

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: P939746

Luminaire Tested: **GALN-SB2C-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10895 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 100.9
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

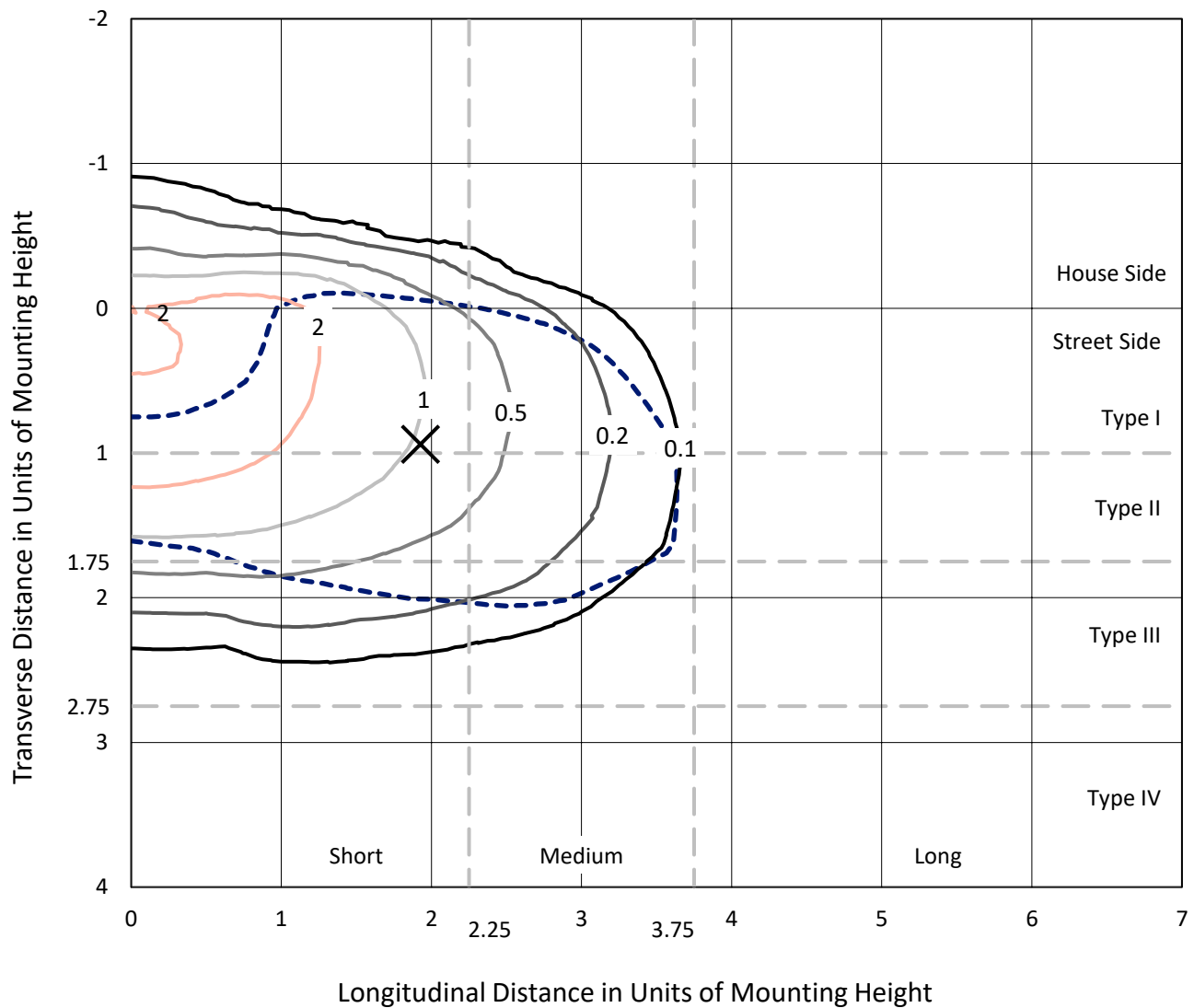


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

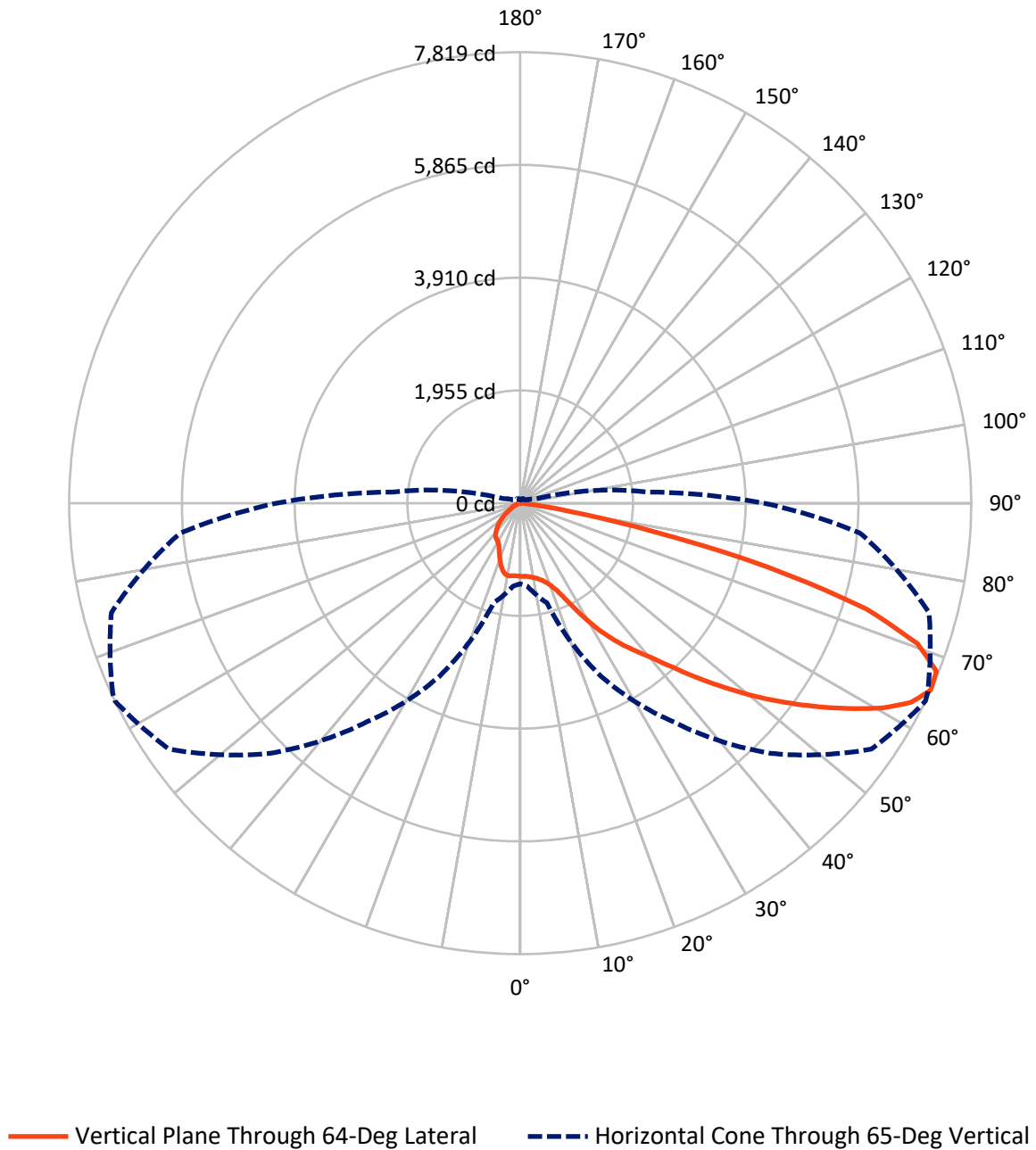


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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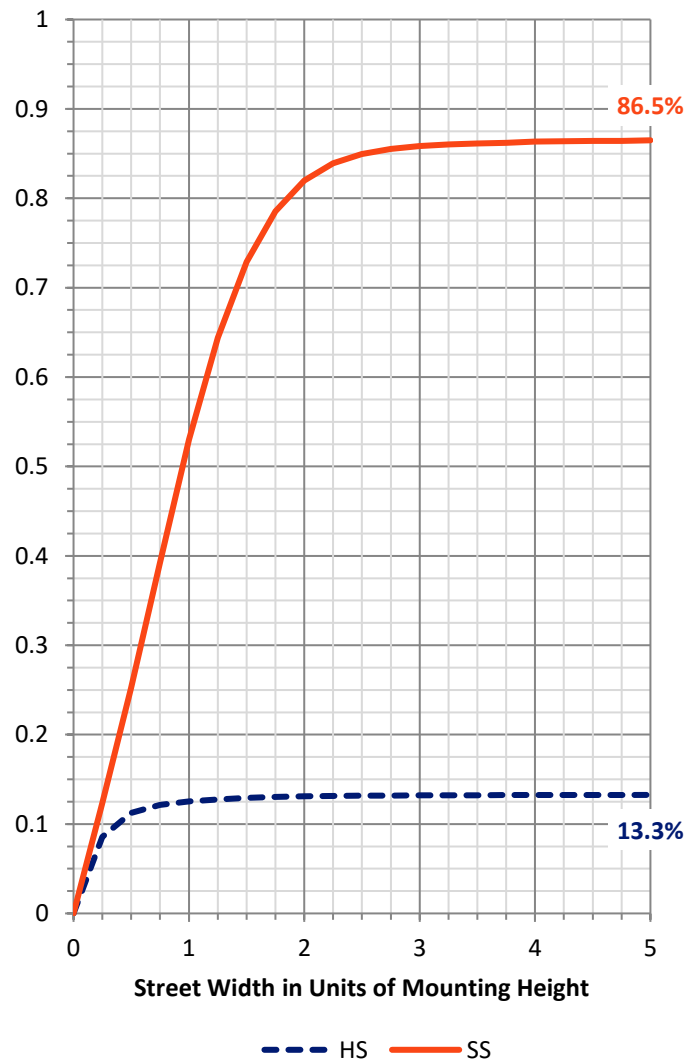
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1457.0	0.0	1457.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	9438.0	0.0	9438.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	10895.0	0.0	10895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	1.1
10°-20°	317.1	2.9
20°-30°	600.9	5.5
30°-40°	1215.9	11.2
40°-50°	2071.3	19.0
50°-60°	2816.8	25.9
60°-70°	2645.1	24.3
70°-80°	1059.7	9.7
80°-90°	51.3	0.5
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°	10895.0	100.0
0°-180°	10895.0	100.0

Coefficient of Utilization



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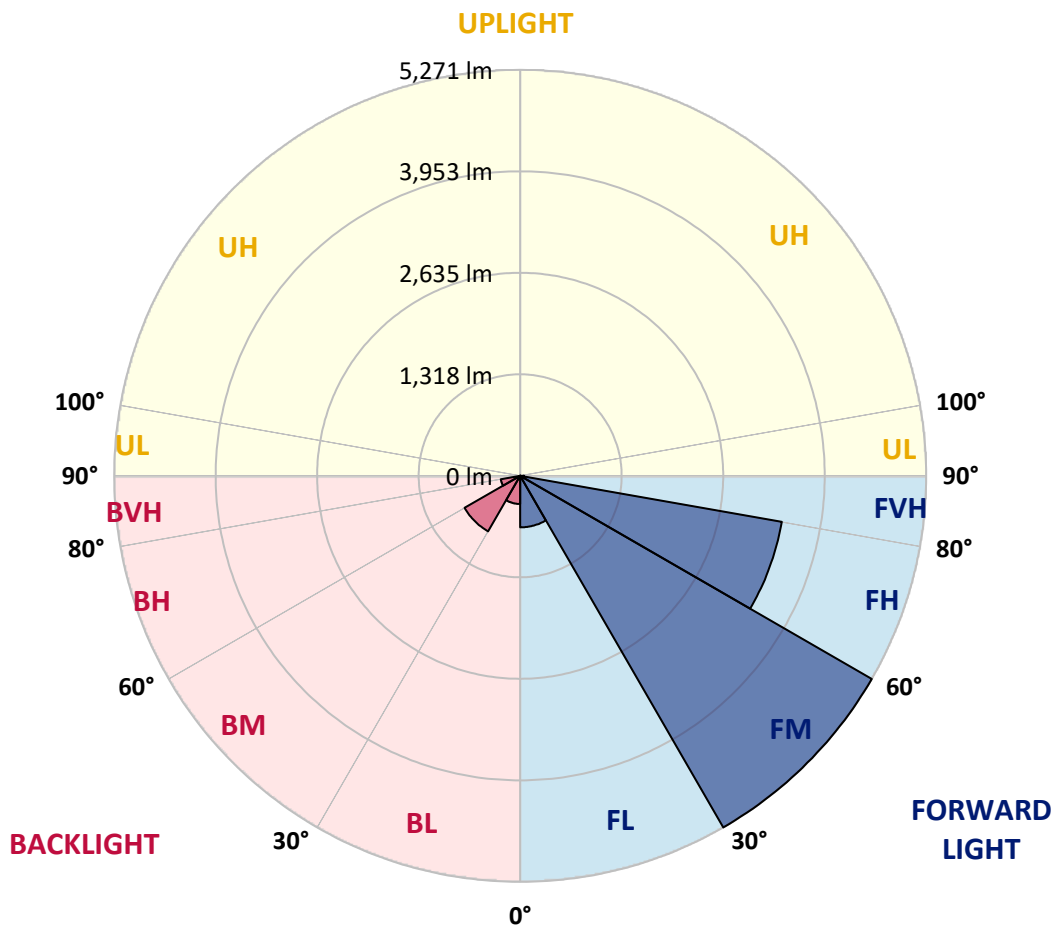
