

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: P940256

Luminaire Tested: **GALN-SB3B-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940256
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-SB3B-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA 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: 12290 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 109.2
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

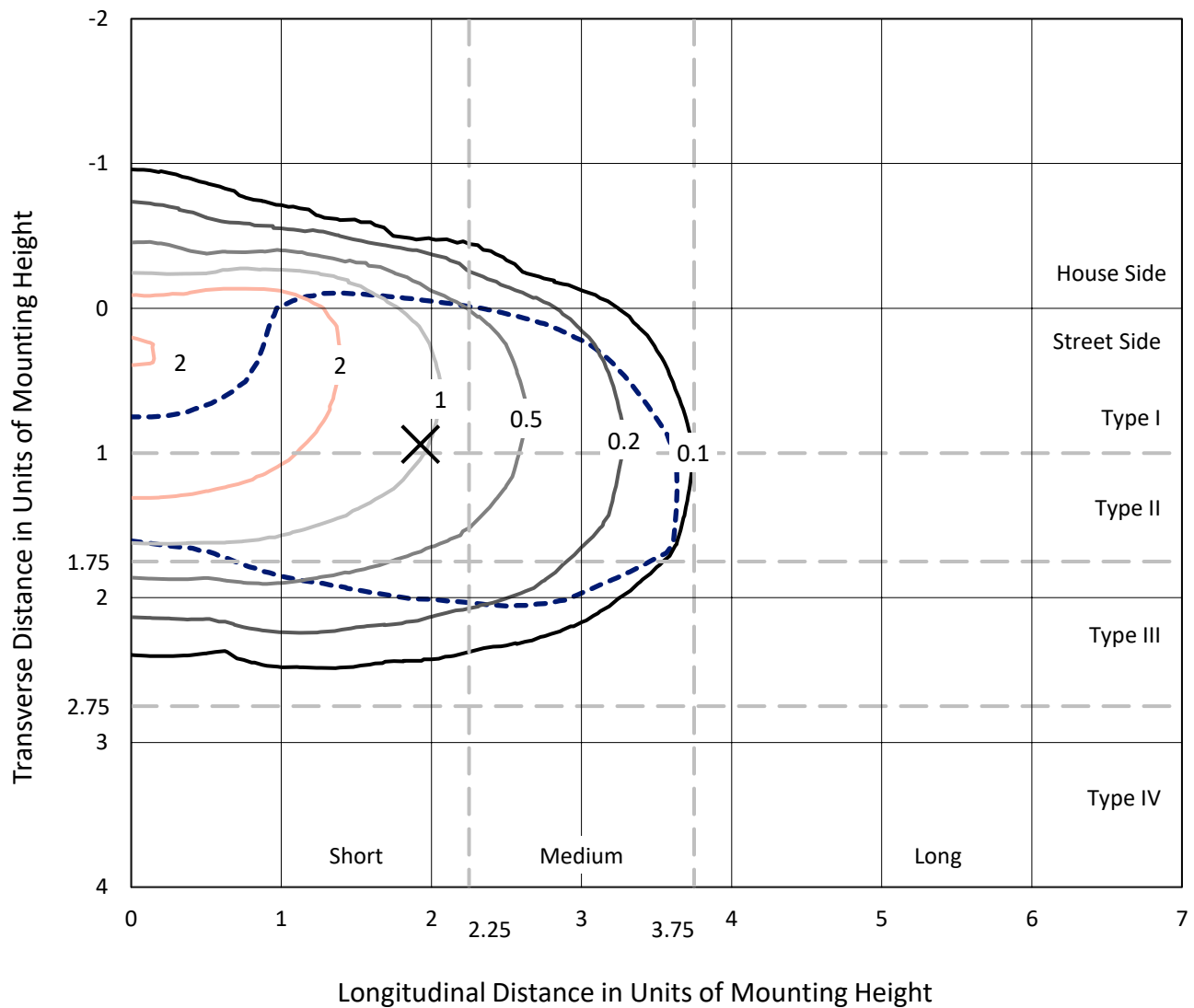


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

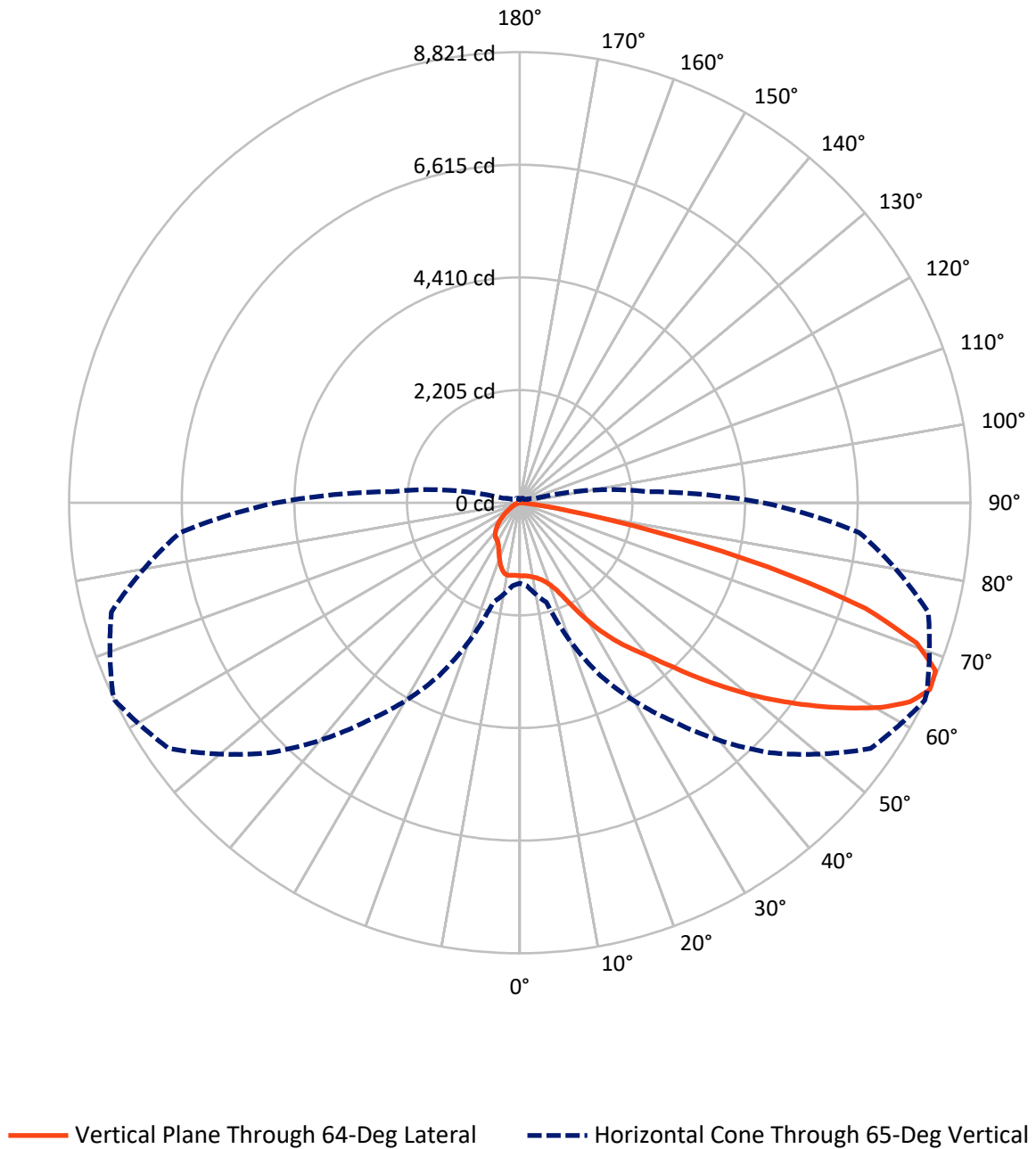


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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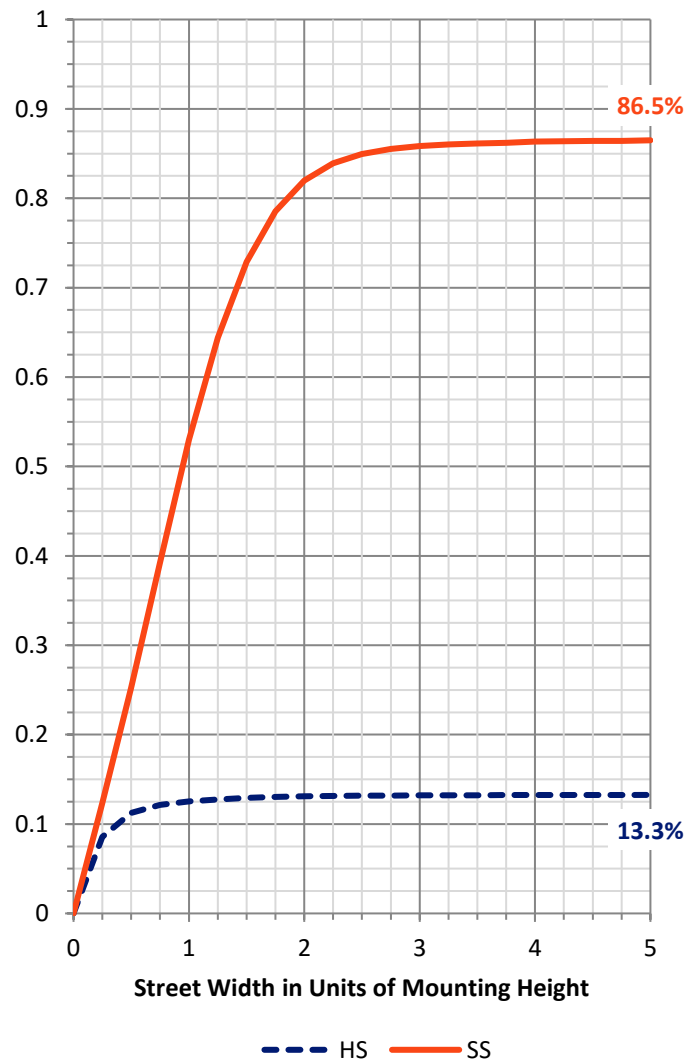
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1643.5	0.0	1643.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	10646.5	0.0	10646.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	12290.0	0.0	12290.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	1.1
10°-20°	357.7	2.9
20°-30°	677.8	5.5
30°-40°	1371.6	11.2
40°-50°	2336.5	19.0
50°-60°	3177.4	25.9
60°-70°	2983.8	24.3
70°-80°	1195.4	9.7
80°-90°	57.9	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°	12290.0	100.0
