

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: LUMARK

Report Number: P882400

Luminaire Tested: **NAV-SB2B-730-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-730-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8554 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

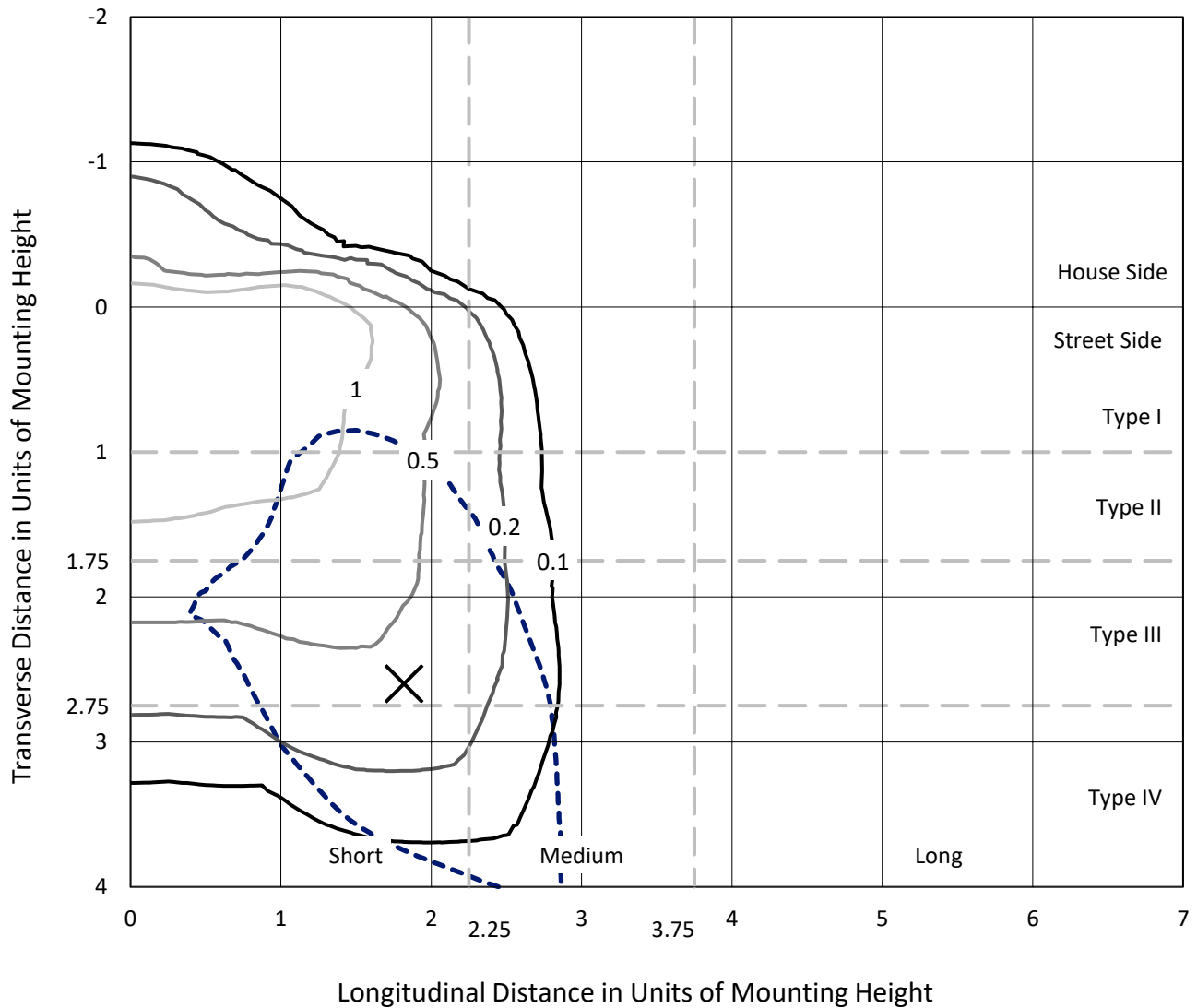
Input Watts (W): 73.9
Input Voltage (V): 120.0
Input Current (Ain): 0.627
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

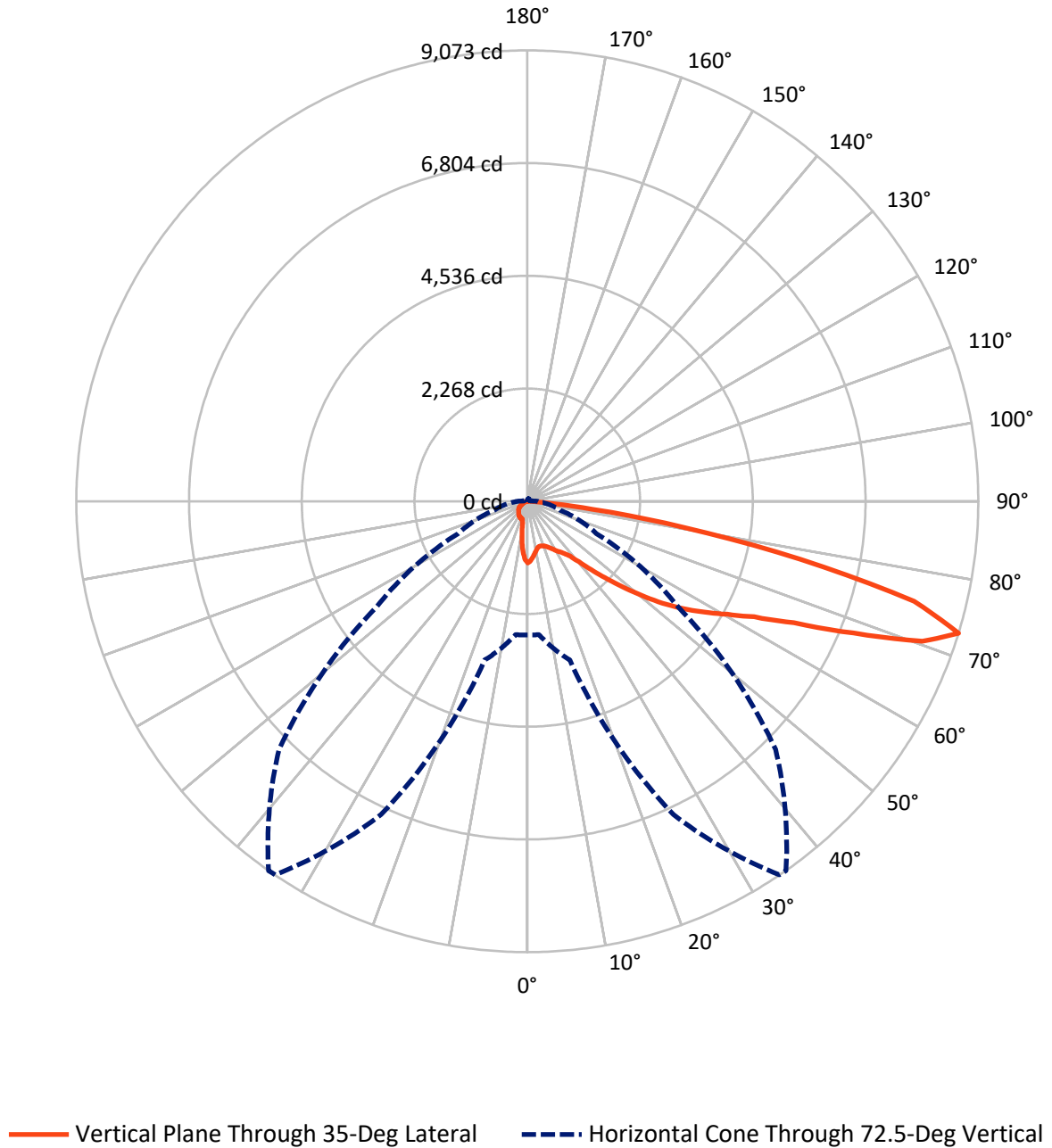
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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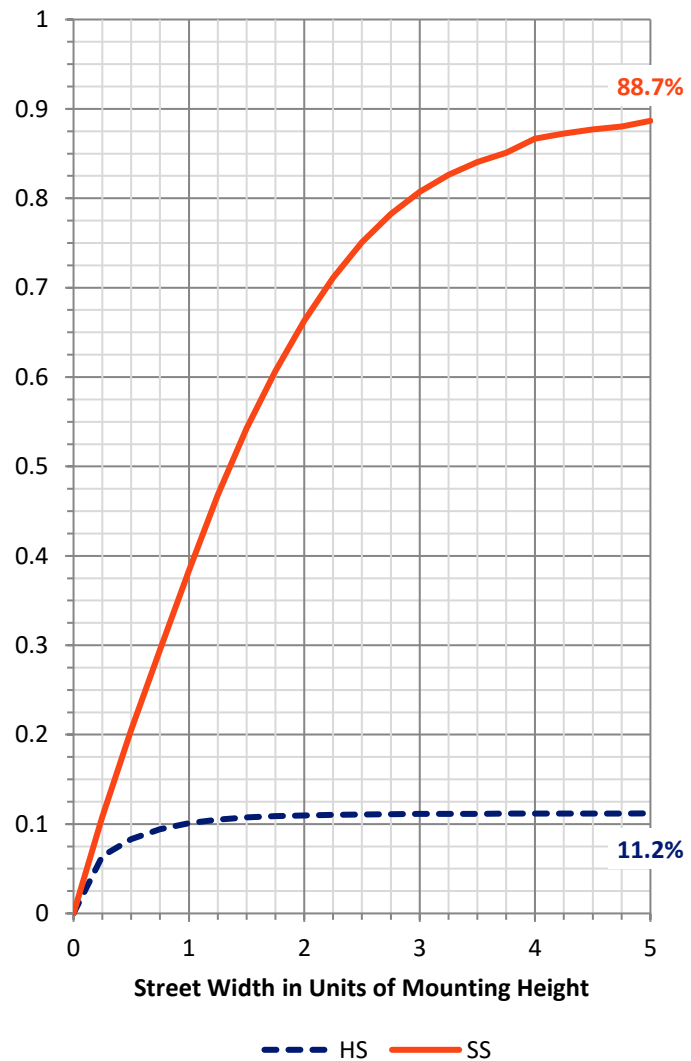
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	962.7	0.0	962.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	7591.3	0.0	7591.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	8554.0	0.0	8554.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	1.2
10°-20°	238.3	2.8
20°-30°	387.2	4.5
30°-40°	646.0	7.6
40°-50°	1222.2	14.3
50°-60°	1942.0	22.7
60°-70°	2402.4	28.1
70°-80°	1493.4	17.5
80°-90°	120.7	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°	8554.0	100.0
0°-180°	8554.0	100.0