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	669.1	6.1			
FM	(30°-60°)	5271.0	48.4			
FH	(60°-80°)	3449.1	31.7			G2/5000
FVH	(80°-90°)	48.8	0.4			G1/100
BL	(0°-30°)	365.8	3.4	B1/500		
BM	(30°-60°)	832.9	7.6	B1/1000		
BH	(60°-80°)	255.7	2.3	B1/500		G1/500
BVH	(80°-90°)	2.5	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1267.2	1267.2	1267.2	1267.2	1267.2	1267.2	1267.2	1267.2	1267.2	1267.2	1267.2
2.5°	1262.8	1271.6	1269.4	1267.2	1266.5	1267.9	1268.7	1267.9	1267.9	1267.9	1268.7
5°	1238.7	1246.0	1246.0	1251.1	1258.4	1267.2	1273.8	1275.2	1276.7	1278.9	1278.2
7.5°	1192.7	1198.5	1202.9	1219.7	1238.0	1261.4	1281.1	1291.3	1292.8	1300.8	1303.7
10°	1161.3	1168.6	1175.9	1193.4	1219.7	1254.8	1288.4	1313.2	1316.9	1335.9	1344.6
12.5°	1159.8	1167.1	1176.6	1195.6	1226.3	1263.5	1304.5	1340.2	1346.8	1374.6	1392.8
15°	1175.2	1183.9	1192.7	1216.1	1248.9	1294.2	1338.0	1382.6	1389.2	1428.6	1448.3
17.5°	1206.6	1218.3	1224.8	1248.2	1283.3	1333.7	1391.4	1442.5	1448.3	1494.3	1519.2
20°	1268.7	1282.5	1284.7	1303.7	1338.0	1392.1	1460.8	1524.3	1531.6	1584.2	1611.9
22.5°	1397.2	1416.9	1399.4	1408.9	1439.6	1493.6	1568.1	1648.5	1658.7	1718.6	1743.4