0°-180°	12290.0	100.0

Coefficient of Utilization



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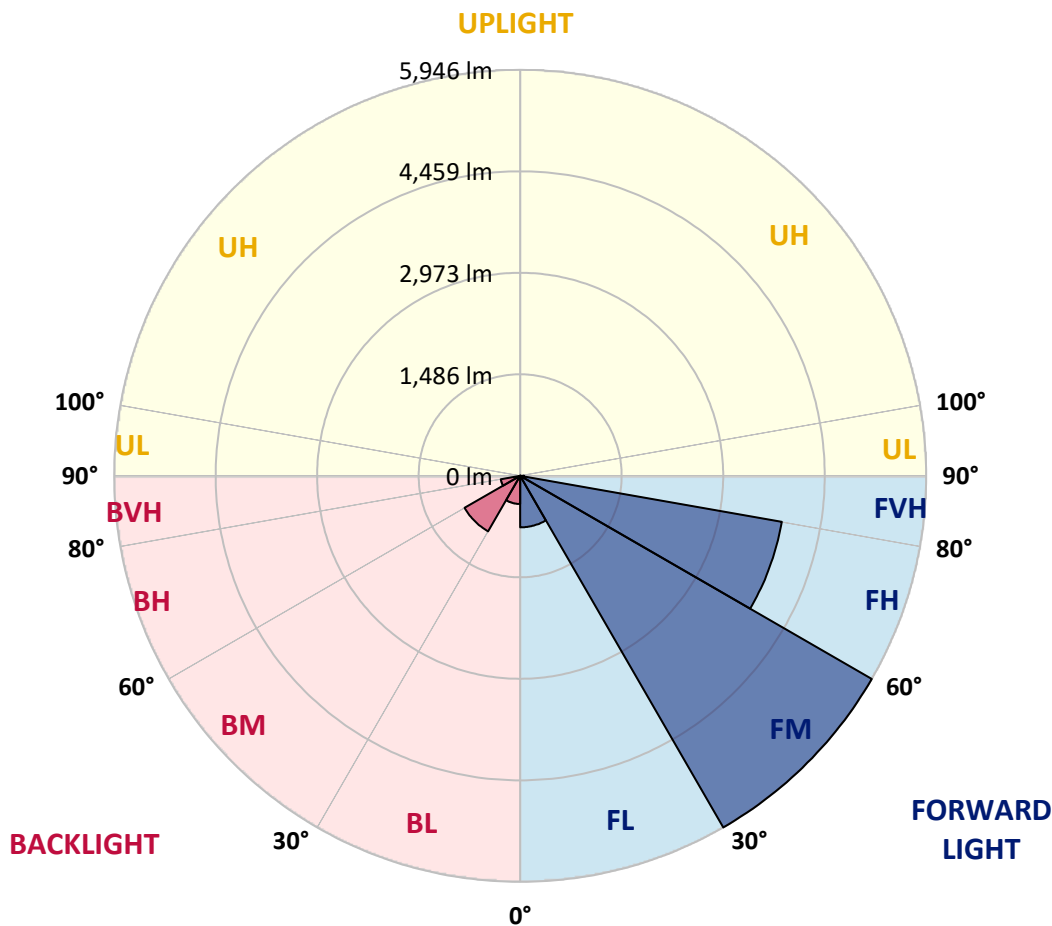
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	754.7	6.1			
FM	(30°-60°)	5945.9	48.4			
FH	(60°-80°)	3890.7	31.7			G2/5000
FVH	(80°-90°)	55.1	0.4			G1/100
BL	(0°-30°)	412.6	3.4	B1/500		
BM	(30°-60°)	939.6	7.6	B1/1000		
BH	(60°-80°)	288.5	2.3	B1/500		G1/500
BVH	(80°-90°)	2.8	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°	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5
2.5°	1424.5	1434.4	1431.9	1429.5	1428.6	1430.3	1431.1	1430.3	1430.3	1430.3	1431.1
5°	1397.3	1405.6	1405.6	1411.3	1419.6	1429.5	1436.9	1438.5	1440.2	1442.6	1441.8
7.5°	1345.4	1352.0	1357.0	1375.9	1396.5	1422.9	1445.1	1456.6	1458.3	1467.4	1470.6
10°	1310.0	1318.2	1326.5	1346.2	1375.9	1415.4	1453.3	1481.4	1485.5	1506.9	1516.8
12.5°	1308.3	1316.6	1327.3	1348.7	1383.3	1425.3	1471.5	1511.8	1519.3	1550.6	1571.2
15°	1325.6	1335.5	1345.4	1371.8	1408.9	1459.9	1509.4	1559.6	1567.0	1611.5	1633.8
17.5°	1361.1	1374.3	1381.7	1408.0	1447.6	1504.4	1569.5	1627.2	1633.8	1685.7	1713.7
20°	1431.1	1446.8	1449.2	1470.6	1509.4	1570.3	1647.8	1719.5	1727.7	1787.0	1818.3