Coefficient of Utilization



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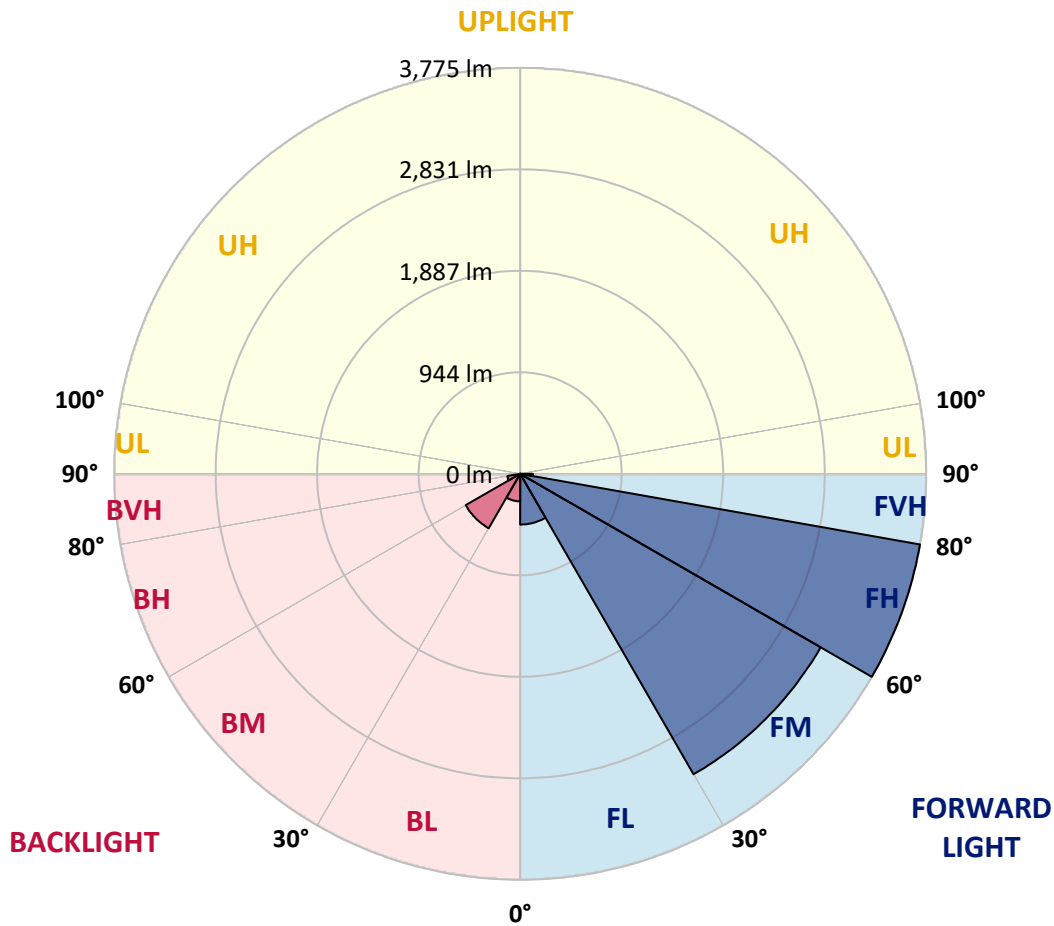
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	471.5	5.5			
FM (30°-60°)	3225.7	37.7			
FH (60°-80°)	3775.0	44.1			G2/5000
FVH (80°-90°)	119.0	1.4			G2/225
BL (0°-30°)	255.8	3.0	B1/500		
BM (30°-60°)	584.5	6.8	B1/1000		
BH (60°-80°)	120.8	1.4	B1/500		G1/500
BVH (80°-90°)	1.6	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°	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8
2.5°	1184.6	1194.6	1196.5	1199.6	1199.6	1203.4	1209.7	1218.5	1232.9	1240.4	1245.4
5°	1091.8	1099.4	1108.8	1116.3	1130.7	1132.6	1157.0	1180.8	1214.1	1239.1	1256.7
7.5°	998.5	1007.2	1019.8	1037.9	1056.7	1062.4	1099.4	1139.5	1192.1	1239.1	1268.6
10°	932.6	933.3	944.6	962.7	992.8	999.7	1044.8	1101.9	1167.7	1231.6	1279.9
12.5°	895.7	900.0	905.1	918.9	947.7	952.1	1000.3	1067.4	1143.2	1227.2	1293.0
15°	895.7	898.8	901.9	908.8	932.0	935.8	978.4	1045.5	1130.7	1229.1	1314.3
17.5°	905.1	910.1	907.6	915.7	940.2	942.7	980.3	1039.2	1130.1	1241.0	1346.9
20°	927.6	931.4	926.4	931.4	955.8	960.8	999.7	1051.1	1140.7	1261.7	1387.7