25°	1623.6	1651.4	1606.1	1590.0	1603.2	1659.4	1752.9	1854.4	1866.1	1914.3	1926.7
27.5°	2068.4	2032.6	1964.0	1896.8	1857.3	1889.5	1994.7	2120.3	2134.9	2181.6	2167.0
30°	2557.0	2525.6	2432.9	2283.9	2190.4	2185.3	2282.4	2422.7	2439.5	2484.0	2439.5
32.5°	3046.4	3016.5	2915.7	2732.3	2570.2	2489.9	2557.0	2712.6	2721.4	2749.9	2684.1
35°	3527.7	3497.0	3396.2	3208.5	3009.1	2826.6	2813.4	2988.7	2991.6	3021.6	2923.7
37.5°	4012.0	3986.4	3879.0	3695.0	3498.5	3246.5	3124.5	3250.2	3253.8	3283.0	3181.5
40°	4357.4	4368.4	4294.6	4152.2	3983.5	3708.1	3473.7	3528.4	3506.5	3555.5	3494.8
42.5°	4654.0	4675.9	4611.6	4540.0	4442.1	4199.7	3906.0	3896.6	3861.5	3887.8	3825.0
45°	4910.3	4928.6	4870.9	4854.1	4851.9	4681.7	4378.6	4321.6	4272.7	4267.6	4192.4
47.5°	5004.5	5039.6	5064.4	5120.7	5230.2	5158.6	4867.2	4778.8	4724.1	4683.9	4564.8
50°	5040.3	5077.6	5162.3	5325.9	5585.2	5615.9	5353.7	5254.3	5187.1	5114.1	4938.8
52.5°	4992.1	5058.6	5172.5	5447.9	5824.0	5982.5	5820.4	5733.4	5656.8	5537.7	5277.7
55°	4708.0	4774.5	5007.5	5446.4	5943.1	6239.6	6261.5	6222.8	6136.6	5948.9	5551.6
57.5°	4109.1	4207.7	4576.5	5260.9	5940.9	6460.9	6693.9	6721.6	6625.2	6356.5	5767.0
