

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: P959413

Luminaire Tested: **NAV-SB1A-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-827-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3909.4 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

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



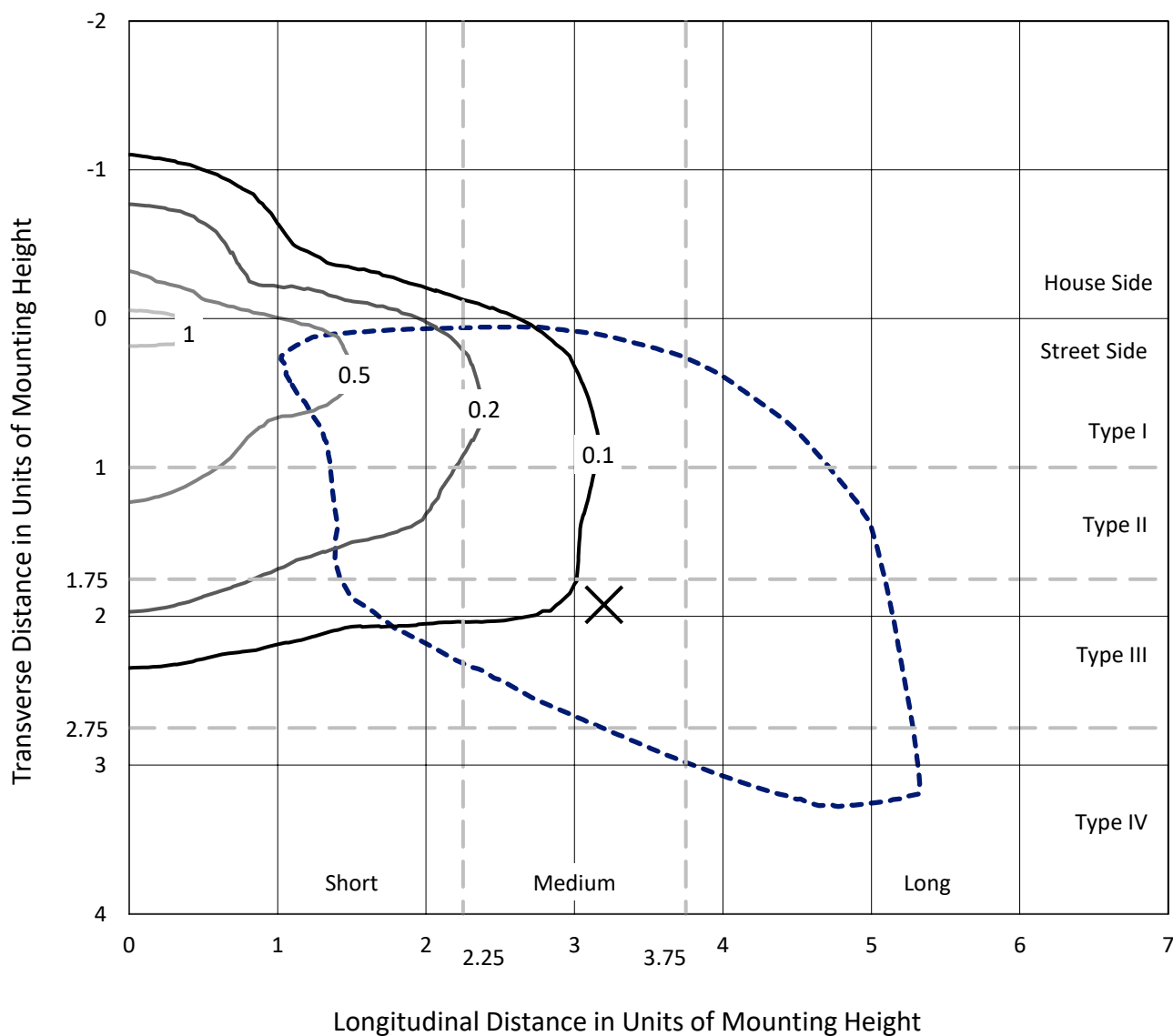
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

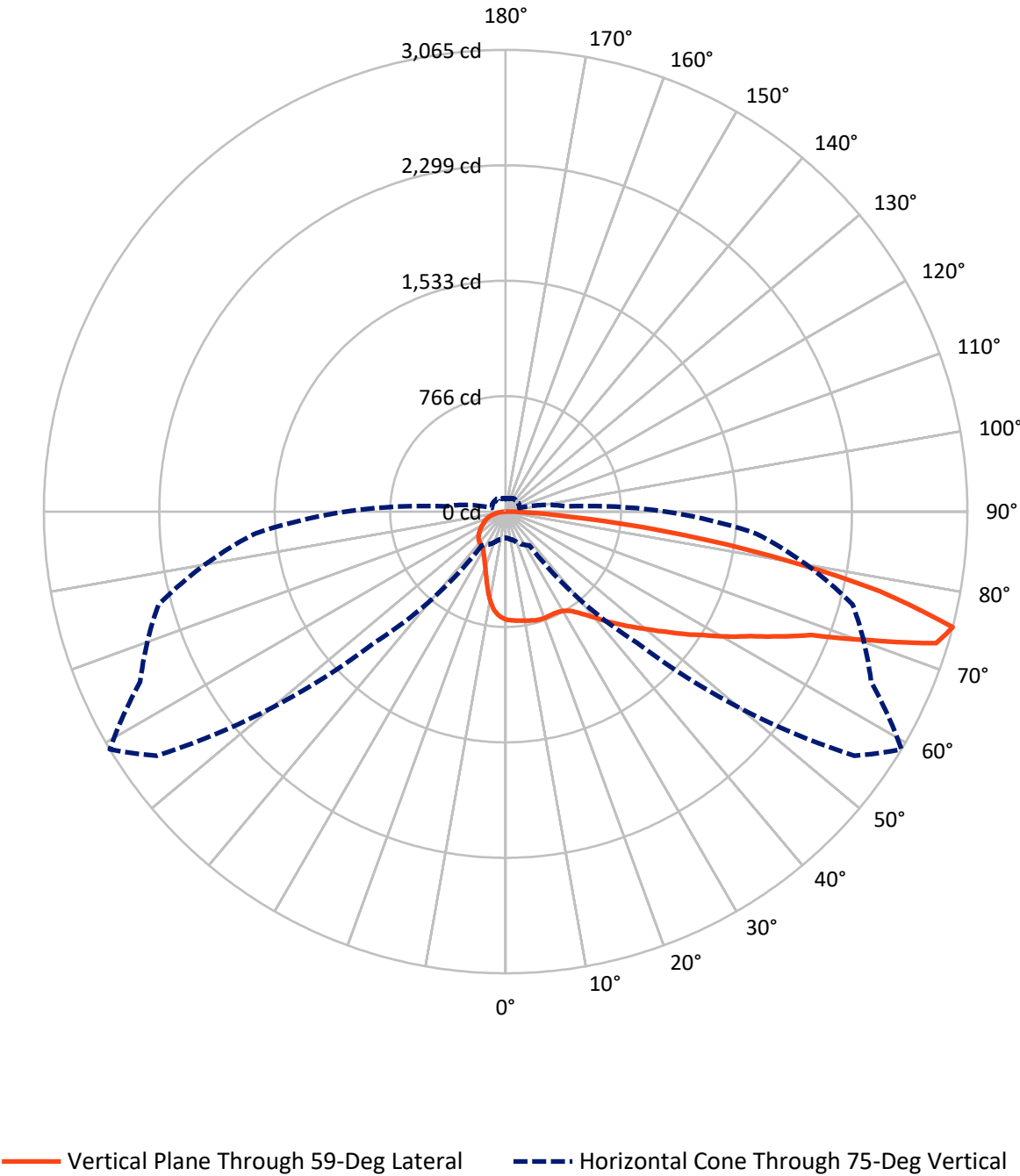
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	733.2	0.0	733.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3176.1	0.0	3176.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	3909.4	0.0	3909.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	1.6
10°-20°	164.5	4.2
20°-30°	249.8	6.4
30°-40°	371.3	9.5
40°-50°	552.2	14.1
50°-60°	749.6	19.2
60°-70°	915.1	23.4
70°-80°	718.2	18.4
80°-90°	124.4	3.2
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°	3909.4	100.0
0°-180°	3909.4	100.0

Coefficient of Utilization



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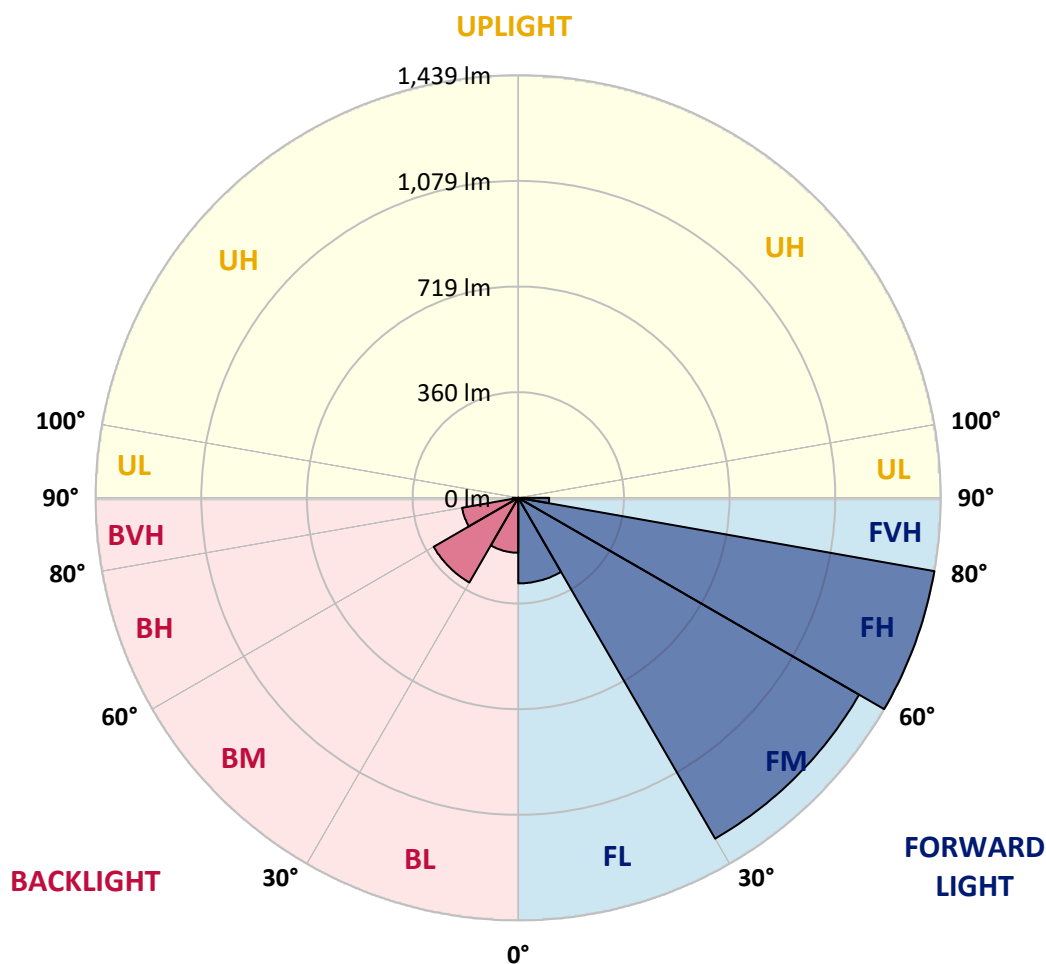
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	291.5	7.5			
FM	(30°-60°)	1340.3	34.3			
FH	(60°-80°)	1439.0	36.8			G1/1800
FVH	(80°-90°)	105.4	2.7			G2/225
BL	(0°-30°)	187.1	4.8	B1/500		
BM	(30°-60°)	332.8	8.5	B1/1000		