22.5°	963.4	965.2	953.3	957.1	982.2	988.4	1033.6	1084.9	1166.4	1294.9	1442.2
25°	1008.5	1012.2	994.1	998.5	1022.3	1029.8	1081.8	1135.7	1207.2	1340.7	1511.8
27.5°	1060.5	1062.4	1046.7	1046.1	1076.8	1087.5	1140.1	1198.4	1261.7	1398.3	1599.5
30°	1120.0	1125.7	1110.6	1108.1	1147.0	1155.8	1207.8	1275.5	1341.9	1484.8	1724.3
32.5°	1167.1	1171.4	1162.7	1168.9	1208.4	1215.3	1289.9	1384.5	1467.9	1607.7	1894.1
35°	1234.7	1237.3	1217.2	1228.5	1273.6	1291.2	1402.1	1537.5	1626.5	1761.9	2116.0
37.5°	1479.8	1479.8	1394.6	1338.8	1382.0	1397.7	1555.7	1729.9	1822.0	1968.7	2395.5
40°	1818.9	1813.3	1688.5	1574.5	1568.8	1599.5	1774.4	1972.5	2074.6	2216.9	2710.2
42.5°	2180.6	2171.8	2001.9	1889.1	1870.3	1881.0	2027.0	2271.4	2375.5	2519.6	3048.6
45°	2501.5	2499.0	2343.5	2191.8	2158.0	2191.8	2342.3	2621.2	2695.8	2847.4	3386.5
47.5°	2770.3	2770.3	2656.9	2557.9	2540.3	2560.4	2769.1	3009.1	3002.3	3196.6	3715.5
50°	3080.0	3077.5	2969.7	2927.0	2945.2	2973.4	3260.5	3417.8	3319.4	3539.4	4009.5
52.5°	3296.8	3311.9	3274.9	3268.0	3360.8	3409.7	3759.4	3817.7	3603.3	3864.7	4229.5
55°	3468.6	3486.1	3528.7	3577.0	3755.6	3819.6	4242.6	4196.9	3840.9	4146.7	4356.1
57.5°	3711.8	3686.7	3752.5	3847.8	4136.7	4213.8	4710.8	4554.8	4032.0	4375.5	4369.9
