

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: P960261

Luminaire Tested: **NAV-SB1C-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-722-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4848.2 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

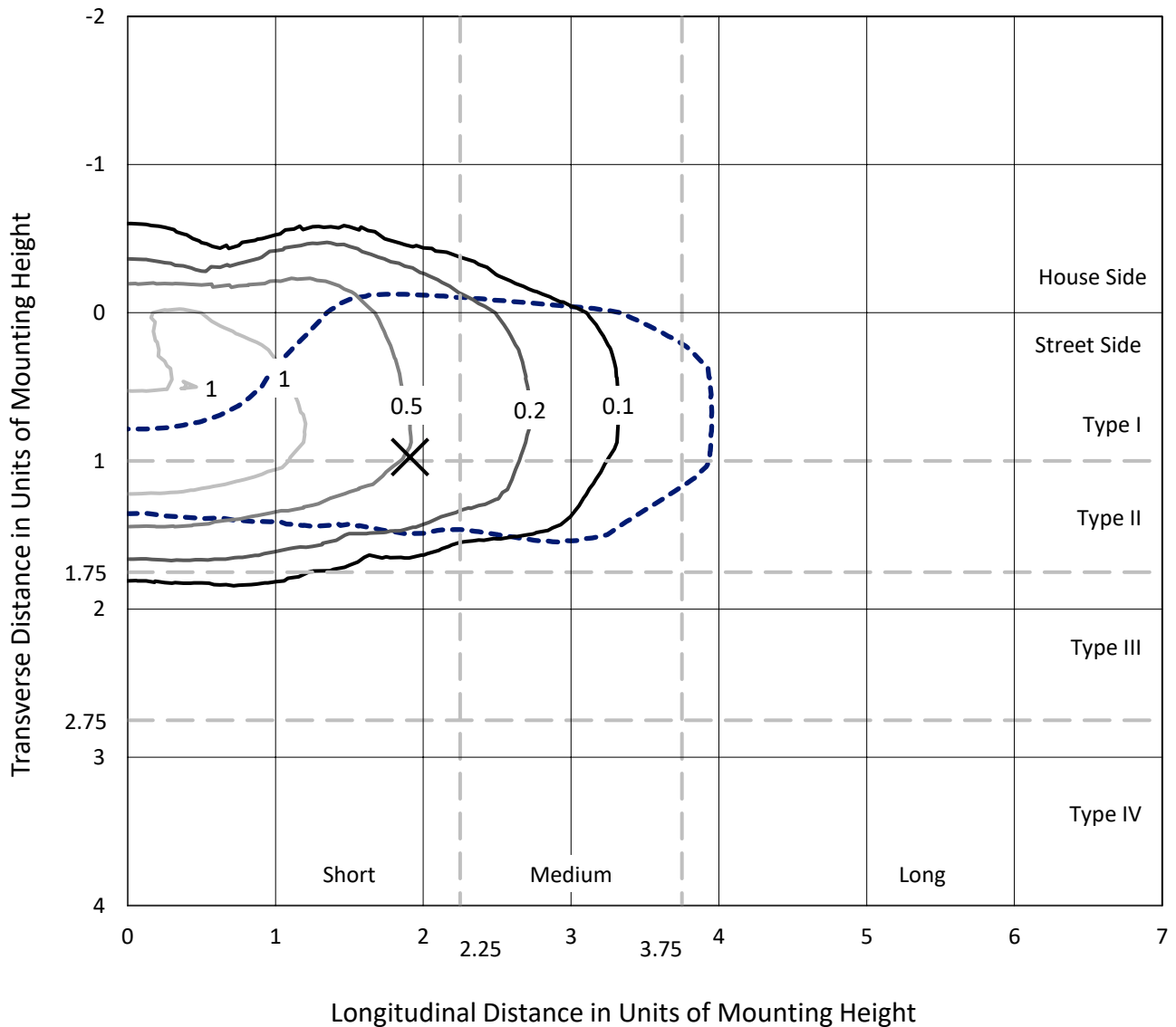
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

