

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: P959855

Luminaire Tested: **NAV-SB1B-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959855
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-SB1B-740-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

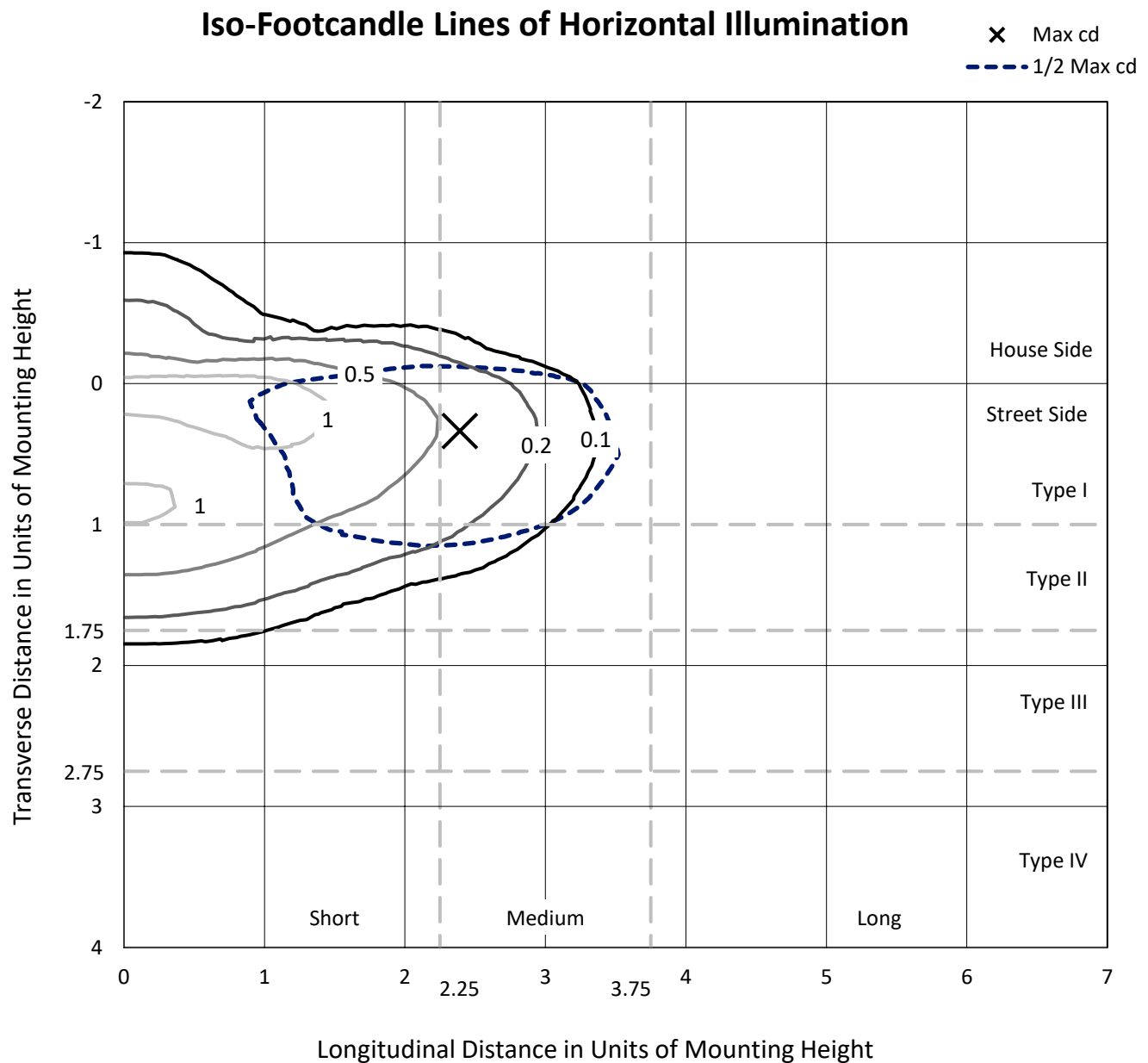
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4460.8 lumens
Efficiency: N/A
Efficacy: 112.1 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): 39.8
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



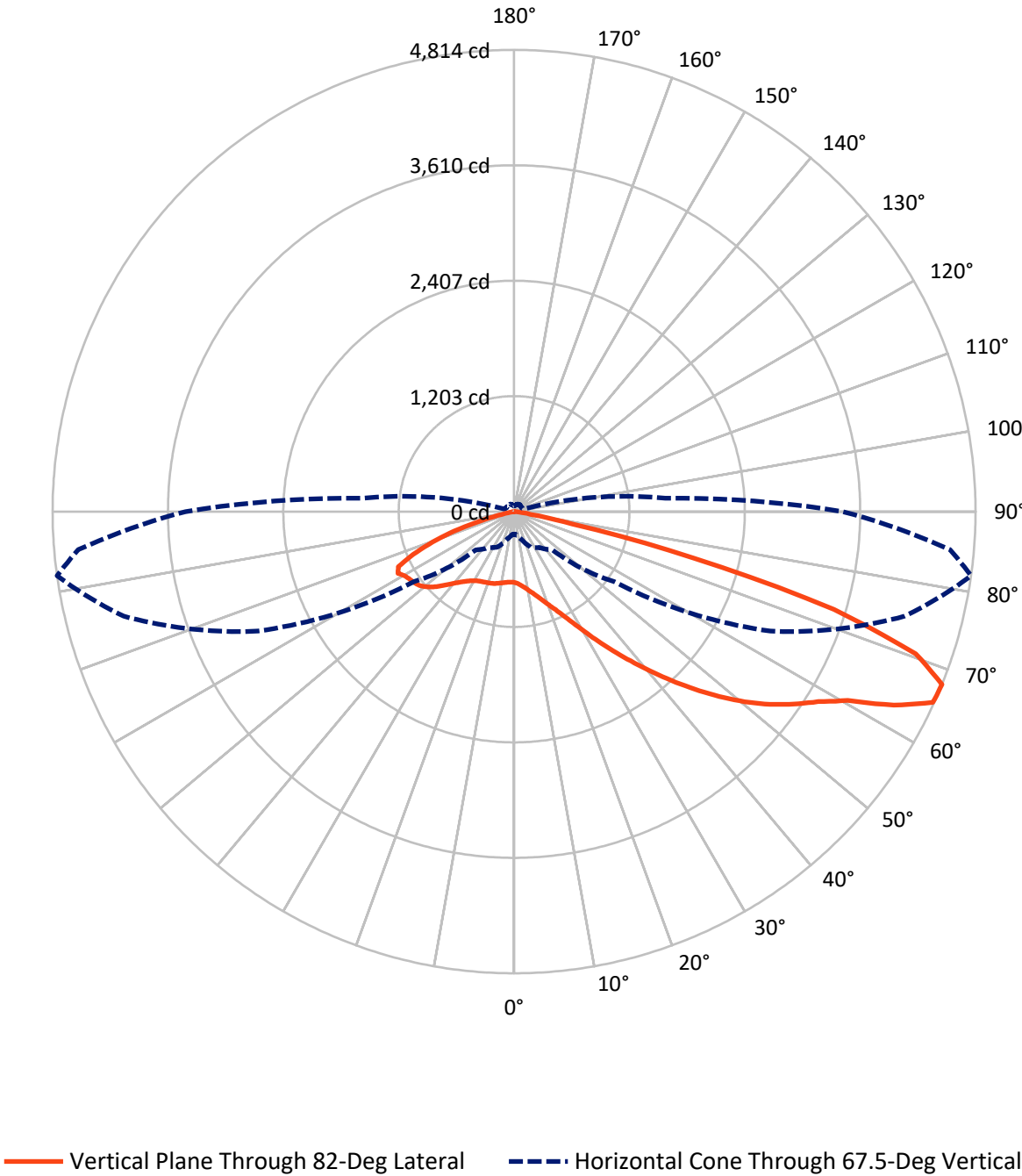
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Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	808.0	0.0	808.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3652.8	0.0	3652.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	4460.8	0.0	4460.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	1.5
10°-20°	171.1	3.8
20°-30°	274.0	6.1
30°-40°	484.6	10.9
40°-50°	849.0	19.0
50°-60°	1132.4	25.4
60°-70°	1054.2	23.6
70°-80°	404.6	9.1
80°-90°	25.1	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°	4460.8	100.0
0°-180°	4460.8	100.0

Coefficient of Utilization



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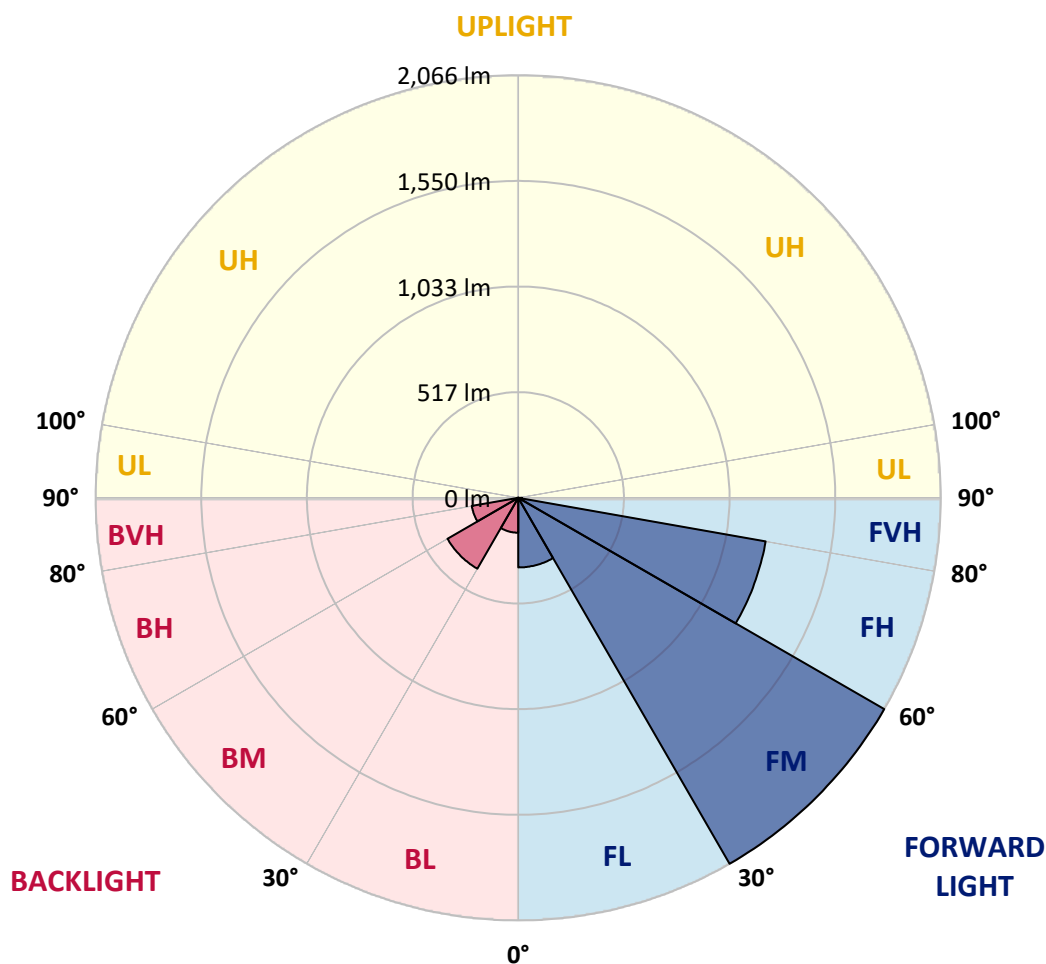
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	340.3	7.6			
FM	(30°-60°)	2066.1	46.3			