60°	4007.0	4010.7	4022.0	4142.4	4517.2	4616.2	5172.1	4893.2	4154.9	4515.9	4216.9
62.5°	4361.7	4367.4	4390.6	4575.5	5028.0	5121.4	5663.5	5170.3	4211.3	4476.4	3822.1
65°	4337.3	4361.1	4620.0	5252.4	5804.6	5896.7	6237.0	5364.6	4126.1	4115.4	3111.9
67.5°	3951.2	3990.1	4423.2	6060.9	6975.4	7078.2	6930.3	5402.8	3758.1	3200.3	2030.1
70°	3444.8	3458.5	3979.4	6788.0	8331.1	8435.1	7550.8	4982.2	2851.8	1785.1	909.5
72.5°	2690.1	2693.3	3304.4	6956.6	9066.9	9072.6	7063.8	3698.6	1533.7	685.7	315.9
75°	1921.7	1902.9	2213.1	5641.6	7977.0	8040.9	5295.6	1734.9	586.0	324.0	157.3
77.5°	1030.4	1051.1	1252.3	3345.7	5510.6	5619.7	2889.4	500.2	298.3	220.6	104.0
80°	318.4	336.0	513.3	1531.8	3121.3	3187.2	1071.2	222.5	208.1	157.3	68.3
82.5°	100.3	104.0	239.4	643.7	1295.5	1325.6	310.3	126.0	142.3	104.0	40.1
85°	28.8	29.5	106.6	240.1	320.3	326.5	87.1	48.9	81.5	64.6	20.7
87.5°	3.1	10.0	40.1	40.1	28.2	27.6	9.4	10.7	23.2	8.1	3.8
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°	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8	1239.8
2.5°	1242.3	1242.9	1234.7	1221.0	1205.9	1193.4	1177.7	1165.2	1156.4	1153.9	1158.3
