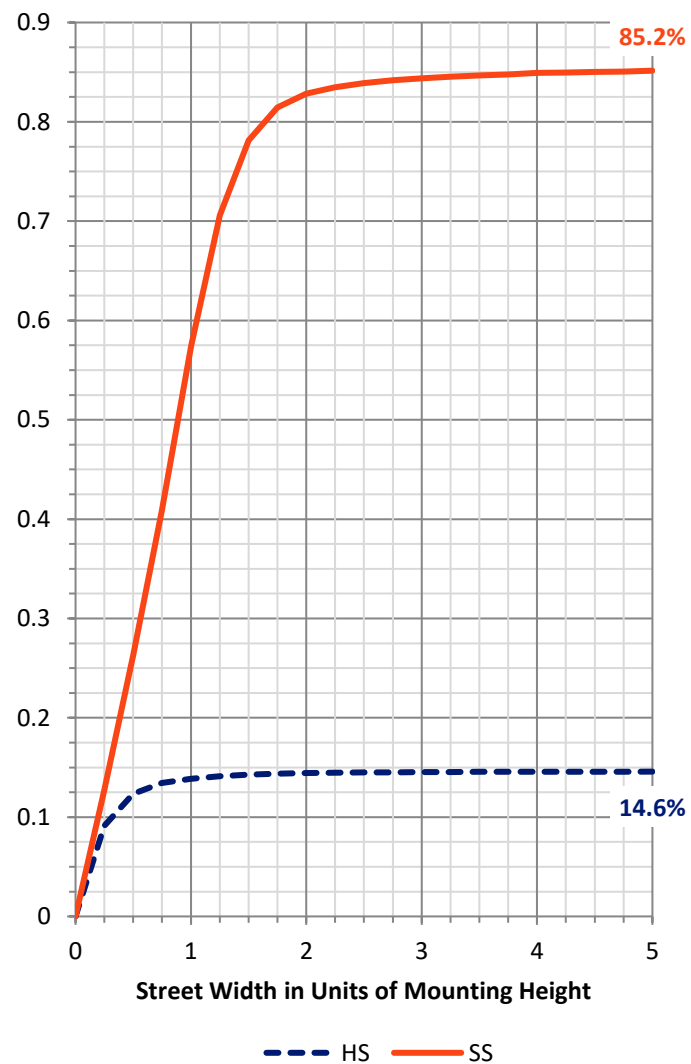
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1512.0	0.0	1512.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	8774.0	0.0	8774.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	10286.0	0.0	10286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	1.2
10°-20°	331.9	3.2
20°-30°	577.9	5.6
30°-40°	1041.6	10.1
40°-50°	2065.7	20.1
50°-60°	2813.9	27.4
60°-70°	2246.0	21.8
70°-80°	1016.4	9.9
80°-90°	73.1	0.7
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°	10286.0	100.0
0°-180°	10286.0	100.0

Coefficient of Utilization



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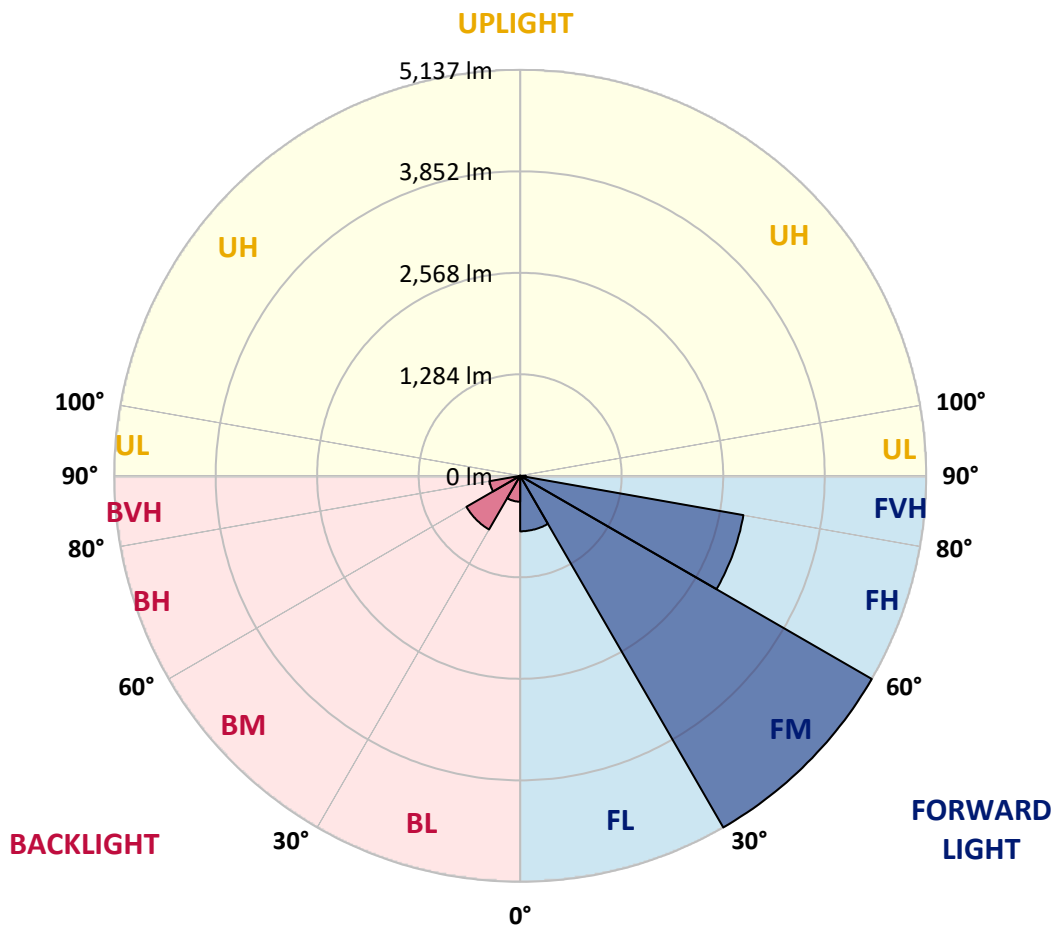
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	702.1	6.8			
FM	(30°-60°)	5136.6	49.9			
FH	(60°-80°)	2867.7	27.9			G2/5000
FVH	(80°-90°)	67.6	0.7			G1/100
BL	(0°-30°)	327.2	3.2	B1/500		
BM	(30°-60°)	784.6	7.6	B1/1000		
BH	(60°-80°)	394.7	3.8	B1/500		G1/500
BVH	(80°-90°)	5.4	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5
2.5°	1299.2	1295.7	1300.6	1298.5	1297.1	1294.3	1292.8	1291.4	1288.6	1286.5	1278.0
5°	1302.7	1300.6	1305.6	1309.8	1314.1	1318.3	1320.4	1323.3	1320.4	1314.8	1306.3
7.5°	1273.0	1271.6	1282.2	1295.0	1314.1	1330.3	1348.0	1357.9	1358.6	1356.5	1347.3
10°	1270.9	1267.4	1278.0	1293.5	1318.3	1347.3	1378.5	1399.7	1402.5	1411.7	1401.8
12.5°	1304.2	1300.6	1315.5	1332.5	1357.9	1388.4	1426.6	1456.3	1460.5	1473.3	1466.2
15°	1360.1	1355.1	1372.1	1394.0	1426.6	1461.3	1501.6	1528.5	1532.0	1547.6	1534.8
17.5°	1425.2	1420.2	1440.0	1463.4	1498.8	1546.2	1592.9	1622.6	1626.8	1636.7	1613.4