60°	3279.4	3413.0	3863.0	4849.7	5757.6	6580.7	7073.0	7211.7	7109.5	6758.2	5941.6
62.5°	2288.3	2443.1	2868.9	4205.5	5338.3	6494.5	7349.8	7606.1	7528.7	7117.5	6008.8
65°	1395.7	1445.4	1788.7	3309.3	4625.5	6133.7	7435.2	7819.4	7793.8	7337.4	5909.5
67.5°	929.8	971.4	1070.0	2269.3	3590.5	5412.8	7230.7	7782.2	7789.5	7301.6	5545.7
70°	560.2	596.0	660.3	1319.8	2327.0	4284.4	6597.5	7307.4	7349.8	6823.2	4856.3
72.5°	230.8	254.9	313.3	598.2	1205.1	2719.2	5253.6	6273.9	6372.5	5737.1	3727.1
75°	130.7	143.2	184.1	300.2	522.9	1267.2	3182.2	4453.8	4599.2	3954.3	2242.3
77.5°	86.9	92.8	119.1	194.3	294.3	432.4	1360.0	2320.4	2597.9	2159.7	970.7
80°	58.4	63.5	81.8	130.0	191.4	185.5	433.1	859.7	1057.6	742.1	236.6
82.5°	39.4	40.2	58.4	85.5	121.2	89.8	127.8	267.3	336.0	214.7	89.8
85°	22.6	21.9	43.1	49.7	54.0	37.2	38.7	80.3	105.2	90.6	51.1
87.5°	2.9	4.4	16.8	13.1	7.3	8.0	8.0	13.9	20.5	21.9	11.0
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°	1267.2	1267.2	1267.2	1267.2	1267.2	1267.2	1267.2	1267.2	1267.2	1267.2	1267.2
2.5°	1268.7	1267.9	1265.7	1263.5	1258.4	1255.5	1257.0	1255.5	1254.8	1255.5	1258.4
5°	1278.2	1276.0	1270.1	1262.8	1252.6	1240.2	1232.1	1220.5	1209.5	1202.9	1204.4