5°	1251.0	1246.7	1223.5	1181.5	1131.3	1088.1	1039.8	1001.6	976.5	965.9	969.6
7.5°	1264.2	1251.7	1200.9	1118.2	1022.3	937.0	850.5	783.5	740.8	719.5	722.7
10°	1275.5	1250.4	1163.3	1026.7	880.0	750.9	634.3	553.4	508.3	487.0	487.6
12.5°	1286.1	1249.8	1114.4	918.2	719.5	561.6	453.2	413.0	400.5	396.1	394.9
15°	1306.2	1251.7	1053.0	794.1	559.7	424.3	384.8	384.2	386.7	385.5	384.8
17.5°	1333.8	1253.6	983.4	662.5	431.8	374.2	372.3	377.9	381.7	379.8	379.2
20°	1369.5	1261.1	909.5	532.1	371.1	361.6	366.0	371.1	374.2	371.1	370.4
22.5°	1419.6	1274.2	828.6	427.5	351.6	354.1	357.9	363.5	366.7	362.3	361.6
25°	1481.1	1294.9	749.0	371.7	342.2	345.4	351.0	357.3	361.0	356.6	356.0
27.5°	1560.7	1328.1	675.7	359.1	332.8	334.7	342.8	352.2	357.3	351.6	351.6
30°	1676.0	1382.7	612.4	364.8	327.2	322.8	334.1	347.2	352.9	347.9	347.2
32.5°	1828.9	1459.8	573.5	373.6	324.7	309.0	319.7	336.6	346.0	342.8	342.8
35°	2029.5	1577.0	558.5	383.6	322.8	294.6	302.1	320.3	336.6	339.7	339.7
37.5°	2272.7	1739.9	562.8	388.0	317.1	282.7	286.4	302.1	323.4	333.4	336.0
40°	2549.1	1929.8	587.9	383.6	310.9	272.6	273.3	285.2	304.0	319.0	324.0
42.5°	2834.3	2151.7	634.3	367.3	305.2	263.9	262.0	270.1	282.7	293.3	297.7
