

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: P959359

Luminaire Tested: **NAV-SB1A-750-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959359
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: LUMARK
Catalog Number: NAV-SB1A-750-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

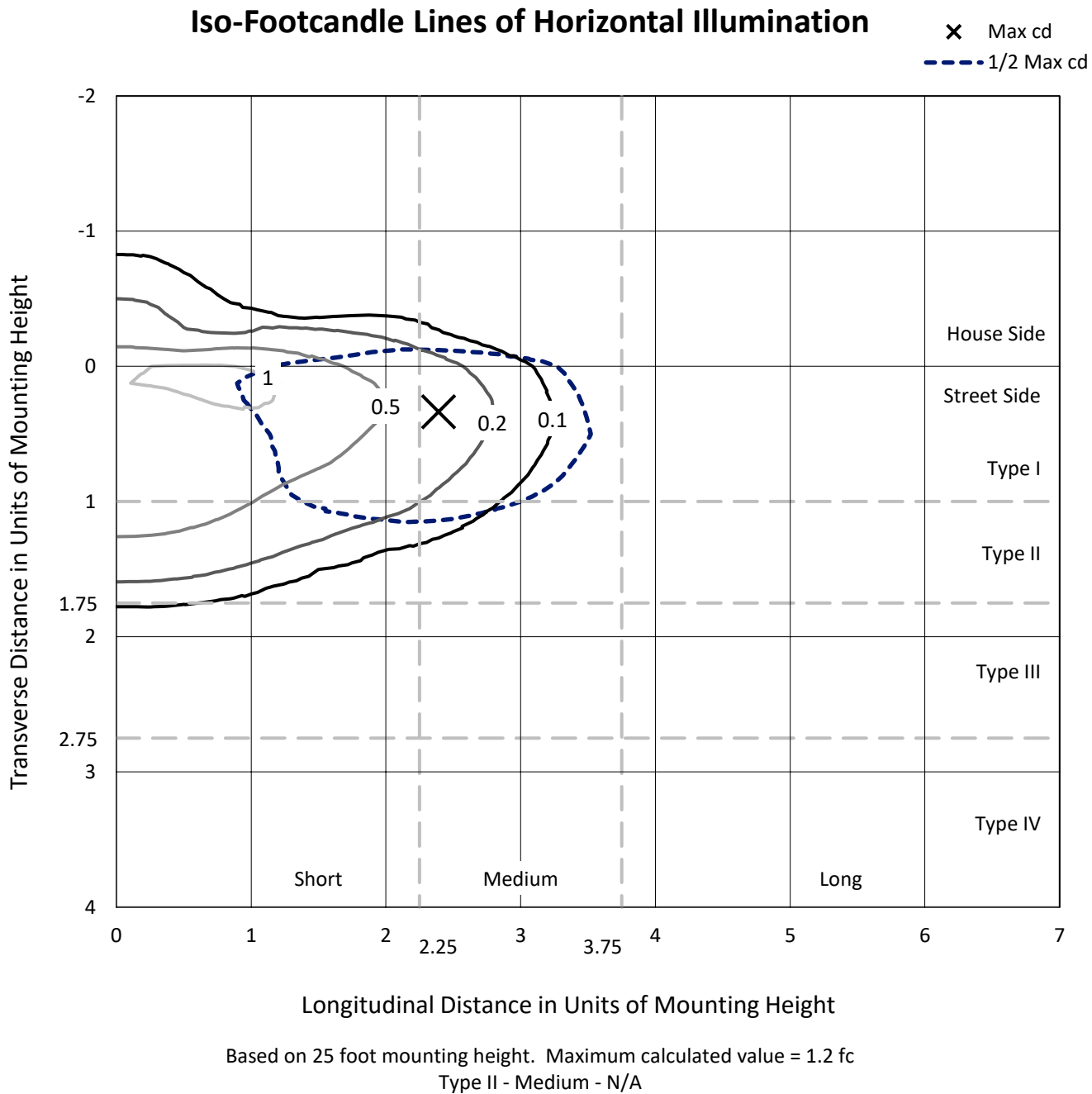
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3553.7 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 30.9
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

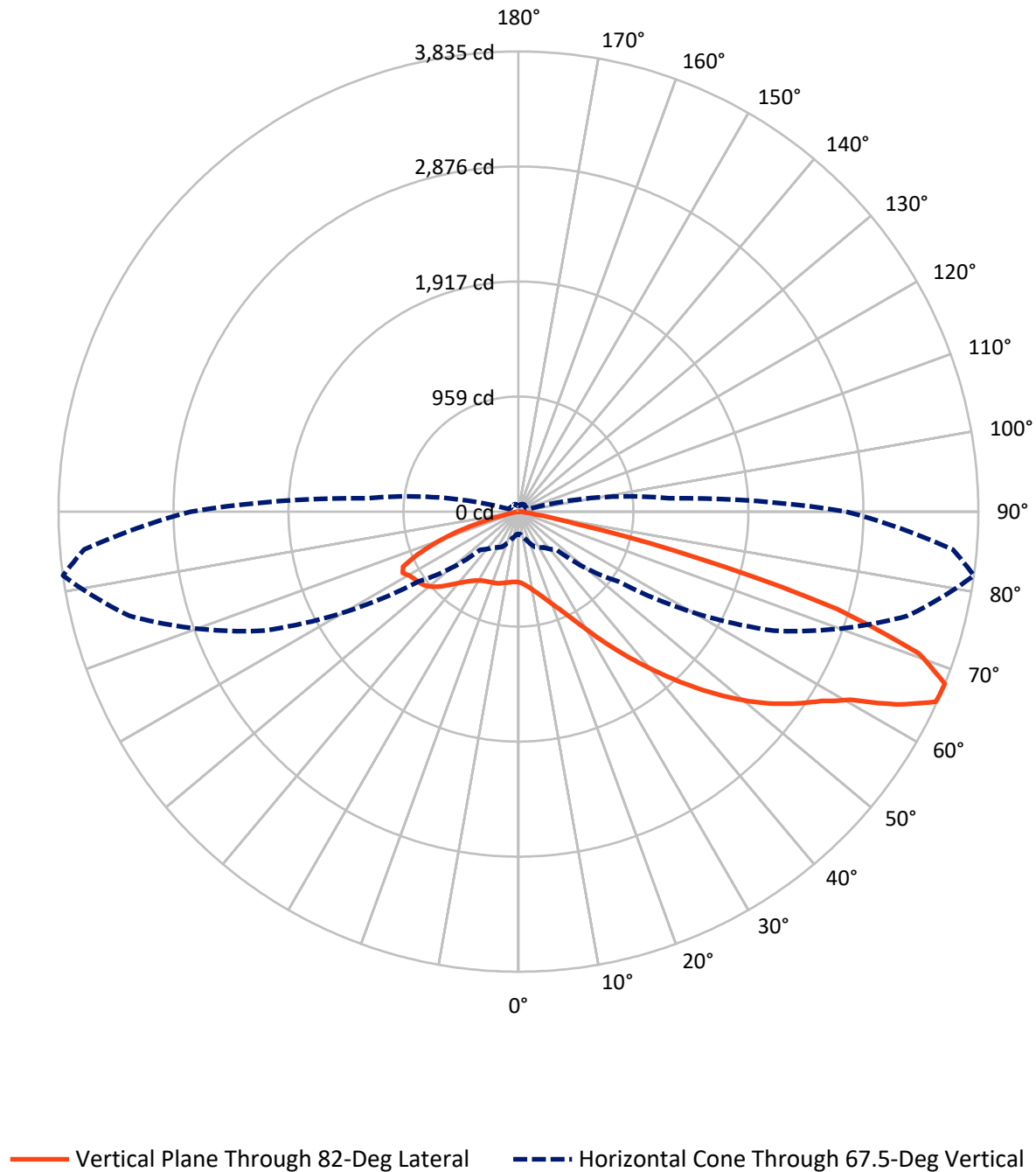


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	643.7	0.0	643.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2910.0	0.0	2910.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	3553.7	0.0	3553.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.4	1.5
10°-20°	136.3	3.8
20°-30°	218.3	6.1
30°-40°	386.0	10.9
40°-50°	676.4	19.0
50°-60°	902.1	25.4
60°-70°	839.8	23.6
70°-80°	322.3	9.1
80°-90°	20.0	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°	3553.7	100.0
0°-180°	3553.7	100.0

Coefficient of Utilization



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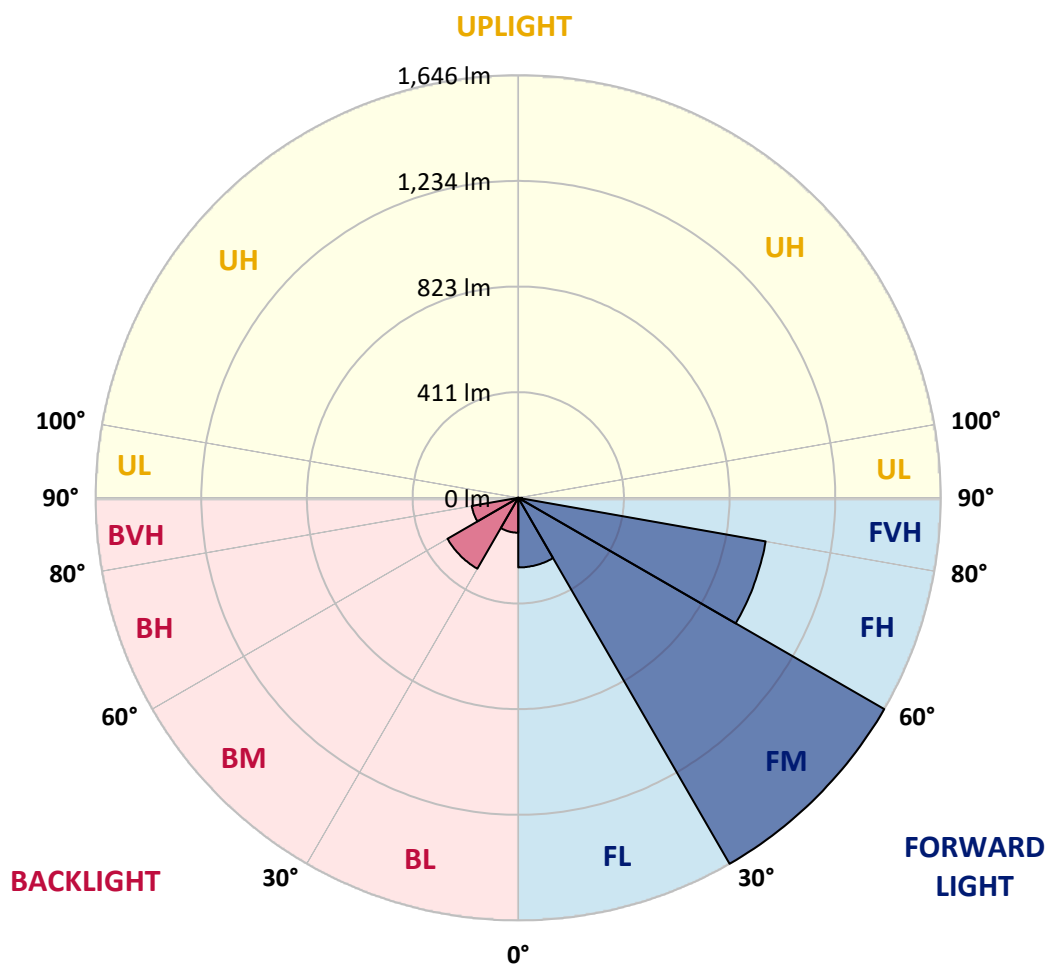
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	271.1	7.6			
FM	(30°-60°)	1645.9	46.3			
FH	(60°-80°)	978.4	27.5			G1/1800
FVH	(80°-90°)	14.5	0.4			G1/100
