

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: P960506

Luminaire Tested: **NAV-SB1C-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960506
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-SB1C-830-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

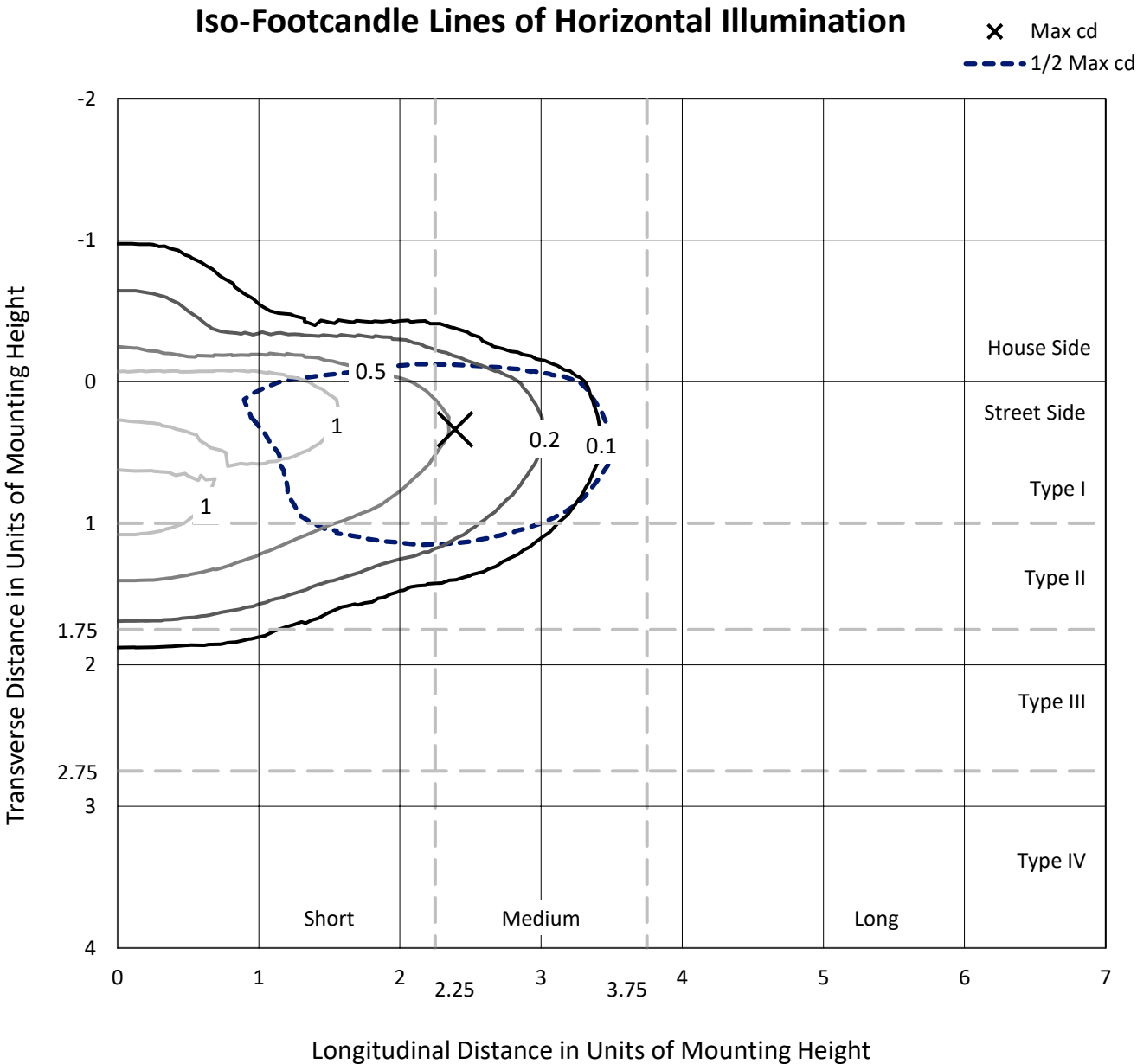
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5038.9 lumens
Efficiency: N/A
Efficacy: 92.6 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): 54.4
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



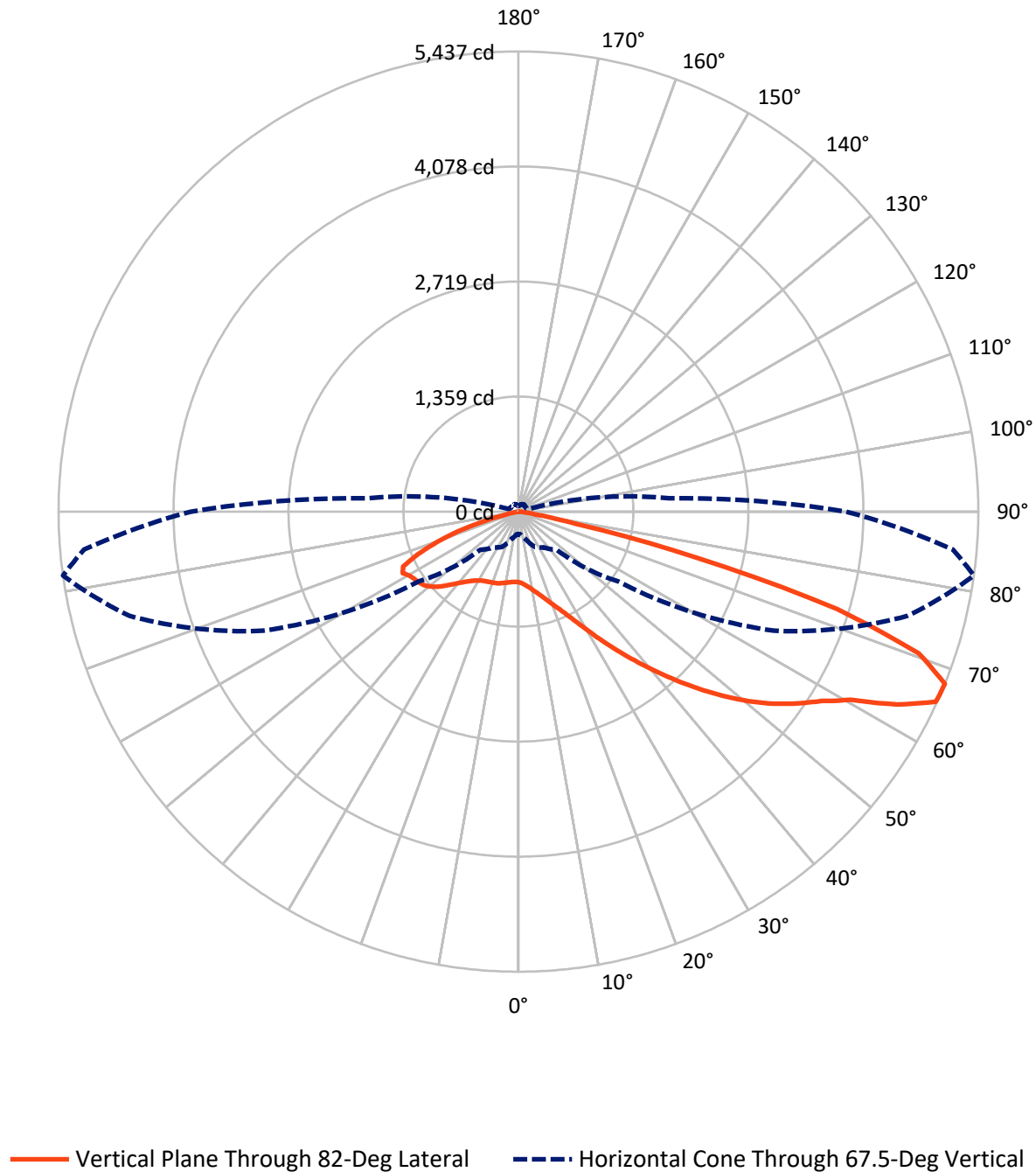
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Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	912.8	0.0	912.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4126.1	0.0	4126.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	5038.9	0.0	5038.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	1.5
10°-20°	193.3	3.8
20°-30°	309.5	6.1
30°-40°	547.4	10.9
40°-50°	959.1	19.0
50°-60°	1279.1	25.4
60°-70°	1190.8	23.6
70°-80°	457.0	9.1
80°-90°	28.4	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°	5038.9	100.0
0°-180°	5038.9	100.0

Coefficient of Utilization



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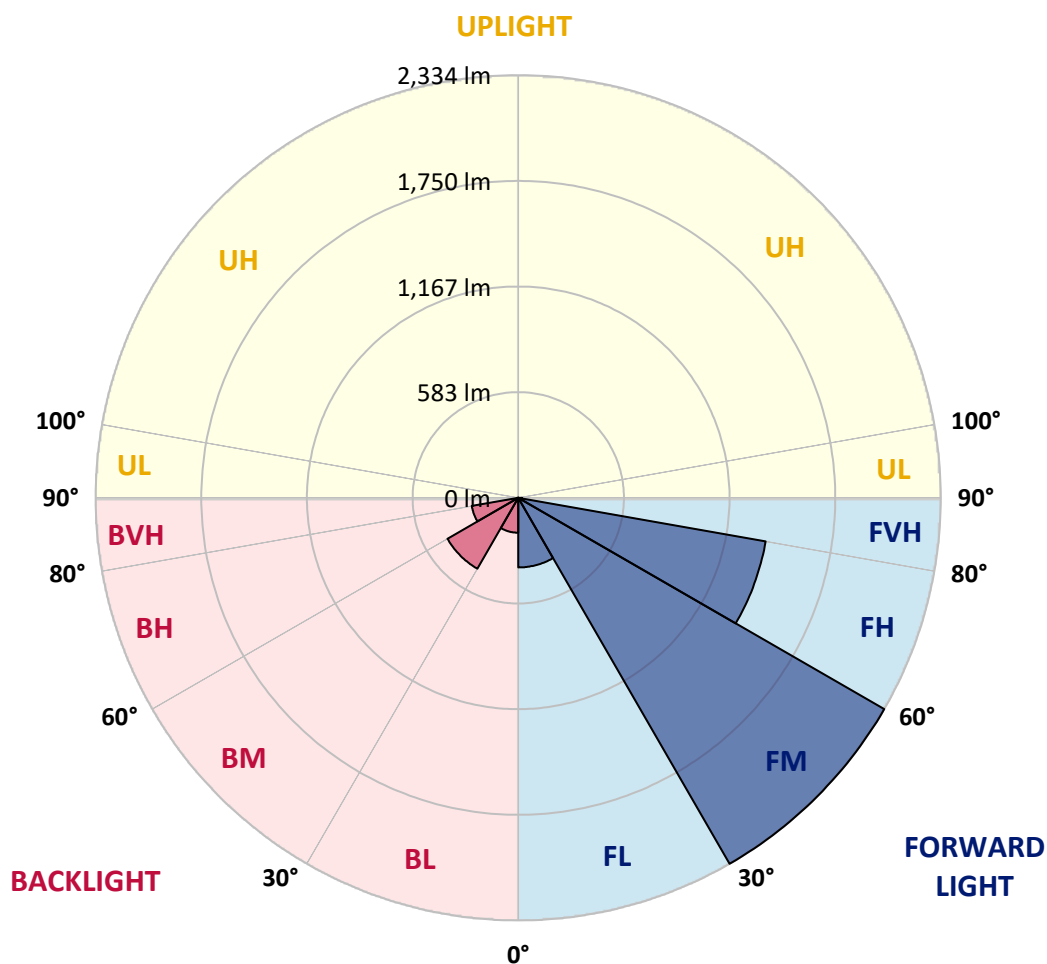
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	384.4	7.6			
FM	(30°-60°)	2333.8	46.3			
FH	(60°-80°)	1387.3	27.5			G1/1800
