

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: P959433

Luminaire Tested: **NAV-SB1A-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-827-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

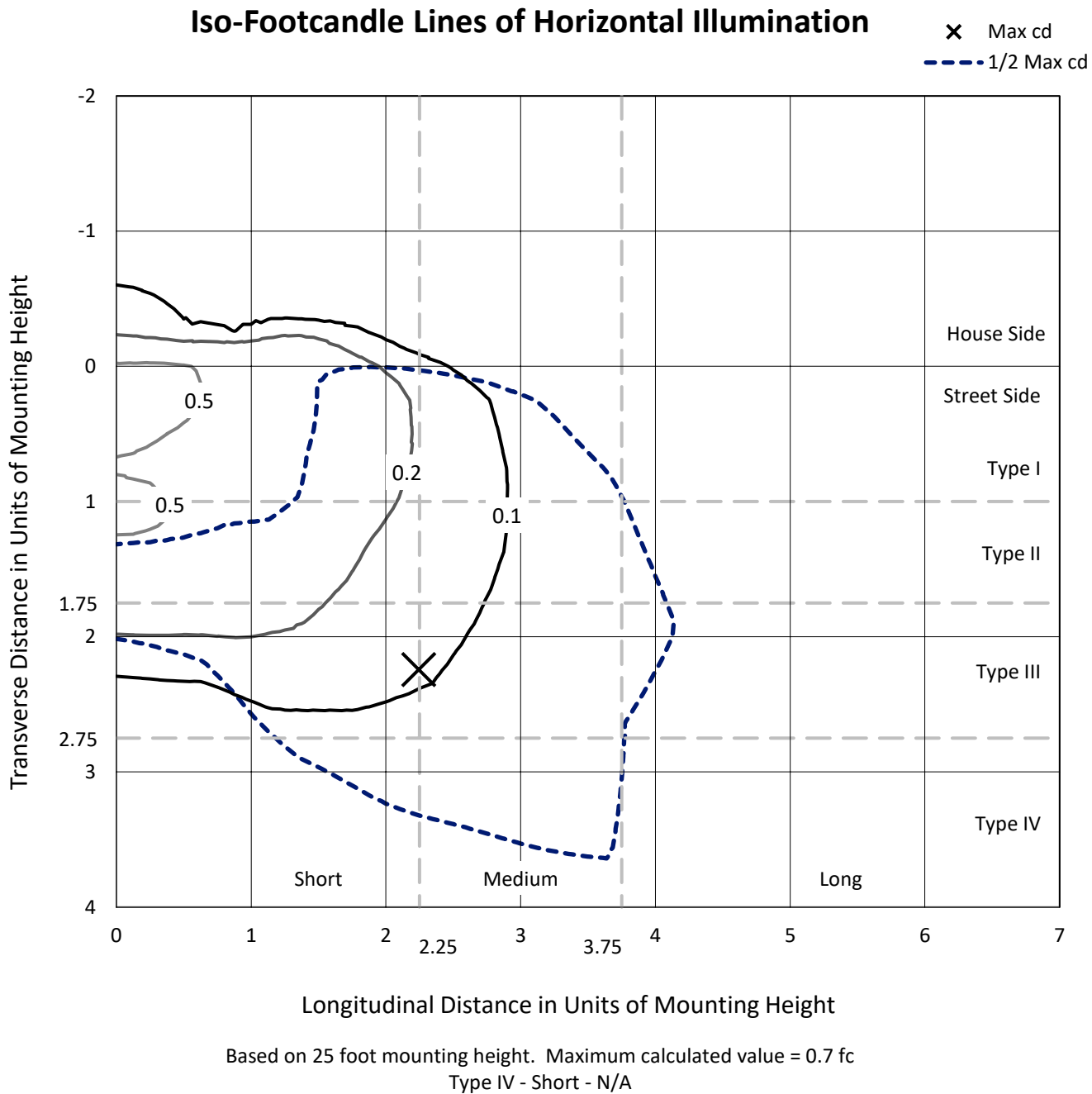
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3081.1 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - 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

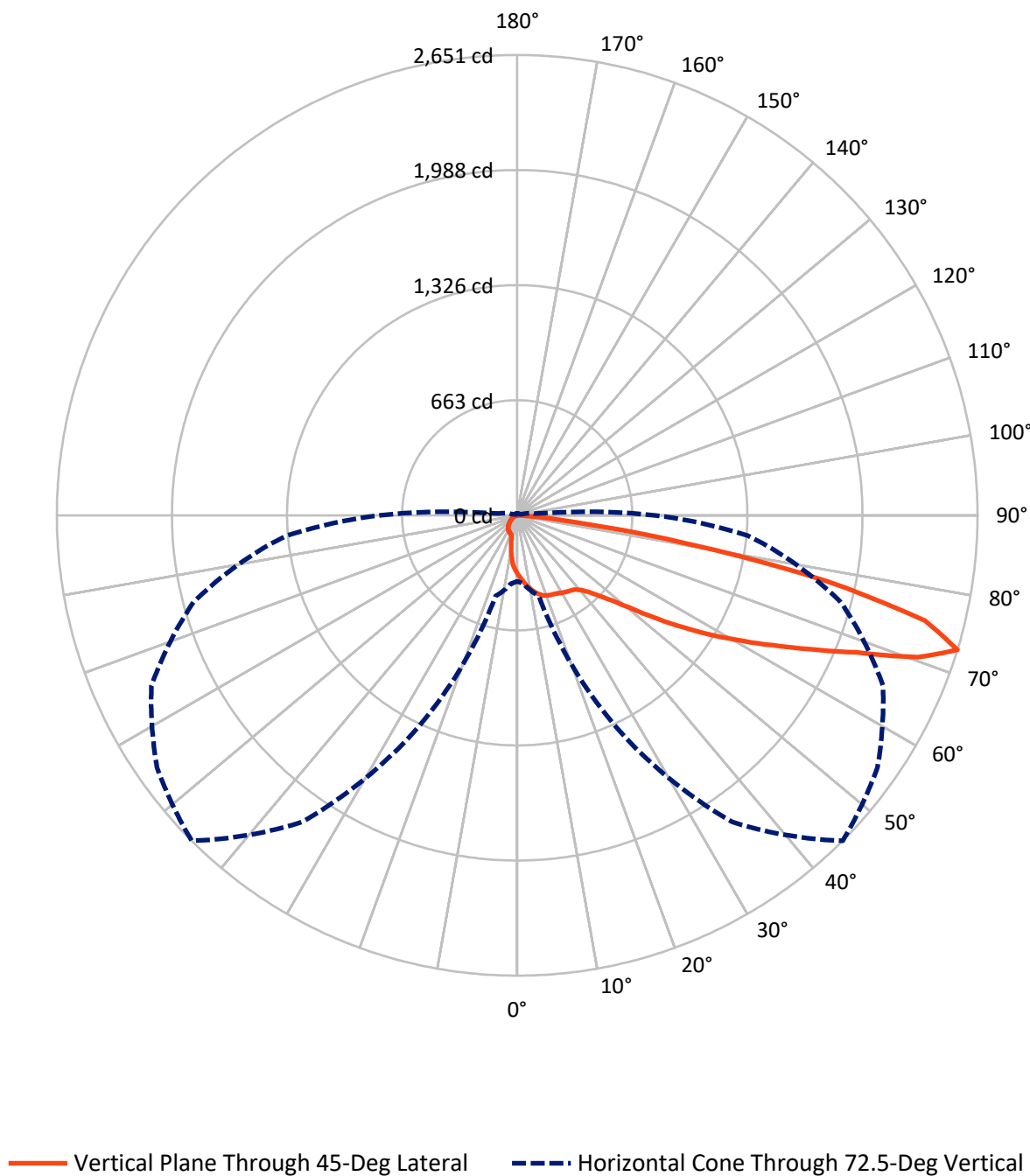


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	323.7	0.0	323.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	2757.4	0.0	2757.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	3081.1	0.0	3081.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.8	1.0
10°-20°	92.9	3.0
20°-30°	152.6	5.0
30°-40°	216.5	7.0
40°-50°	357.8	11.6
50°-60°	642.8	20.9
60°-70°	892.5	29.0
70°-80°	647.4	21.0
80°-90°	46.8	1.5
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°	3081.1	100.0
0°-180°	3081.1	100.0

Coefficient of Utilization



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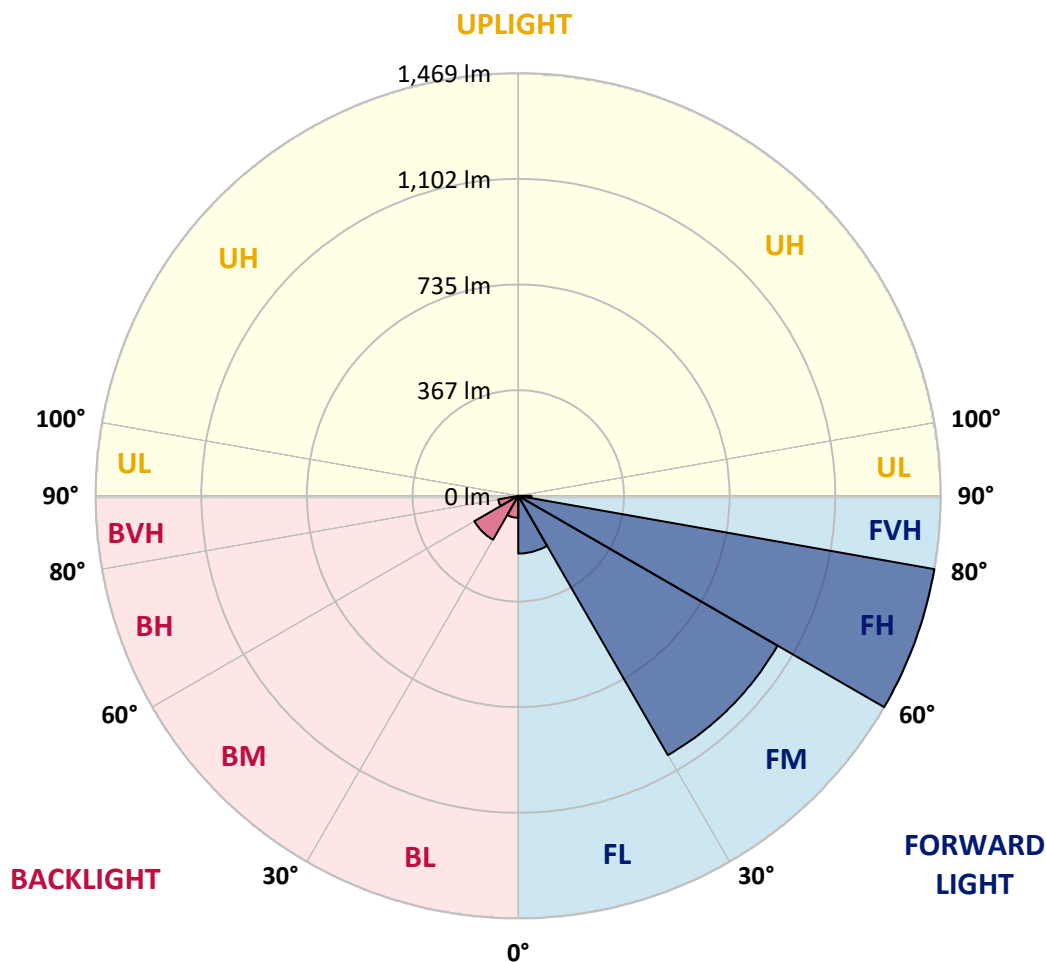
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	200.7	6.5			
FM	(30°-60°)	1041.0	33.8			
FH	(60°-80°)	1469.3	47.7			G1/1800
FVH	(80°-90°)	46.4	1.5			G1/100
BL	(0°-30°)	76.7	2.5	B0/110		