BL	(0°-30°)	135.9	3.8	B1/500		
BM	(30°-60°)	318.6	9.0	B1/1000		
BH	(60°-80°)	183.7	5.2	B1/500		G1/500
BVH	(80°-90°)	5.5	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°	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8
2.5°	622.3	625.9	623.8	622.8	620.9	618.4	616.3	610.0	603.3	598.9	597.5
5°	634.8	638.4	638.1	639.1	640.4	641.1	640.6	633.4	624.0	616.6	612.2
7.5°	624.0	628.1	631.5	636.5	645.5	655.0	659.6	658.0	648.3	638.1	632.7
10°	593.6	598.0	605.9	617.9	636.8	657.3	674.4	682.3	676.2	664.9	657.5
12.5°	537.8	542.1	557.8	583.8	615.6	651.2	683.9	705.1	706.6	695.5	686.7
15°	475.1	479.5	496.1	528.9	577.2	634.3	689.0	729.2	742.7	733.0	722.5
17.5°	436.2	440.0	452.6	479.0	529.4	600.4	687.3	754.8	785.8	778.1	765.5
20°	424.5	427.8	433.7	452.1	494.0	565.4	675.5	778.8	832.0	827.7	813.6
22.5°	437.0	440.0	441.9	450.1	476.4	542.4	660.6	803.4	885.8	886.3	869.1
25°	465.9	468.9	466.9	472.0	483.6	535.3	655.0	832.3	953.4	959.0	939.5
27.5°	513.5	513.7	508.9	508.6	510.4	546.0	660.9	863.3	1038.5	1049.0	1025.0
30°	609.0	605.1	586.4	566.2	557.0	578.2	677.2	899.8	1139.1	1157.7	1127.6
32.5°	756.0	750.4	716.2	667.8	619.2	630.2	706.6	941.6	1248.6	1282.4	1245.5
35°	915.7	914.2	878.3	806.5	721.5	704.1	754.5	996.3	1368.1	1421.8	1378.0
37.5°	1064.1	1063.3	1042.8	958.2	854.8	807.2	831.3	1067.9	1496.0	1573.8	1522.1