FVH	(80°-90°)	20.6	0.4			G1/100
BL	(0°-30°)	192.8	3.8	B1/500		
BM	(30°-60°)	451.7	9.0	B1/1000		
BH	(60°-80°)	260.5	5.2	B1/500		G1/500
BVH	(80°-90°)	7.8	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°	834.8	834.8	834.8	834.8	834.8	834.8	834.8	834.8	834.8	834.8	834.8
2.5°	882.3	887.3	884.5	883.0	880.5	876.9	873.9	864.9	855.5	849.3	847.1
5°	900.1	905.2	904.8	906.2	908.0	909.2	908.5	898.3	884.9	874.3	868.2
7.5°	884.9	890.6	895.3	902.6	915.3	928.8	935.3	933.1	919.3	904.8	897.2
10°	841.6	847.9	859.1	876.2	903.0	932.0	956.3	967.6	958.9	942.9	932.3
12.5°	762.6	768.7	790.9	827.9	872.9	923.3	969.8	999.9	1002.0	986.0	973.7
15°	673.7	679.9	703.5	749.9	818.5	899.3	977.0	1033.9	1053.2	1039.4	1024.5
17.5°	618.6	624.0	641.8	679.2	750.6	851.5	974.5	1070.2	1114.1	1103.2	1085.5
20°	601.9	606.6	614.9	641.0	700.6	801.8	957.8	1104.3	1179.8	1173.6	1153.6
22.5°	619.6	624.0	626.6	638.2	675.5	769.2	936.7	1139.2	1255.9	1256.6	1232.4
25°	660.6	665.0	662.0	669.3	685.6	758.9	928.8	1180.2	1351.8	1359.8	1332.2
27.5°	728.2	728.5	721.6	721.2	723.8	774.2	937.1	1224.1	1472.5	1487.5	1453.3
30°	863.5	858.0	831.5	802.9	789.8	819.9	960.3	1275.9	1615.1	1641.6	1598.8
32.5°	1072.0	1064.1	1015.5	946.9	877.9	893.6	1002.0	1335.1	1770.4	1818.2	1766.1
35°	1298.4	1296.2	1245.5	1143.5	1023.1	998.4	1069.9	1412.7	1939.8	2016.0	1954.0
37.5°	1508.8	1507.8	1478.8	1358.6	1212.1	1144.6	1178.6	1514.2	2121.2	2231.5	2158.2
