

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: P959743

Luminaire Tested: **NAV-SB1B-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959743
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-SB1B-722-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA 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: 3673.6 lumens
Efficiency: N/A
Efficacy: 92.3 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

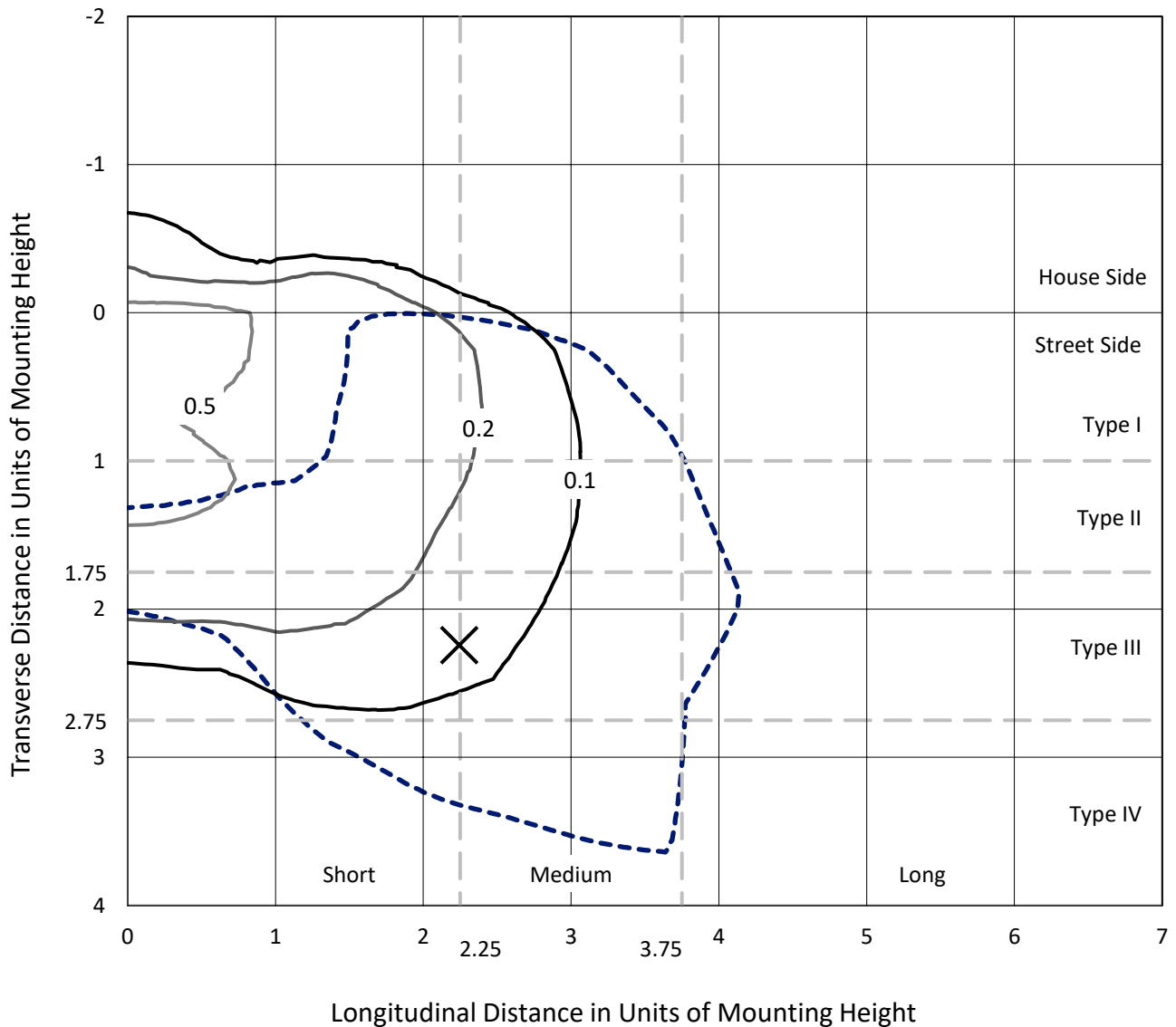
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P959743
 CATALOG NUMBER: NAV-SB1B-722-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

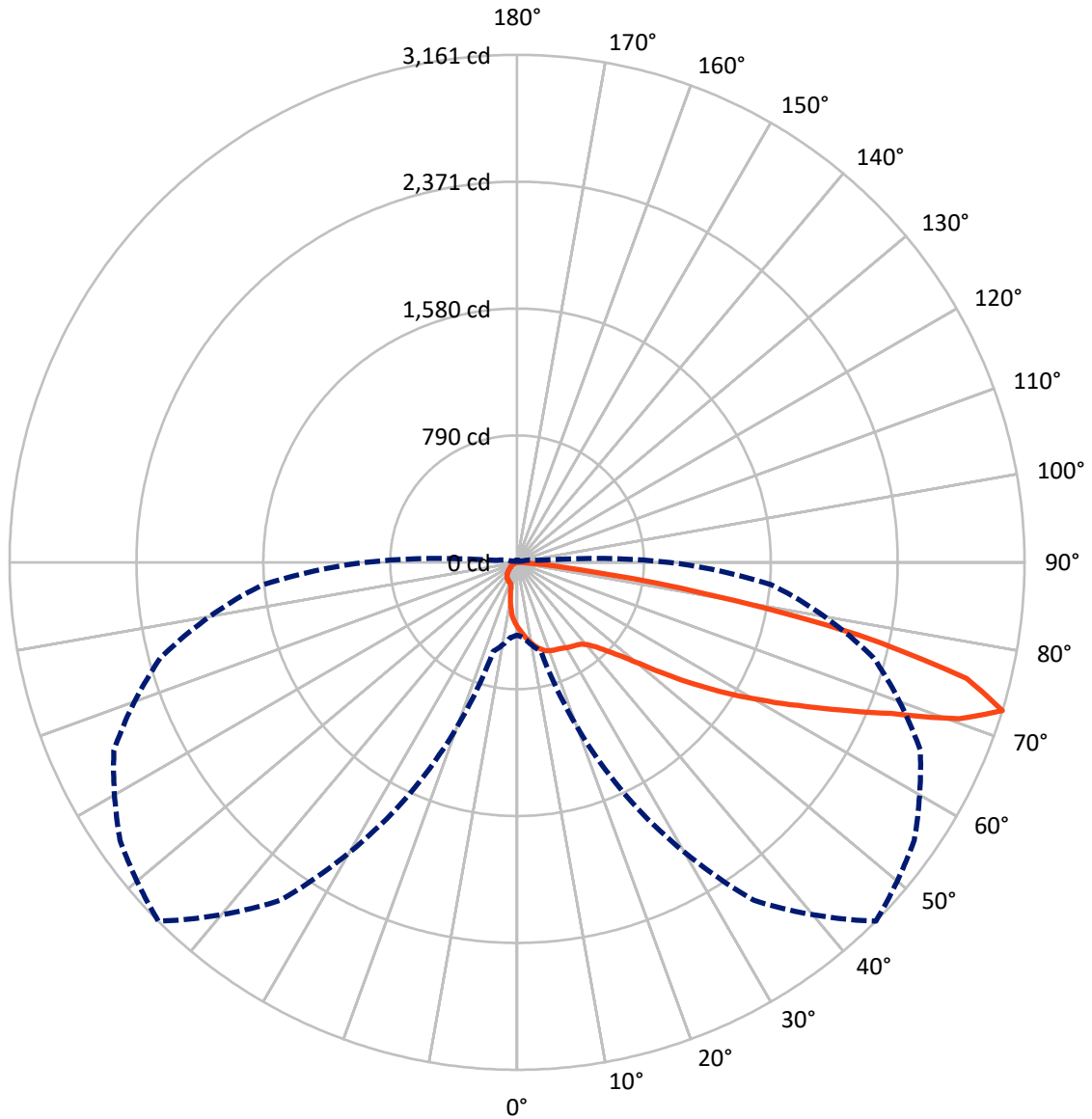
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P959743
CATALOG NUMBER: NAV-SB1B-722-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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 CATALOG NUMBER: NAV-SB1B-722-U-T4W-HSS

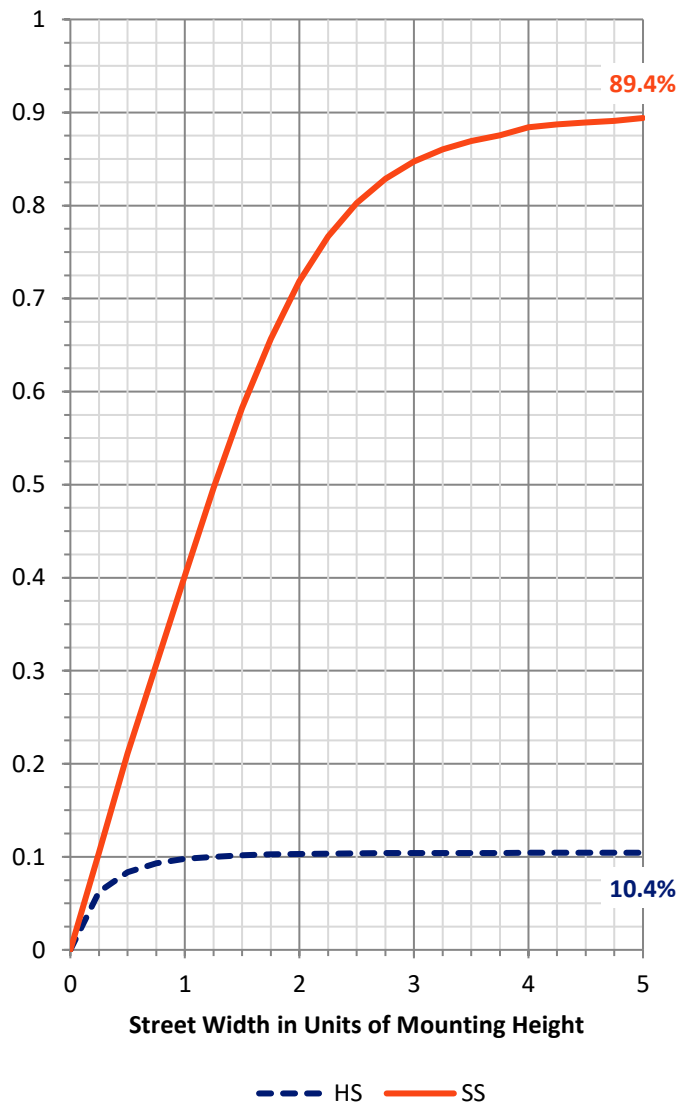
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	386.0	0.0	386.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3287.6	0.0	3287.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	3673.6	0.0	3673.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	1.0