7.5°	1303.7	1301.5	1293.5	1273.0	1240.2	1188.3	1140.8	1099.2	1067.8	1049.5	1050.3
10°	1344.6	1341.0	1328.6	1283.3	1197.1	1083.9	989.7	911.5	860.4	836.3	834.1
12.5°	1392.8	1388.4	1366.5	1273.8	1115.3	938.5	808.5	721.6	674.1	653.0	650.8
15°	1449.8	1444.0	1400.9	1228.5	996.2	777.8	658.8	593.8	563.1	544.1	544.9
17.5°	1520.6	1510.4	1426.4	1160.6	867.0	655.1	566.8	517.8	490.8	472.6	471.1
20°	1612.7	1595.9	1446.9	1079.5	747.9	577.7	504.7	463.8	443.3	427.3	424.3
22.5°	1741.2	1717.1	1471.7	991.9	663.9	524.4	458.7	428.7	411.9	393.7	390.8
25°	1900.4	1872.0	1502.4	910.8	606.2	478.4	425.1	400.2	380.5	359.3	357.2
27.5°	2123.2	2072.1	1538.9	844.3	556.5	439.0	394.4	366.6	344.0	326.5	322.8
30°	2371.5	2287.5	1571.0	804.1	511.3	402.4	354.2	326.5	305.3	292.9	290.7
32.5°	2606.7	2492.8	1592.2	786.6	470.4	360.8	310.4	280.5	264.4	260.7	262.9
35°	2828.7	2678.3	1590.0	769.8	433.8	319.2	267.3	236.6	224.2	226.4	226.4
37.5°	3084.4	2876.2	1574.7	743.5	403.9	281.2	230.1	203.0	192.1	192.8	195.7
40°	3381.6	3104.8	1565.2	693.9	371.0	246.1	199.4	177.5	169.4	166.5	165.8
42.5°	3698.6	3326.1	1566.7	637.6	330.1	214.7	178.2	160.0	152.6	150.5	149.7
45°	4017.1	3537.2	1568.8	579.2	287.0	190.6	162.9	147.5	143.2	140.2	140.2