BH	(60°-80°)	194.3	5.0	B1/500		G1/500
BVH	(80°-90°)	19.0	0.5			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6
2.5°	723.6	721.1	723.6	722.6	722.2	721.3	721.5	723.0	722.2	723.2	719.7
5°	718.8	717.3	719.9	719.2	722.0	722.4	725.1	726.8	727.9	728.1	725.3
7.5°	710.8	709.3	712.9	715.9	721.8	723.4	729.1	731.8	733.3	735.8	731.8
10°	681.6	681.0	689.8	700.9	714.8	723.4	732.1	736.7	739.0	745.7	741.1
12.5°	629.9	630.7	642.3	663.7	691.5	719.2	735.4	742.2	745.7	754.2	752.0
15°	580.5	580.3	592.9	615.7	654.7	700.7	737.1	748.7	754.8	767.2	765.5
17.5°	551.9	551.0	559.9	577.3	613.5	672.3	732.9	752.2	765.3	780.8	779.4
20°	546.5	544.9	549.5	558.1	583.8	641.2	722.0	752.2	773.7	793.9	793.0
22.5°	565.7	562.9	561.1	560.1	571.4	615.5	709.6	749.7	786.1	812.6	811.2
25°	604.2	600.0	590.3	580.9	577.5	604.0	698.6	749.1	804.6	837.8	832.4
27.5°	666.5	661.2	641.6	618.9	598.5	609.9	693.8	752.9	825.0	864.6	853.6
30°	743.6	738.0	713.3	678.4	641.9	631.7	699.9	764.0	851.1	900.1	878.6
32.5°	812.8	806.5	785.5	749.9	700.5	669.6	719.2	785.3	892.1	949.6	916.2
35°	874.2	866.8	848.0	815.2	772.4	722.8	754.2	822.9	950.4	1029.8	967.4
37.5°	934.4	925.8	905.2	870.4	840.6	793.7	802.3	871.2	1027.8	1127.4	1035.1
40°	1001.6	989.2	964.2	930.0	901.0	876.8	865.6	930.6	1106.4	1236.4	1119.6
42.5°	1066.8	1055.1	1025.2	996.0	959.6	952.6	939.0	1000.0	1192.4	1356.1	1205.5