20°	1508.7	1502.3	1517.9	1539.1	1576.6	1633.2	1689.1	1731.6	1730.9	1730.9	1692.6
22.5°	1605.6	1595.7	1609.1	1626.1	1661.5	1730.2	1804.5	1854.7	1854.7	1834.9	1771.9
25°	1709.6	1699.7	1714.6	1730.2	1761.3	1839.1	1926.2	1988.4	1991.3	1957.3	1856.8
27.5°	1839.8	1827.1	1838.4	1856.8	1875.2	1954.5	2057.8	2130.0	2131.4	2079.0	1937.5
30°	2090.3	2054.2	2018.9	1999.1	2007.5	2086.1	2196.5	2276.4	2283.5	2211.3	2025.2
32.5°	2548.9	2541.8	2417.3	2254.5	2169.6	2227.6	2351.5	2447.7	2451.9	2359.2	2139.2
35°	3261.5	3253.0	3052.7	2742.8	2466.1	2417.3	2539.7	2653.6	2650.8	2546.0	2287.1
37.5°	4112.0	4104.2	3840.3	3425.6	2977.7	2703.9	2782.4	2902.0	2919.7	2782.4	2478.1
40°	4838.8	4809.8	4642.8	4242.9	3657.0	3179.4	3127.7	3207.0	3225.4	3062.6	2720.8
42.5°	5389.3	5364.5	5279.6	5029.8	4479.3	3882.8	3534.6	3565.0	3585.6	3390.3	2999.6
45°	5674.5	5668.8	5702.8	5679.4	5317.1	4746.1	4116.3	3989.6	3997.4	3753.3	3316.0
47.5°	5714.8	5712.0	5867.0	6086.3	6037.5	5719.8	4862.8	4518.9	4491.3	4163.0	3659.9
50°	5477.0	5471.4	5768.6	6179.7	6518.7	6537.8	5710.6	5115.5	5054.6	4586.9	4018.6
52.5°	4717.8	4716.3	5204.6	5888.9	6687.8	7253.9	6548.4	5770.7	5668.8	5035.5	4397.9
55°	3630.1	3656.3	4216.1	5024.9	6379.3	7598.5	7300.6	6498.2	6341.8	5487.0	4747.5
57.5°	2571.5	2609.7	3163.1	3883.5	5422.6	7394.7	7809.4	7227.0	7058.6	5937.0	5102.0
60°	1381.3	1415.3	1969.3	2829.1	4034.2	6634.7	8077.6	7859.6	7700.4	6364.4	5421.9
62.5°	823.0	834.3	1063.6	1826.4	2728.6	5068.7	7963.7	8341.5	8210.6	6723.2	5700.0
65°	590.9	593.0	708.3	1115.2	1656.6	3079.6	7164.7	8572.2	8531.9	6993.5	5905.9
67.5°	497.5	496.0	544.2	740.9	1128.7	1542.6	5491.2	8246.0	8417.2	7164.7	6022.6