40°	1701.1	1704.4	1675.4	1567.9	1420.3	1332.2	1326.8	1639.8	2323.0	2466.3	2379.1
42.5°	1867.2	1870.9	1841.5	1762.1	1626.1	1539.7	1508.5	1793.6	2520.0	2718.4	2615.4
45°	1980.1	2002.5	1998.2	1934.8	1837.1	1747.5	1726.9	1986.7	2744.5	2985.7	2865.0
47.5°	2012.0	2032.7	2065.4	2074.1	2014.5	1926.4	1951.1	2219.1	2971.6	3253.5	3116.0
50°	1933.3	1952.5	2020.4	2110.7	2152.1	2124.8	2169.1	2468.4	3204.1	3520.5	3362.3
52.5°	1778.1	1797.6	1883.2	2026.2	2194.8	2280.5	2387.8	2714.0	3429.4	3773.3	3595.6
55°	1553.5	1574.1	1684.1	1845.8	2113.2	2344.7	2570.4	2959.3	3635.9	4000.8	3806.0
57.5°	1248.0	1263.2	1377.5	1603.9	1907.9	2280.8	2705.0	3227.0	3830.3	4224.3	4014.6
60°	813.3	826.8	959.6	1212.1	1567.6	2067.5	2731.8	3525.6	4088.6	4514.9	4295.8
62.5°	540.9	550.0	628.7	814.1	1103.9	1657.9	2574.7	3763.9	4467.4	5020.7	4777.9
65°	371.2	380.2	458.9	588.0	713.2	1096.8	2123.1	3732.3	4810.5	5422.2	5135.2
67.5°	264.9	272.4	339.2	461.1	516.3	637.0	1439.2	3328.9	4761.2	5437.4	5154.5
70°	189.7	194.1	249.3	359.2	410.3	382.7	800.3	2546.0	4168.8	5021.0	4761.9
72.5°	132.7	134.3	173.0	273.6	330.5	279.3	380.9	1697.5	3153.0	3940.9	3691.7
75°	90.0	91.7	116.4	200.6	265.2	213.3	201.7	910.2	1850.9	2181.4	1955.4
77.5°	55.1	55.9	75.1	137.1	198.4	162.6	129.9	385.6	716.2	703.0	599.3
80°	31.2	31.2	47.9	85.3	135.3	104.9	91.0	164.0	226.7	199.2	175.6