45°	1137.1	1123.0	1086.8	1049.8	1026.9	1003.2	1010.0	1069.4	1276.7	1478.0	1295.5
47.5°	1202.9	1187.2	1144.5	1103.2	1090.6	1045.6	1075.3	1145.7	1364.5	1601.7	1384.7
50°	1238.5	1222.9	1187.4	1150.2	1140.2	1098.0	1145.9	1229.6	1456.3	1724.9	1470.3
52.5°	1268.1	1251.3	1204.8	1184.2	1181.3	1155.0	1233.0	1325.5	1548.3	1833.8	1552.9
55°	1299.7	1280.9	1221.7	1203.1	1216.6	1218.9	1336.3	1434.3	1645.4	1940.0	1630.9
57.5°	1336.1	1312.3	1237.8	1219.1	1251.1	1293.8	1454.9	1547.0	1740.9	2038.4	1700.3
60°	1370.3	1346.3	1268.9	1244.6	1288.3	1380.7	1590.9	1683.5	1849.0	2126.2	1765.9
62.5°	1377.1	1357.3	1293.8	1293.6	1338.8	1482.0	1752.0	1821.2	1943.4	2212.8	1824.8
65°	1260.5	1248.1	1210.5	1291.7	1411.1	1627.9	1931.4	1997.4	2063.5	2288.5	1876.6
67.5°	959.4	961.0	958.4	1115.0	1352.7	1837.6	2191.1	2186.1	2211.7	2373.5	1936.0
70°	438.7	448.5	512.9	769.7	1083.7	1861.8	2620.6	2555.2	2397.9	2483.5	1987.6
72.5°	237.0	244.6	270.9	372.9	651.5	1655.3	2941.5	2988.0	2645.4	2557.5	1931.0
75°	173.9	178.1	196.4	237.0	273.6	1230.3	2826.4	3065.0	2676.3	2384.9	1667.5
77.5°	130.2	132.0	147.0	187.8	140.0	648.6	2258.5	2538.3	2291.1	1959.4	1231.7
80°	94.4	96.6	107.6	140.9	98.2	237.2	1550.7	1781.7	1569.1	1249.0	613.9
82.5°	65.2	66.0	70.8	95.9	68.6	92.1	879.9	1044.8	875.9	438.3	165.7
85°	39.4	40.4	42.4	56.0	38.9	43.8	379.8	392.9	261.8	104.8	51.6