70°	426.7	428.8	485.4	542.8	848.4	873.2	2730.0	7179.6	7544.7	7210.0	6015.6
72.5°	317.7	324.8	377.2	494.6	640.4	600.8	942.6	5323.5	5983.7	6793.2	5703.5
75°	224.3	227.9	265.4	416.1	477.6	437.3	481.2	2752.0	3598.3	5208.2	4668.2
77.5°	172.7	179.0	201.0	290.8	470.6	307.1	294.4	952.5	1463.4	3146.1	3200.6
80°	93.4	104.7	145.1	210.2	330.5	217.2	145.8	379.3	496.0	1471.2	1234.1
82.5°	48.1	53.8	101.2	151.4	188.2	189.6	72.2	157.8	204.5	454.3	169.1
85°	19.1	23.4	67.9	83.5	96.9	93.4	32.6	63.7	73.6	126.0	51.7
87.5°	4.2	7.1	24.8	19.1	18.4	19.8	7.8	14.9	14.2	14.9	9.2
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°	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5
2.5°	1277.3	1274.4	1266.7	1258.2	1248.3	1242.6	1239.1	1238.4	1233.4	1229.9	1233.4
5°	1298.5	1295.7	1280.8	1263.1	1244.0	1229.2	1215.0	1202.3	1183.9	1180.3	1178.9
7.5°	1341.0	1333.2	1309.1	1285.1	1249.0	1205.8	1153.4	1093.3	1039.5	1023.2	1015.4
10°	1393.3	1382.7	1352.3	1309.8	1229.9	1112.4	985.7	868.3	774.9	748.7	738.8
12.5°	1452.8	1443.6	1403.2	1324.7	1149.9	936.9	743.0	597.2	506.7	484.0	477.6
15°	1523.5	1510.1	1454.2	1302.0	1007.0	711.9	510.2	423.9	391.3	387.1	382.8
17.5°	1598.5	1576.6	1499.5	1220.7	814.5	506.0	394.1	369.4	355.2	351.0	348.9
20°	1667.2	1638.9	1526.4	1097.5	608.6	394.1	353.1	336.8	324.1	319.1	316.3
22.5°	1735.8	1695.5	1526.4	929.8	456.4	349.6	324.1	309.2	294.4	288.0	284.5
25°	1807.3	1753.5	1499.5	743.0	367.3	320.6	296.5	280.2	267.5	259.7	256.9
27.5°	1876.6	1802.3	1437.9	566.1	326.9	295.1	271.0	255.5	243.4	237.8	237.8
30°	1942.4	1850.5	1351.6	429.5	300.7	270.3	247.7	234.2	222.2	216.5	217.2