40°	1199.7	1202.0	1181.5	1105.8	1001.6	939.5	935.6	1156.5	1638.3	1739.3	1677.9
42.5°	1316.9	1319.5	1298.7	1242.7	1146.8	1085.9	1063.8	1265.0	1777.1	1917.2	1844.5
45°	1396.5	1412.3	1409.3	1364.5	1295.7	1232.5	1217.9	1401.1	1935.5	2105.7	2020.5
47.5°	1419.0	1433.6	1456.6	1462.8	1420.8	1358.6	1376.0	1565.1	2095.7	2294.5	2197.5
50°	1363.5	1377.0	1424.9	1488.6	1517.7	1498.6	1529.7	1740.9	2259.7	2482.9	2371.2
52.5°	1254.0	1267.7	1328.2	1429.0	1548.0	1608.3	1684.1	1914.1	2418.6	2661.1	2535.7
55°	1095.6	1110.2	1187.7	1301.8	1490.4	1653.6	1812.7	2087.0	2564.1	2821.6	2684.2
57.5°	880.2	890.9	971.5	1131.1	1345.5	1608.5	1907.6	2275.8	2701.3	2979.2	2831.3
60°	573.6	583.1	676.7	854.8	1105.6	1458.2	1926.6	2486.4	2883.5	3184.2	3029.6
62.5°	381.5	387.9	443.4	574.1	778.6	1169.2	1815.8	2654.5	3150.6	3540.8	3369.6
65°	261.8	268.1	323.7	414.7	503.0	773.5	1497.2	2632.2	3392.6	3824.0	3621.6
67.5°	186.8	192.2	239.2	325.2	364.1	449.3	1015.0	2347.8	3357.8	3834.7	3635.2
70°	133.8	136.8	175.8	253.3	289.4	269.9	564.5	1795.6	2940.0	3541.1	3358.3
72.5°	93.7	94.7	122.1	192.9	233.1	197.0	268.7	1197.1	2223.6	2779.4	2603.6
75°	63.4	64.8	82.1	141.4	187.1	150.5	142.3	642.0	1305.3	1538.4	1379.0
77.5°	38.8	39.4	53.0	96.8	139.9	114.6	91.6	271.9	505.0	495.9	422.7
80°	22.0	22.0	33.7	60.2	95.4	73.9	64.3	115.6	159.9	140.4	123.8
82.5°	12.3	12.5	24.6	37.3	63.2	43.8	35.3	53.5	69.1	61.2	53.2