FH	(60°-80°)	1228.1	27.5			G1/1800
FVH	(80°-90°)	18.3	0.4			G1/100
BL	(0°-30°)	170.7	3.8	B1/500		
BM	(30°-60°)	399.9	9.0	B1/1000		
BH	(60°-80°)	230.6	5.2	B1/500		G1/500
BVH	(80°-90°)	6.9	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°	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0
2.5°	781.0	785.6	783.0	781.8	779.5	776.2	773.7	765.7	757.3	751.8	749.9
5°	796.8	801.3	801.0	802.3	803.9	804.8	804.2	795.2	783.3	774.0	768.5
7.5°	783.3	788.4	792.6	799.1	810.3	822.2	828.0	826.0	813.8	801.0	794.3
10°	745.1	750.6	760.6	775.6	799.4	825.1	846.5	856.6	848.8	834.8	825.4
12.5°	675.1	680.6	700.2	732.9	772.7	817.3	858.4	885.1	887.0	872.9	862.0
15°	596.4	601.9	622.8	663.9	724.6	796.2	864.9	915.3	932.3	920.1	907.0
17.5°	547.6	552.4	568.2	601.3	664.5	753.8	862.6	947.4	986.3	976.6	960.9
20°	532.8	537.0	544.4	567.5	620.1	709.8	847.9	977.6	1044.5	1038.9	1021.3
22.5°	548.6	552.4	554.6	565.0	598.0	680.9	829.2	1008.5	1111.9	1112.5	1091.0
25°	584.9	588.7	586.1	592.6	607.0	671.9	822.2	1044.8	1196.7	1203.8	1179.4
27.5°	644.6	644.9	638.8	638.5	640.7	685.4	829.5	1083.6	1303.6	1316.8	1286.6
30°	764.3	759.5	736.2	710.7	699.2	725.8	850.1	1129.6	1429.9	1453.2	1415.4
32.5°	949.0	942.0	898.9	838.2	777.3	791.0	887.0	1181.9	1567.3	1609.7	1563.4
35°	1149.4	1147.5	1102.6	1012.3	905.7	883.9	947.1	1250.6	1717.3	1784.7	1729.8
37.5°	1335.8	1334.8	1309.0	1202.7	1073.0	1013.3	1043.4	1340.6	1877.9	1975.5	1910.6