87.5°	16.2	17.2	19.0	23.6	15.4	12.2	62.6	78.6	49.0	30.7	16.0
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°	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6
2.5°	718.6	717.1	713.1	707.7	702.6	696.3	693.6	691.3	689.2	685.2	683.3
5°	723.0	719.0	708.3	694.4	678.7	661.4	644.6	633.0	623.1	615.7	609.7
7.5°	729.8	722.2	702.6	674.2	638.1	601.1	567.6	543.9	525.9	519.5	508.1
10°	736.7	727.6	693.6	643.5	581.1	524.1	479.7	455.3	441.0	436.3	429.3
12.5°	744.9	731.6	679.5	600.9	517.3	454.9	416.2	401.9	394.5	392.0	392.7
15°	756.9	735.0	658.3	547.5	456.5	404.4	379.4	369.5	365.7	365.5	366.3
17.5°	765.9	735.6	625.2	490.3	409.9	373.9	353.3	349.5	352.1	355.9	357.3
20°	776.0	730.0	581.9	438.1	377.1	347.2	338.6	341.1	347.2	352.7	354.5
22.5°	783.2	719.7	529.5	397.5	348.7	331.9	331.5	336.7	340.1	342.8	344.3
25°	789.5	702.2	474.1	363.4	325.3	322.6	327.2	325.5	323.3	325.5	327.0
27.5°	794.1	674.7	424.4	333.5	308.9	316.3	313.5	309.8	309.5	310.8	312.9
30°	792.6	637.9	383.6	305.1	297.4	304.5	298.0	297.4	296.7	297.4	299.7
32.5°	792.6	596.0	352.3	285.6	290.0	287.3	286.7	285.2	282.7	282.4	285.2
35°	797.0	554.1	325.3	275.1	283.9	277.4	277.8	274.2	269.0	266.5	269.0
37.5°	806.1	520.5	298.6	270.0	273.2	273.0	271.3	265.2	255.9	247.9	250.7
40°	828.0	510.7	280.3	267.7	268.1	270.7	266.2	254.5	233.4	220.4	222.1