85°	5.1	5.6	15.1	17.6	30.2	21.7	14.3	22.5	25.6	22.8	16.6
87.5°	0.5	0.7	4.6	3.3	3.6	4.3	2.0	4.3	3.6	3.6	2.6
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°	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8
2.5°	592.6	588.8	579.0	567.7	552.9	545.7	536.0	529.4	523.8	524.3	519.2
5°	604.0	594.4	572.6	545.5	511.7	487.7	462.1	444.4	430.1	427.0	420.1
7.5°	619.9	604.5	566.4	517.6	460.5	417.3	378.6	353.8	336.2	330.6	324.9
10°	640.4	618.2	558.5	482.6	400.4	345.4	303.9	284.5	272.4	268.3	265.4
12.5°	664.2	633.8	548.1	439.8	338.5	285.6	259.2	249.5	245.6	244.4	243.5
15°	694.1	653.2	532.2	389.2	286.1	249.0	237.7	236.4	236.9	236.4	236.2
17.5°	729.7	674.4	506.4	336.9	250.7	230.3	226.2	227.2	228.5	228.3	227.8
20°	768.5	695.5	473.3	290.7	226.7	217.0	214.6	215.7	216.7	216.2	216.0
22.5°	812.8	717.9	436.8	254.6	210.5	204.7	202.1	202.3	202.3	201.3	200.8
25°	865.8	742.7	398.4	229.0	198.3	193.7	190.6	189.6	188.1	185.0	184.5
27.5°	929.1	769.1	361.5	211.0	188.6	184.2	180.6	178.0	174.2	169.1	168.6
30°	1000.1	801.0	330.4	199.8	180.9	176.5	172.4	168.6	163.0	156.6	156.1
32.5°	1083.8	835.4	307.5	192.4	173.9	169.3	164.5	159.9	153.8	147.4	147.6
35°	1183.6	876.8	294.3	187.3	168.6	162.5	157.1	152.0	147.4	141.8	141.2
37.5°	1291.8	920.9	290.2	184.7	165.0	155.6	149.4	145.9	145.3	142.0	141.8