82.5°	17.4	17.7	34.8	53.0	89.6	62.0	50.0	75.8	98.0	86.7	75.4
85°	7.3	8.0	21.4	25.0	42.8	30.9	20.3	31.9	36.3	32.3	23.6
87.5°	0.7	1.1	6.6	4.7	5.1	6.1	2.9	6.1	5.1	5.1	3.6
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°	834.8	834.8	834.8	834.8	834.8	834.8	834.8	834.8	834.8	834.8	834.8
2.5°	840.2	834.8	821.0	805.0	784.0	773.9	760.0	750.6	742.6	743.3	736.1
5°	856.6	842.8	811.9	773.5	725.6	691.5	655.2	630.2	609.9	605.5	595.7
7.5°	879.0	857.3	803.2	733.9	653.0	591.7	536.9	501.7	476.7	468.7	460.7
10°	908.0	876.5	791.9	684.2	567.7	489.7	431.0	403.4	386.3	380.6	376.2
12.5°	941.8	898.6	777.1	623.6	480.0	404.9	367.5	353.7	348.3	346.4	345.4
15°	984.2	926.2	754.6	551.8	405.6	353.0	337.0	335.2	335.9	335.2	334.9
17.5°	1034.6	956.3	717.9	477.8	355.6	326.5	320.7	322.2	324.0	323.6	322.9
20°	1089.8	986.0	671.2	412.2	321.4	307.6	304.4	305.9	307.3	306.6	306.2
22.5°	1152.6	1018.0	619.3	361.0	298.6	290.3	286.6	287.0	287.0	285.6	284.7
25°	1227.6	1053.2	564.9	324.7	281.2	274.6	270.3	268.9	266.6	262.3	261.6
27.5°	1317.3	1090.5	512.6	299.3	267.4	261.2	256.1	252.5	247.0	239.8	239.0
30°	1418.1	1135.9	468.3	283.3	256.5	250.3	244.6	239.0	231.1	222.0	221.3
32.5°	1536.8	1184.5	436.0	272.9	246.7	240.2	233.3	226.7	218.0	209.0	209.3
35°	1678.2	1243.3	417.2	265.6	239.0	230.4	222.7	215.5	209.0	201.0	200.3
37.5°	1831.7	1305.6	411.4	261.9	234.0	220.6	211.9	206.7	206.0	201.3	201.0