47.5°	4316.5	3716.9	1527.9	516.4	244.7	172.4	150.5	140.2	136.6	132.9	132.9
50°	4595.5	3836.7	1429.3	443.3	211.1	157.8	141.0	133.7	130.0	126.4	126.4
52.5°	4812.4	3855.7	1266.5	368.1	187.7	146.8	135.1	128.5	124.2	120.5	119.8
55°	4908.9	3736.6	1034.9	298.0	169.4	137.3	129.3	122.7	117.6	113.9	113.2
57.5°	4884.0	3486.1	807.1	239.6	151.9	127.8	122.0	117.6	111.7	105.9	105.2
60°	4762.0	3150.8	608.4	199.4	135.8	117.6	113.9	110.3	102.3	93.5	92.0
62.5°	4551.0	2729.4	433.8	165.1	118.3	105.9	104.4	101.5	89.8	73.8	72.3
65°	4228.1	2217.4	292.2	137.3	101.5	92.8	93.5	88.4	73.0	54.8	53.3
67.5°	3756.3	1621.4	187.0	112.5	84.7	77.4	78.2	75.2	62.1	46.7	44.6
70°	3155.2	1073.7	122.0	85.5	67.9	59.9	64.3	65.0	52.6	38.0	36.5
72.5°	2313.1	634.0	85.5	63.5	49.7	41.6	52.6	54.0	42.4	28.5	27.0
75°	1318.3	300.9	64.3	46.0	30.7	29.2	40.9	40.9	29.2	19.0	17.5
77.5°	553.6	125.6	45.3	29.9	17.5	16.8	27.8	25.6	14.6	8.8	8.8
80°	160.0	56.2	24.1	14.6	7.3	6.6	11.0	8.0	3.7	1.5	1.5
82.5°	62.8	24.8	9.5	5.8	2.9	2.9	1.5	0.0	0.0	0.0	0.0
85°	37.2	10.2	4.4	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	2.2	1.5	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)