40°	1410.3	973.0	293.3	183.2	161.2	148.9	142.3	141.4	142.8	136.8	137.1
42.5°	1535.7	1034.9	298.4	181.4	155.8	142.3	135.8	135.8	134.8	126.7	126.7
45°	1671.3	1106.3	303.4	177.0	149.4	135.6	130.8	128.9	124.6	116.6	116.4
47.5°	1807.9	1179.0	307.3	169.1	141.8	130.0	125.7	121.6	115.1	107.9	107.7
50°	1937.6	1244.2	303.2	157.3	133.0	124.6	120.0	114.4	107.4	102.6	101.8
52.5°	2053.5	1300.7	285.8	143.5	123.8	119.0	114.9	109.0	103.3	98.3	97.8
55°	2154.3	1346.5	255.1	130.5	115.6	114.1	110.0	102.6	94.9	90.6	90.1
57.5°	2251.0	1381.4	216.7	119.7	108.2	108.8	102.6	95.9	88.8	84.2	83.6
60°	2379.7	1427.9	177.8	109.8	100.2	101.8	95.2	90.3	81.4	75.4	74.7
62.5°	2585.5	1500.3	141.2	97.5	91.1	91.6	88.8	82.9	72.2	65.3	64.8
65°	2748.6	1473.7	111.3	84.2	80.6	81.4	81.4	74.9	63.4	55.6	54.7
67.5°	2730.2	1261.9	88.8	71.1	70.6	71.1	72.9	67.5	56.3	49.9	48.9
70°	2515.0	1003.7	71.1	59.1	61.4	60.2	65.3	61.7	50.6	44.3	43.5
72.5°	2052.3	723.0	54.2	48.9	47.0	49.1	58.8	55.6	42.2	35.1	34.2
75°	1199.1	385.8	40.4	38.6	34.0	40.9	52.2	47.4	32.3	25.8	25.1
77.5°	390.4	134.6	29.7	28.4	25.3	33.0	44.5	39.9	26.3	20.5	19.7
80°	104.7	40.7	20.2	18.7	16.4	24.6	35.3	31.8	19.0	13.3	13.0
82.5°	41.9	17.1	11.8	10.5	8.9	16.9	27.9	25.6	14.0	8.4	8.4
85°	13.5	5.6	4.3	3.3	4.1	10.5	16.6	17.4	9.9	4.3	3.3
87.5°	1.7	0.7	0.7	1.0	0.7	1.7	5.1	4.8	2.8	0.5	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)