40°	1505.9	1508.8	1483.2	1388.1	1257.4	1179.4	1174.5	1451.7	2056.5	2183.2	2106.2
42.5°	1653.0	1656.3	1630.3	1559.9	1439.5	1363.0	1335.4	1587.8	2230.8	2406.5	2315.3
45°	1753.0	1772.8	1768.9	1712.8	1626.4	1547.0	1528.8	1758.7	2429.7	2643.2	2536.3
47.5°	1781.1	1799.5	1828.4	1836.1	1783.4	1705.4	1727.2	1964.6	2630.7	2880.2	2758.5
50°	1711.5	1728.6	1788.6	1868.6	1905.2	1881.1	1920.2	2185.2	2836.6	3116.6	2976.6
52.5°	1574.0	1591.4	1667.2	1793.7	1943.1	2018.8	2114.0	2402.6	3035.9	3340.5	3183.0
55°	1375.2	1393.6	1490.9	1634.1	1870.8	2075.7	2275.5	2619.8	3218.7	3541.8	3369.4
57.5°	1104.8	1118.3	1219.4	1419.8	1689.0	2019.1	2394.6	2856.8	3390.9	3739.6	3554.0
60°	720.1	732.0	849.5	1073.0	1387.7	1830.3	2418.4	3121.1	3619.6	3996.9	3803.0
62.5°	478.9	486.9	556.6	720.7	977.3	1467.7	2279.3	3332.1	3954.9	4444.6	4229.8
65°	328.5	336.6	406.3	520.6	631.4	970.9	1879.4	3304.2	4258.7	4800.2	4546.1
67.5°	234.4	241.2	300.3	408.2	457.0	564.0	1274.1	2947.0	4215.0	4813.6	4563.1
70°	168.0	171.8	220.7	318.0	363.3	338.9	708.5	2254.0	3690.5	4444.9	4215.6
72.5°	117.6	118.8	153.2	242.2	292.5	247.3	337.2	1502.8	2791.3	3488.8	3268.2
75°	79.6	81.3	103.1	177.6	234.7	188.8	178.6	805.9	1638.6	1931.2	1731.1
77.5°	48.8	49.5	66.5	121.4	175.7	143.9	115.0	341.4	634.0	622.4	530.5
80°	27.6	27.6	42.4	75.4	119.8	92.9	80.6	145.1	200.7	176.3	155.5