22.5°	1576.1	1598.4	1578.6	1589.3	1623.9	1684.9	1768.9	1859.5	1871.1	1938.6	1966.6
25°	1831.5	1862.8	1811.7	1793.6	1808.4	1871.9	1977.3	2091.9	2105.0	2159.4	2173.4
27.5°	2333.3	2292.9	2215.4	2139.7	2095.2	2131.4	2250.1	2391.8	2408.2	2461.0	2444.5
30°	2884.4	2849.0	2744.4	2576.3	2470.9	2465.1	2574.7	2732.9	2751.8	2802.1	2751.8
32.5°	3436.5	3402.7	3289.0	3082.2	2899.3	2808.7	2884.4	3059.9	3069.8	3102.0	3027.8
35°	3979.4	3944.8	3831.1	3619.4	3394.4	3188.5	3173.6	3371.4	3374.7	3408.4	3298.0
37.5°	4525.6	4496.8	4375.7	4168.1	3946.4	3662.2	3524.6	3666.3	3670.4	3703.4	3588.9
40°	4915.3	4927.7	4844.5	4683.8	4493.5	4182.9	3918.4	3980.2	3955.5	4010.7	3942.3
42.5°	5249.8	5274.6	5202.1	5121.3	5010.9	4737.4	4406.2	4395.5	4355.9	4385.6	4314.7
45°	5539.0	5559.6	5494.5	5475.6	5473.1	5281.2	4939.2	4875.0	4819.8	4814.0	4729.1
47.5°	5645.3	5684.9	5712.9	5776.3	5899.9	5819.2	5490.4	5390.7	5328.9	5283.6	5149.3
50°	5685.7	5727.7	5823.3	6007.8	6300.3	6334.9	6039.1	5927.1	5851.3	5768.9	5571.2
52.5°	5631.3	5706.3	5834.8	6145.4	6569.7	6748.5	6565.6	6467.6	6381.1	6246.8	5953.5
55°	5310.8	5385.8	5648.6	6143.8	6704.0	7038.5	7063.2	7019.6	6922.4	6710.6	6262.4