BM	(30°-60°)	176.1	5.7	B0/220		
BH	(60°-80°)	70.6	2.3	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	337.5	337.5	337.5	337.5	337.5	337.5	337.5	337.5	337.5	337.5	337.5
2.5°	368.7	369.3	368.9	366.3	362.1	359.9	358.5	354.3	351.7	346.8	341.7
5°	402.5	405.1	403.5	398.5	390.5	384.9	383.1	374.5	366.7	357.7	347.3
7.5°	438.5	439.7	437.1	430.5	419.7	410.1	408.7	396.7	384.3	370.3	356.1
10°	469.7	471.1	466.9	457.5	445.3	433.3	431.1	417.9	403.1	386.1	367.9
12.5°	495.7	497.1	491.7	480.3	466.9	454.5	452.3	438.5	422.3	403.3	380.7
15°	515.5	518.2	510.9	498.7	484.1	471.7	470.7	457.0	441.3	420.1	396.1
17.5°	527.1	529.7	522.9	508.1	495.7	485.1	483.9	472.5	457.9	437.7	410.9
20°	528.9	531.5	524.1	511.3	500.9	492.5	491.9	483.7	472.9	453.7	427.1
22.5°	523.3	526.4	519.7	509.3	502.2	497.8	496.9	492.3	486.3	469.9	442.3
25°	517.3	519.9	514.9	505.8	502.0	501.6	502.2	501.3	500.1	486.3	459.9
27.5°	516.9	519.7	514.0	505.3	503.3	507.7	508.3	512.3	513.3	501.1	476.9
30°	520.5	522.4	516.9	507.9	506.9	516.9	517.1	524.3	526.0	513.8	493.8
32.5°	528.3	530.4	524.9	511.7	510.2	524.3	524.9	534.4	537.1	527.3	511.5
35°	546.6	549.1	542.8	522.2	516.9	531.3	533.1	544.3	549.7	541.5	529.7
37.5°	592.2	584.9	576.3	543.5	532.3	542.2	545.3	558.4	568.1	558.6	551.7