10°-20°	110.8	3.0
20°-30°	182.0	5.0
30°-40°	258.1	7.0
40°-50°	426.6	11.6
50°-60°	766.4	20.9
60°-70°	1064.1	29.0
70°-80°	771.9	21.0
80°-90°	55.8	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°	3673.6	100.0
0°-180°	3673.6	100.0

Coefficient of Utilization



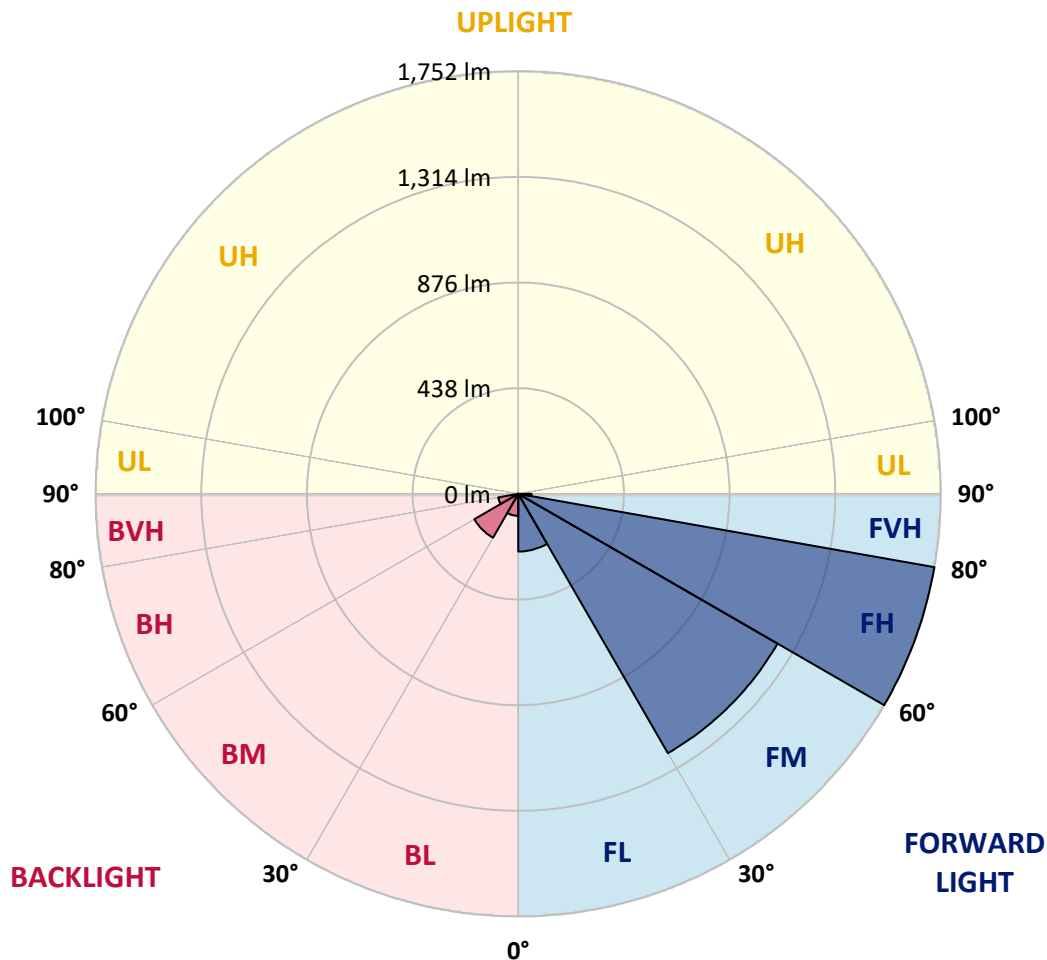
REPORT NUMBER: P959743
 CATALOG NUMBER: NAV-SB1B-722-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	239.3	6.5			
FM (30°-60°)	1241.1	33.8			
FH (60°-80°)	1751.8	47.7			G1/1800
FVH (80°-90°)	55.3	1.5			G1/100
BL (0°-30°)	91.4	2.5	B0/110		
BM (30°-60°)	209.9	5.7	B0/220		
BH (60°-80°)	84.2	2.3	B0/110		G0/110
BVH (80°-90°)	0.5	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



REPORT NUMBER: P959743
 CATALOG NUMBER: NAV-SB1B-722-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4
2.5°	439.5	440.3	439.8	436.8	431.8	429.1	427.5	422.5	419.2	413.5	407.4
5°	479.9	483.0	481.1	475.2	465.7	458.9	456.8	446.6	437.3	426.5	414.0
7.5°	522.9	524.3	521.0	513.3	500.5	488.9	487.2	472.9	458.1	441.6	424.6
10°	560.0	561.7	556.7	545.4	530.8	516.5	514.0	498.3	480.7	460.3	438.6
12.5°	591.0	592.8	586.3	572.7	556.7	541.9	539.4	522.9	503.5	480.9	453.9