82.5°	15.4	15.8	30.9	46.8	79.3	54.9	44.3	67.1	86.7	76.8	66.8
85°	6.5	7.1	19.0	22.1	37.9	27.3	17.9	28.3	32.1	28.6	20.9
87.5°	0.6	0.9	5.7	4.2	4.5	5.4	2.6	5.4	4.5	4.5	3.2
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°	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0
2.5°	743.8	739.0	726.8	712.7	694.0	685.0	672.8	664.5	657.4	658.0	651.7
5°	758.3	746.1	718.7	684.7	642.4	612.1	580.0	557.9	539.9	536.1	527.4
7.5°	778.2	758.9	711.0	649.7	578.1	523.8	475.3	444.1	422.0	414.9	407.8
10°	803.9	775.9	701.1	605.7	502.7	433.6	381.5	357.1	342.0	336.9	333.0
12.5°	833.7	795.5	688.0	552.1	424.9	358.4	325.3	313.1	308.3	306.7	305.8
15°	871.4	819.9	668.0	488.5	359.1	312.5	298.4	296.7	297.4	296.7	296.4
17.5°	915.9	846.5	635.6	423.0	314.8	289.0	283.9	285.2	286.8	286.5	285.9
20°	964.8	872.9	594.2	364.8	284.5	272.3	269.5	270.7	272.0	271.4	271.1
22.5°	1020.4	901.2	548.3	319.6	264.3	257.0	253.7	254.0	254.0	252.8	252.2
25°	1086.8	932.3	500.1	287.4	248.9	243.1	239.2	238.0	236.1	232.2	231.5
27.5°	1166.1	965.4	453.8	265.0	236.7	231.2	226.7	223.6	218.7	212.3	211.7
30°	1255.4	1005.5	414.6	250.8	227.0	221.6	216.5	211.7	204.6	196.6	195.9
32.5°	1360.5	1048.6	386.0	241.5	218.4	212.6	206.5	200.7	193.0	185.0	185.3
35°	1485.7	1100.6	369.3	235.1	211.7	204.0	197.2	190.8	185.0	177.9	177.3
37.5°	1621.6	1155.9	364.2	231.9	207.2	195.3	187.6	183.1	182.4	178.2	177.9