42.5°	862.2	527.3	276.3	262.0	264.8	267.3	258.7	231.3	216.4	208.6	208.6
45°	905.8	556.3	285.0	253.8	256.8	261.2	235.5	222.5	215.8	216.0	217.0
47.5°	960.8	586.7	300.9	246.7	245.2	247.7	220.2	212.2	203.0	205.2	211.2
50°	1024.6	617.7	316.1	237.0	232.4	224.2	210.3	202.7	191.0	185.5	187.0
52.5°	1093.6	647.5	322.2	225.2	218.5	209.0	203.6	194.3	180.0	171.0	170.8
55°	1159.0	674.7	315.5	211.2	204.6	197.3	196.4	190.8	175.4	162.8	162.8
57.5°	1220.8	697.4	298.6	196.8	190.5	186.1	191.8	189.1	169.7	153.5	152.7
60°	1273.2	712.9	274.2	182.3	177.9	175.6	184.2	183.4	161.7	143.6	143.0
62.5°	1314.8	719.0	247.3	168.4	167.4	163.2	173.7	173.7	151.6	134.0	133.4
65°	1347.4	713.1	220.0	154.8	156.9	150.6	160.9	159.6	140.9	125.4	124.5
67.5°	1376.3	693.8	189.7	141.3	146.2	138.2	147.4	144.5	129.1	116.7	115.9
70°	1389.1	648.8	155.2	127.8	133.8	126.0	134.0	128.5	115.9	107.4	105.8
72.5°	1286.0	539.3	122.2	113.8	118.8	112.5	119.4	113.2	101.6	97.8	94.6
75°	1063.9	404.7	94.0	98.4	102.2	97.4	102.0	97.4	86.8	89.6	81.8
77.5°	772.6	273.2	72.0	82.2	83.9	81.4	85.4	80.2	70.6	70.0	66.8
80°	384.3	160.0	56.4	65.0	64.4	62.6	67.3	64.8	56.8	60.2	59.6
82.5°	111.2	68.6	41.0	45.6	44.4	44.8	48.2	49.4	74.0	73.4	75.0
85°	35.0	27.0	24.6	25.4	24.2	24.8	28.4	56.4	52.2	30.5	33.0
87.5°	9.0	9.2	6.1	6.6	6.8	8.0	9.0	34.2	16.4	10.8	11.4
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)