57.5°	4635.2	4746.4	5162.5	5934.5	6701.5	7288.2	7551.0	7582.3	7473.5	7170.3	6505.5
60°	3699.3	3850.1	4357.6	5470.7	6494.7	7423.3	7978.6	8135.1	8019.8	7623.5	6702.4
62.5°	2581.3	2755.9	3236.3	4744.0	6021.8	7326.1	8290.8	8580.0	8492.7	8028.8	6778.2
65°	1574.5	1630.5	2017.7	3733.1	5217.7	6919.1	8387.2	8820.6	8791.8	8276.8	6666.1
67.5°	1048.8	1095.8	1207.0	2559.8	4050.3	6105.9	8156.5	8778.6	8786.8	8236.5	6255.8
70°	631.9	672.3	744.8	1488.8	2624.9	4833.0	7442.2	8243.1	8290.8	7696.8	5478.1
72.5°	260.4	287.5	353.5	674.8	1359.4	3067.4	5926.3	7077.2	7188.5	6471.7	4204.3
75°	147.5	161.5	207.6	338.6	589.9	1429.5	3589.7	5024.1	5188.1	4460.6	2529.4
77.5°	98.0	104.6	134.3	219.2	332.0	487.7	1534.1	2617.5	2930.6	2436.3	1095.0
80°	65.9	71.7	92.3	146.7	215.9	209.3	488.6	969.7	1193.0	837.1	266.9
82.5°	44.5	45.3	65.9	96.4	136.8	101.3	144.2	301.5	379.0	242.2	101.3
85°	25.5	24.7	48.6	56.0	61.0	42.0	43.7	90.6	118.6	102.2	57.7
87.5°	3.3	4.9	18.9	14.8	8.2	9.1	9.1	15.7	23.1	24.7	12.4
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°	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5
2.5°	1431.1	1430.3	1427.8	1425.3	1419.6	1416.3	1417.9	1416.3	1415.4	1416.3	1419.6
5°	1441.8	1439.3	1432.8	1424.5	1413.0	1399.0	1389.9	1376.7	1364.4	1357.0	1358.6