15°	614.6	617.9	609.1	594.5	577.2	562.4	561.2	544.9	526.0	501.0	472.1
17.5°	628.3	631.6	623.4	605.8	591.0	578.5	577.0	563.4	545.9	521.8	489.9
20°	630.7	633.7	624.8	609.6	597.3	587.2	586.5	576.8	564.0	540.9	509.2
22.5°	623.8	627.6	619.6	607.3	598.8	593.5	592.6	587.0	579.7	560.2	527.4
25°	616.8	619.8	613.9	603.0	598.5	598.0	598.8	597.8	596.2	579.7	548.4
27.5°	616.3	619.6	612.8	602.6	600.0	605.3	606.1	610.8	612.0	597.6	568.7
30°	620.6	622.9	616.3	605.6	604.3	616.3	616.6	625.1	627.1	612.5	588.8
32.5°	629.9	632.4	625.9	610.1	608.3	625.1	625.9	637.1	640.4	628.6	609.8
35°	651.7	654.7	647.2	622.6	616.3	633.3	635.6	648.9	655.5	645.6	631.6
37.5°	706.1	697.3	687.1	647.9	634.7	646.5	650.2	665.7	677.3	665.9	657.7
40°	841.2	813.6	781.6	691.1	666.8	674.2	677.3	692.8	708.6	697.6	693.6
42.5°	1044.1	1011.5	959.9	790.4	715.1	718.9	721.2	734.7	757.0	748.2	749.3
45°	1224.9	1213.1	1160.5	959.9	805.6	787.1	789.9	796.8	829.7	826.5	833.0
47.5°	1363.9	1357.0	1316.4	1154.5	958.6	870.6	878.3	881.6	929.1	940.5	958.1
50°	1470.7	1468.1	1431.8	1327.5	1158.5	993.7	996.5	989.4	1060.4	1089.0	1122.4
52.5°	1571.4	1579.9	1553.2	1488.2	1371.9	1155.0	1154.5	1121.4	1217.1	1260.2	1317.2