45°	3105.7	2379.9	680.1	344.7	298.3	255.1	250.7	253.8	256.4	260.7	263.2
47.5°	3342.6	2540.3	666.9	324.0	288.9	245.1	237.5	236.3	228.8	228.1	227.5
50°	3506.2	2575.4	592.3	303.4	275.2	233.8	221.9	214.4	201.2	194.9	195.6
52.5°	3558.2	2436.9	483.9	282.7	252.6	218.7	201.8	189.9	173.6	168.0	167.3
55°	3489.3	2165.5	386.7	257.6	221.3	198.7	179.9	164.2	151.1	144.2	144.2
57.5°	3320.7	1820.2	305.9	228.1	188.0	176.1	157.3	141.7	130.4	123.5	122.2
60°	3041.1	1445.3	241.9	193.0	160.5	151.7	132.2	122.2	112.2	104.0	102.2
62.5°	2616.8	1031.7	189.9	152.9	134.1	124.1	112.8	105.3	93.4	82.1	80.2
65°	2042.0	631.2	146.7	112.2	107.8	102.8	95.9	89.0	74.6	63.3	61.4
67.5°	1288.0	299.0	104.7	84.6	85.2	82.7	79.6	74.0	63.3	53.3	52.0
70°	567.2	144.8	68.9	64.6	63.3	63.3	65.8	63.9	53.9	44.5	42.6
72.5°	193.0	77.7	51.4	48.9	45.8	45.1	55.2	53.3	43.2	34.5	32.6
75°	100.9	52.0	37.6	35.1	27.6	33.2	43.9	41.4	30.7	22.6	20.7
77.5°	65.8	37.0	25.7	22.6	15.7	21.9	32.6	28.8	18.2	11.3	10.0
80°	41.4	24.4	15.0	10.7	7.5	11.9	17.5	12.5	6.9	2.5	1.9
82.5°	21.9	12.5	5.6	3.8	3.1	3.8	4.4	3.1	1.3	0.0	0.0
85°	8.8	4.4	1.9	1.3	0.6	0.0	1.3	0.6	0.0	0.0	0.0
87.5°	3.1	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)