7.5°	1470.6	1468.2	1459.1	1436.0	1399.0	1340.5	1286.9	1240.0	1204.5	1183.9	1184.8
10°	1516.8	1512.7	1498.7	1447.6	1350.4	1222.7	1116.4	1028.2	970.5	943.4	940.9
12.5°	1571.2	1566.2	1541.5	1436.9	1258.1	1058.7	912.0	814.0	760.5	736.6	734.1
15°	1635.4	1628.8	1580.2	1385.8	1123.8	877.4	743.2	669.8	635.2	613.8	614.6
17.5°	1715.3	1703.8	1609.1	1309.2	978.0	739.0	639.3	584.1	553.7	533.1	531.4
20°	1819.2	1800.2	1632.1	1217.7	843.7	651.7	569.3	523.2	500.1	482.0	478.7
22.5°	1964.2	1937.0	1660.1	1118.8	748.9	591.6	517.4	483.6	464.7	444.1	440.8
25°	2143.8	2111.6	1694.7	1027.4	683.8	539.7	479.5	451.5	429.2	405.4	402.9
27.5°	2395.1	2337.4	1735.9	952.4	627.8	495.2	444.9	413.6	388.1	368.3	364.2
30°	2675.2	2580.4	1772.2	907.1	576.7	454.0	399.6	368.3	344.4	330.4	327.9
32.5°	2940.5	2811.9	1796.1	887.3	530.6	407.0	350.2	316.4	298.2	294.1	296.6
35°	3190.9	3021.2	1793.6	868.4	489.4	360.0	301.5	266.9	252.9	255.4	255.4
37.5°	3479.3	3244.5	1776.3	838.7	455.6	317.2	259.5	229.0	216.7	217.5	220.8
40°	3814.6	3502.4	1765.6	782.7	418.5	277.7	224.9	200.2	191.1	187.8	187.0
42.5°	4172.2	3752.0	1767.3	719.3	372.4	242.2	201.0	180.4	172.2	169.7	168.9