40°	1999.7	1379.6	415.7	259.7	228.6	211.2	201.7	200.6	202.4	194.1	194.4
42.5°	2177.4	1467.5	423.0	257.2	220.9	201.7	192.6	192.6	191.2	179.6	179.6
45°	2369.7	1568.7	430.3	251.0	211.9	192.3	185.4	182.9	176.7	165.4	165.0
47.5°	2563.4	1671.8	435.7	239.8	201.0	184.3	178.1	172.3	163.3	153.1	152.7
50°	2747.4	1764.2	429.9	223.1	188.6	176.7	170.1	162.2	152.4	145.4	144.4
52.5°	2911.7	1844.4	405.3	203.6	175.6	168.7	162.9	154.6	146.6	139.3	138.6
55°	3054.7	1909.4	361.7	185.0	164.0	161.8	156.0	145.4	134.6	128.4	127.7
57.5°	3191.8	1958.7	307.3	169.7	153.4	154.2	145.4	136.0	125.9	119.3	118.6
60°	3374.3	2024.7	252.2	155.6	142.2	144.4	135.0	128.0	115.4	107.0	106.0
62.5°	3666.0	2127.4	200.3	138.3	129.1	129.9	125.9	117.6	102.3	92.6	91.7
65°	3897.5	2089.7	157.8	119.3	114.3	115.4	115.4	106.3	90.0	78.7	77.6
67.5°	3871.3	1789.2	125.9	100.9	100.1	100.9	103.4	95.7	79.8	70.7	69.3
70°	3566.2	1423.2	100.9	83.8	87.0	85.3	92.6	87.4	71.9	62.7	61.7
72.5°	2909.9	1025.2	76.9	69.3	66.7	69.7	83.4	78.7	59.9	49.7	48.6
75°	1700.4	547.0	57.3	54.7	48.3	58.0	74.0	67.1	45.7	36.6	35.6
77.5°	553.6	190.9	42.1	40.3	35.9	46.8	63.1	56.6	37.4	29.0	28.0
80°	148.4	57.7	28.7	26.4	23.3	34.8	50.0	45.0	26.9	18.9	18.6
82.5°	59.4	24.3	16.7	14.9	12.7	24.0	39.6	36.3	20.0	12.0	12.0
85°	19.3	8.0	6.1	4.7	5.8	14.9	23.6	24.7	14.1	6.1	4.7
87.5°	2.6	1.1	1.1	1.4	1.1	2.6	7.3	6.9	4.0	0.7	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)