32.5°	2031.6	1911.3	1259.6	352.4	278.1	247.0	226.4	213.7	203.1	198.8	198.8
35°	2155.4	2001.2	1180.3	346.0	259.0	227.9	207.3	195.3	184.7	181.2	181.2
37.5°	2330.9	2146.2	1138.6	388.5	243.4	210.9	191.8	179.0	169.1	166.3	165.6
40°	2547.5	2343.0	1161.2	430.9	232.8	196.0	177.6	164.9	156.4	152.8	152.1
42.5°	2804.3	2585.7	1286.5	463.5	225.7	183.3	164.2	150.0	144.4	142.9	142.9
45°	3099.4	2852.5	1478.2	498.2	214.4	171.2	150.7	140.1	135.9	135.2	134.4
47.5°	3434.8	3145.4	1700.4	541.3	203.1	159.9	140.1	133.0	129.5	128.1	128.1
50°	3767.4	3440.5	1929.0	565.4	193.9	149.3	131.6	126.0	123.1	122.4	122.4
52.5°	4115.6	3744.1	2113.7	542.8	186.1	140.8	124.5	120.3	117.5	116.8	116.8
55°	4447.4	3989.6	2145.5	460.7	170.5	132.3	116.8	114.6	111.1	111.1	110.4
57.5°	4733.3	4112.7	1920.5	338.2	155.0	119.6	109.0	106.9	104.0	103.3	102.6
60°	4995.9	4077.4	1482.5	227.9	138.0	106.9	99.1	97.7	94.8	91.3	90.6
62.5°	5143.8	3921.7	1014.0	148.6	121.0	93.4	87.7	87.0	80.7	73.6	72.2
65°	5199.7	3601.8	632.6	108.3	101.2	80.0	75.7	74.3	65.1	57.3	56.6
67.5°	5150.8	3075.4	319.1	85.6	80.0	66.5	62.3	62.3	55.9	48.8	48.1
70°	4955.5	2305.5	134.4	68.6	61.6	50.9	50.9	53.8	47.4	39.6	38.9
72.5°	4531.7	1551.1	71.5	52.4	46.0	36.1	41.8	43.9	37.5	29.7	29.7
75°	3602.5	946.1	49.5	38.9	29.0	25.5	31.8	33.3	25.5	19.8	19.1
77.5°	2464.0	543.5	33.3	24.8	18.4	14.9	21.9	20.5	13.4	9.2	9.9
80°	1082.0	226.4	19.1	11.3	7.1	5.7	7.8	5.7	4.2	2.8	2.8
82.5°	126.7	53.1	7.1	4.2	2.8	1.4	0.7	0.0	0.0	0.0	0.0
85°	26.2	6.4	3.5	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	1.4	0.7	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)