45°	4531.4	3990.1	1769.7	653.3	323.8	215.0	183.7	166.4	161.5	158.2	158.2
47.5°	4869.2	4192.8	1723.6	582.5	276.0	194.4	169.7	158.2	154.1	149.9	149.9
50°	5183.9	4327.9	1612.4	500.1	238.1	178.0	159.0	150.8	146.7	142.5	142.5
52.5°	5428.6	4349.3	1428.6	415.2	211.7	165.6	152.4	145.0	140.1	135.9	135.1
55°	5537.4	4215.0	1167.5	336.1	191.1	154.9	145.8	138.4	132.6	128.5	127.7
57.5°	5509.4	3932.4	910.4	270.2	171.4	144.2	137.6	132.6	126.1	119.5	118.6
60°	5371.8	3554.3	686.3	224.9	153.2	132.6	128.5	124.4	115.3	105.5	103.8
62.5°	5133.7	3078.9	489.4	186.2	133.5	119.5	117.8	114.5	101.3	83.2	81.6
65°	4769.5	2501.3	329.6	154.9	114.5	104.6	105.5	99.7	82.4	61.8	60.1
67.5°	4237.3	1829.0	210.9	126.9	95.6	87.3	88.2	84.9	70.0	52.7	50.3
70°	3559.2	1211.1	137.6	96.4	76.6	67.6	72.5	73.3	59.3	42.8	41.2
72.5°	2609.3	715.1	96.4	71.7	56.0	47.0	59.3	61.0	47.8	32.1	30.5
75°	1487.1	339.4	72.5	51.9	34.6	33.0	46.1	46.1	33.0	21.4	19.8
77.5°	624.5	141.7	51.1	33.8	19.8	18.9	31.3	28.8	16.5	9.9	9.9
80°	180.4	63.4	27.2	16.5	8.2	7.4	12.4	9.1	4.1	1.6	1.6
82.5°	70.9	28.0	10.7	6.6	3.3	3.3	1.6	0.0	0.0	0.0	0.0
85°	42.0	11.5	4.9	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.7	2.5	1.6	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)