55°	1662.4	1665.4	1668.2	1652.2	1586.5	1338.4	1333.7	1279.6	1398.9	1443.5	1505.2
57.5°	1747.9	1749.3	1773.8	1806.7	1809.9	1535.6	1526.8	1461.9	1597.6	1629.3	1667.3
60°	1805.4	1811.2	1863.0	1954.4	1994.2	1738.9	1734.2	1668.0	1799.6	1814.5	1807.4
62.5°	1722.6	1757.8	1888.7	2069.7	2168.2	1964.3	1962.1	1899.9	2012.3	2000.2	1940.0
65°	1394.4	1453.9	1684.1	2147.7	2338.9	2216.2	2219.3	2153.2	2230.6	2191.6	2047.8
67.5°	975.4	1038.1	1310.4	2153.9	2529.8	2511.8	2530.5	2426.8	2462.6	2374.8	2073.5
70°	674.6	706.8	884.2	2019.0	2678.5	2919.0	2918.5	2762.8	2693.3	2458.4	1943.1
72.5°	453.6	470.4	574.2	1601.8	2569.2	3160.9	3146.3	3019.5	2771.0	2299.1	1587.5
75°	191.4	203.6	265.8	900.2	2032.6	2891.8	2852.5	2668.5	2462.0	1810.4	990.5
77.5°	60.7	65.9	104.9	322.3	1119.6	2173.7	2132.1	1666.4	1650.1	908.3	362.0
80°	28.8	33.6	58.9	129.4	440.5	1182.2	1176.5	756.0	709.9	245.3	72.7
82.5°	12.5	14.8	32.6	69.2	197.1	421.8	430.3	257.3	212.9	93.1	22.3
85°	4.0	5.2	15.1	31.9	83.2	104.9	103.5	61.2	85.8	50.6	7.8
87.5°	0.0	0.0	5.0	7.3	8.5	6.0	6.8	5.2	23.8	14.0	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P959743