40°	705.6	682.4	655.5	579.6	559.2	565.5	568.1	581.1	594.3	585.1	581.7
42.5°	875.8	848.4	805.0	662.9	599.8	603.0	604.9	616.2	634.9	627.6	628.4
45°	1027.4	1017.5	973.3	805.0	675.7	660.2	662.5	668.4	695.9	693.2	698.6
47.5°	1143.9	1138.2	1104.1	968.2	804.0	730.2	736.7	739.4	779.2	788.8	803.6
50°	1233.5	1231.3	1200.9	1113.4	971.6	833.4	835.8	829.8	889.4	913.4	941.4
52.5°	1318.0	1325.1	1302.7	1248.1	1150.6	968.7	968.2	940.5	1020.8	1057.0	1104.7
55°	1394.3	1396.9	1399.2	1385.7	1330.7	1122.7	1118.7	1073.2	1173.3	1210.7	1262.5
57.5°	1466.1	1467.1	1487.7	1515.3	1518.0	1287.9	1280.5	1226.1	1339.9	1366.6	1398.3
60°	1514.2	1519.0	1562.6	1639.2	1672.6	1458.5	1454.5	1399.0	1509.4	1521.8	1515.9
62.5°	1444.8	1474.3	1584.0	1735.9	1818.6	1647.6	1645.6	1593.5	1687.8	1677.6	1627.2
65°	1169.5	1219.3	1412.4	1801.3	1961.7	1858.7	1861.4	1805.9	1870.9	1838.1	1717.6
67.5°	818.1	870.6	1099.1	1806.6	2121.9	2106.7	2122.5	2035.3	2065.5	1991.9	1739.0
70°	565.7	592.9	741.6	1693.4	2246.5	2448.2	2447.8	2317.2	2258.9	2061.9	1629.6
72.5°	380.5	394.5	481.6	1343.5	2154.9	2651.2	2639.0	2532.6	2324.1	1928.3	1331.5
75°	160.5	170.8	222.9	755.0	1704.8	2425.5	2392.5	2238.1	2065.1	1518.4	830.8
77.5°	50.9	55.4	87.9	270.3	939.0	1823.2	1788.2	1397.7	1384.1	761.8	303.7
80°	24.2	28.2	49.4	108.5	369.5	991.6	986.8	634.1	595.4	205.7	61.0