40°	1770.3	1221.4	368.1	229.9	202.3	187.0	178.6	177.6	179.2	171.8	172.1
42.5°	1927.6	1299.1	374.4	227.8	195.6	178.6	170.6	170.6	169.2	159.0	159.0
45°	2097.9	1388.8	380.9	222.2	187.6	170.3	164.1	161.8	156.4	146.5	146.2
47.5°	2269.4	1479.9	385.7	212.3	177.9	163.2	157.6	152.5	144.5	135.5	135.2
50°	2432.2	1561.8	380.6	197.5	167.0	156.4	150.7	143.6	134.9	128.7	127.8
52.5°	2577.7	1632.8	358.7	180.2	155.5	149.3	144.2	136.8	129.8	123.3	122.7
55°	2704.3	1690.3	320.2	163.8	145.1	143.2	138.1	128.7	119.1	113.7	113.1
57.5°	2825.6	1734.0	272.0	150.3	135.8	136.5	128.7	120.4	111.4	105.7	105.1
60°	2987.2	1792.4	223.2	137.8	125.9	127.8	119.5	113.4	102.1	94.7	93.8
62.5°	3245.4	1883.3	177.3	122.4	114.3	115.0	111.4	104.0	90.6	81.9	81.3
65°	3450.3	1849.9	139.7	105.7	101.2	102.1	102.1	94.1	79.6	69.7	68.8
67.5°	3427.2	1584.0	111.4	89.3	88.7	89.3	91.5	84.8	70.6	62.6	61.3
70°	3157.1	1259.9	89.3	74.2	77.1	75.4	81.9	77.4	63.6	55.6	54.6
72.5°	2576.0	907.6	68.1	61.3	59.1	61.7	73.9	69.7	53.0	44.0	43.0
75°	1505.3	484.3	50.7	48.5	42.7	51.4	65.5	59.4	40.5	32.4	31.5
77.5°	490.1	168.9	37.2	35.7	31.8	41.4	55.9	50.1	33.1	25.7	24.7
80°	131.4	51.0	25.4	23.5	20.6	30.9	44.3	39.9	23.8	16.7	16.4
82.5°	52.7	21.5	14.8	13.1	11.3	21.2	35.1	32.1	17.6	10.6	10.6
85°	17.0	7.1	5.4	4.2	5.1	13.1	20.9	21.8	12.5	5.4	4.2
87.5°	2.3	0.9	0.9	1.3	0.9	2.3	6.5	6.1	3.5	0.6	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)