 CATALOG NUMBER: NAV-SB1B-722-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4
2.5°	404.5	400.5	393.4	386.9	381.1	375.4	371.9	366.8	366.3	366.3	367.6
5°	407.2	400.7	388.2	374.8	359.6	345.0	330.5	316.4	311.9	308.6	310.2
7.5°	415.2	405.0	385.2	359.8	330.8	298.9	276.5	252.5	243.2	238.2	238.9
10°	426.8	412.8	382.6	338.2	291.1	247.7	215.9	189.8	179.8	175.5	175.5
12.5°	439.5	422.3	378.1	311.4	247.7	195.9	164.7	152.7	151.2	151.2	151.2
15°	454.9	433.8	370.3	279.8	202.3	155.0	143.9	144.4	146.0	147.0	147.0
17.5°	470.7	446.1	358.0	244.5	162.3	139.4	139.7	140.4	141.7	142.7	142.7
20°	487.7	458.4	341.7	206.8	139.2	134.9	135.6	136.4	137.5	137.9	138.2
22.5°	506.0	469.9	322.5	170.0	131.4	131.1	131.4	132.1	133.4	133.4	133.9
25°	525.5	482.7	300.4	143.2	127.4	127.4	127.9	128.4	129.4	129.4	129.7
27.5°	545.6	494.5	277.1	129.1	123.8	123.6	123.6	124.3	124.8	125.2	125.4
30°	567.6	508.3	253.8	126.2	121.2	119.8	119.1	119.6	120.1	120.3	120.8
32.5°	590.3	521.5	233.0	127.4	118.4	116.1	113.6	113.1	113.1	114.1	114.8
35°	615.3	536.1	216.9	131.6	116.8	110.6	106.6	104.3	104.6	106.1	106.8
37.5°	645.4	553.6	205.1	135.4	115.8	104.3	97.8	95.0	93.3	95.0	94.5
40°	684.8	579.4	196.6	138.4	114.6	97.1	88.3	83.7	80.5	81.5	81.0