82.5°	10.6	12.4	27.4	58.0	165.3	353.7	360.9	215.8	178.6	78.0	18.8
85°	3.4	4.4	12.6	26.8	69.8	87.9	86.8	51.4	72.0	42.4	6.6
87.5°	0.0	0.0	4.2	6.1	7.2	5.0	5.6	4.4	20.0	11.8	2.4
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°	337.5	337.5	337.5	337.5	337.5	337.5	337.5	337.5	337.5	337.5	337.5
2.5°	339.3	335.9	329.9	324.5	319.7	314.9	311.9	307.7	307.3	307.3	308.3
5°	341.5	336.1	325.5	314.4	301.6	289.4	277.2	265.4	261.6	258.9	260.1
7.5°	348.3	339.7	323.1	301.8	277.4	250.7	232.0	211.8	204.0	199.8	200.4
10°	357.9	346.1	320.9	283.7	244.2	207.8	181.1	159.2	150.8	147.2	147.2
12.5°	368.7	354.1	317.1	261.2	207.8	164.2	138.2	128.1	126.8	126.8	126.8
15°	381.5	363.9	310.7	234.7	169.7	130.0	120.7	121.2	122.4	123.2	123.2
17.5°	394.7	374.1	300.3	205.1	136.1	117.0	117.2	117.8	118.8	119.6	119.6
20°	409.1	384.5	286.7	173.5	116.7	113.2	113.8	114.4	115.2	115.6	115.9
22.5°	424.5	394.1	270.5	142.6	110.2	110.0	110.2	110.8	111.9	111.9	112.3
25°	440.9	404.9	251.9	120.1	106.8	106.8	107.2	107.7	108.5	108.5	108.8
27.5°	457.7	414.7	232.4	108.3	103.9	103.7	103.7	104.3	104.8	105.0	105.2
30°	476.1	426.3	212.8	105.8	101.6	100.6	99.9	100.3	100.8	101.0	101.4
32.5°	495.1	437.5	195.4	106.8	99.2	97.4	95.2	94.8	94.8	95.7	96.4
35°	516.1	449.7	181.9	110.4	98.0	92.8	89.4	87.5	87.7	89.0	89.6
37.5°	541.3	464.3	172.0	113.6	97.2	87.5	82.0	79.7	78.2	79.7	79.3
40°	574.3	486.1	164.9	116.1	96.1	81.4	74.0	70.2	67.5	68.4	68.0
42.5°	622.9	520.1	162.2	116.3	93.8	74.2	65.8	60.8	56.8	57.0	56.2
45°	691.1	573.9	176.2	113.6	88.8	66.4	57.2	50.4	48.0	47.4	46.4
47.5°	784.4	652.4	208.8	107.9	81.4	58.9	48.8	43.2	41.2	40.2	39.6
50°	909.6	753.1	245.0	101.6	74.0	51.8	41.8	38.2	37.0	36.0	35.8
52.5°	1054.7	855.4	274.7	95.2	66.6	45.4	37.4	35.4	34.2	33.4	33.2
55°	1187.9	925.8	273.0	88.6	59.6	40.4	34.2	33.0	31.8	31.0	30.5
57.5°	1270.7	935.6	225.0	81.2	51.4	36.4	31.4	30.5	29.0	28.0	27.8
60°	1308.7	879.3	157.7	71.5	43.2	32.6	28.2	27.8	25.8	24.4	24.0
62.5°	1315.7	774.6	105.2	59.6	36.0	29.0	25.0	24.4	21.8	19.4	18.0
65°	1287.5	624.8	72.8	46.4	30.7	25.2	21.4	20.2	17.4	15.0	14.0
67.5°	1198.3	438.7	50.6	33.4	26.0	20.0	17.0	16.6	14.6	12.4	11.8
70°	1034.9	250.1	33.8	25.0	20.6	13.6	13.4	13.8	11.8	10.0	9.2
72.5°	793.5	114.4	21.0	18.3	14.0	9.2	10.8	11.0	9.0	7.6	6.8
75°	467.1	49.0	13.2	11.8	7.2	6.1	7.8	8.0	6.1	4.8	4.2
77.5°	159.0	18.6	8.4	7.0	3.6	3.4	5.0	5.0	3.4	1.8	1.4
80°	36.2	7.0	4.2	2.8	1.6	1.4	1.6	1.4	0.8	0.2	0.0
82.5°	10.4	2.8	1.6	1.0	0.6	0.6	0.2	0.0	0.0	0.0	0.0
85°	3.0	1.2	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.2	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)