42.5°	742.7	620.1	193.3	138.7	111.8	88.6	78.5	72.5	67.8	68.0	66.9
45°	824.0	684.3	210.1	135.4	105.8	79.2	68.2	60.2	57.2	56.4	55.5
47.5°	935.3	777.8	249.0	128.6	97.1	70.2	58.2	51.4	49.1	47.9	47.2
50°	1084.4	897.9	292.1	121.2	88.3	61.7	49.9	45.6	44.2	42.8	42.6
52.5°	1257.5	1019.8	327.5	113.6	79.4	54.1	44.6	42.1	40.9	39.9	39.7
55°	1416.2	1103.8	325.4	105.6	70.9	48.2	40.9	39.4	37.8	36.9	36.4
57.5°	1515.1	1115.6	268.3	96.8	61.2	43.4	37.4	36.4	34.6	33.3	33.1
60°	1560.4	1048.4	188.1	85.3	51.4	38.8	33.6	33.1	30.9	29.1	28.6
62.5°	1568.7	923.5	125.4	70.9	42.8	34.6	29.8	29.1	26.0	23.1	21.5
65°	1535.0	745.0	86.7	55.5	36.6	30.1	25.6	24.1	20.8	17.8	16.8
67.5°	1428.7	523.1	60.5	39.9	31.1	23.8	20.3	19.8	17.3	14.8	14.0
70°	1233.9	298.2	40.4	29.8	24.6	16.3	16.1	16.5	14.0	12.0	11.1
72.5°	946.1	136.4	25.1	21.8	16.8	11.1	12.8	13.0	10.8	9.0	8.0
75°	556.9	58.4	15.8	14.0	8.5	7.3	9.3	9.5	7.3	5.7	5.0
77.5°	189.5	22.0	10.0	8.3	4.3	4.0	6.0	6.0	4.0	2.3	1.7
80°	43.2	8.3	5.0	3.3	2.0	1.7	2.0	1.7	1.0	0.2	0.0
82.5°	12.3	3.3	2.0	1.2	0.7	0.7	0.2	0.0	0.0	0.0	0.0
85°	3.5	1.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	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)