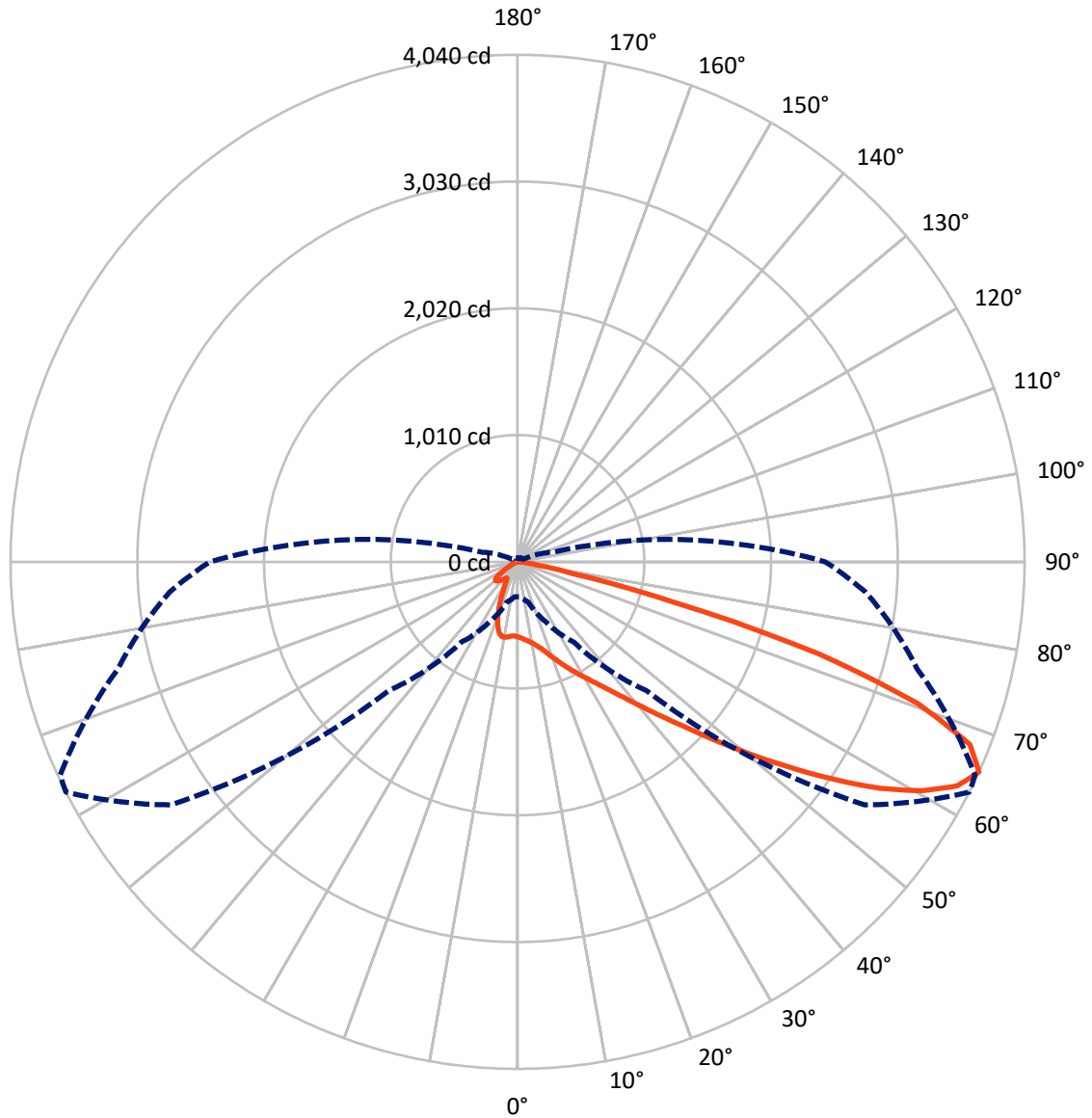
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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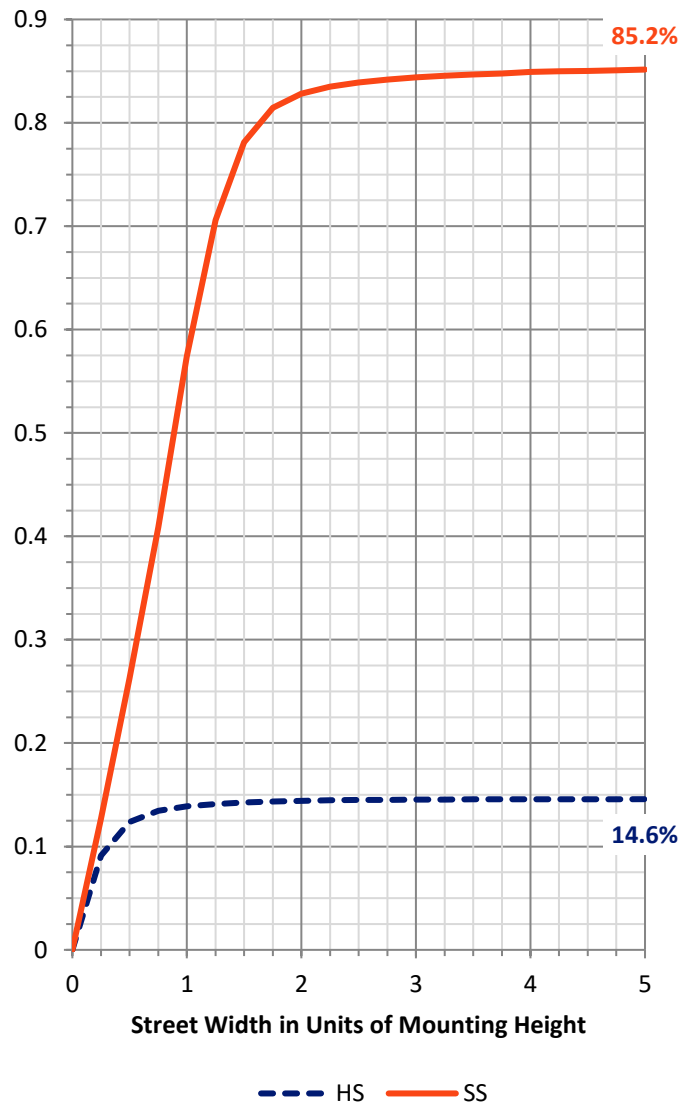
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	712.6	0.0	712.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	4135.6	0.0	4135.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	4848.2	0.0	4848.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	1.2
10°-20°	156.4	3.2
20°-30°	272.4	5.6
30°-40°	490.9	10.1
40°-50°	973.7	20.1
50°-60°	1326.3	27.4
60°-70°	1058.6	21.8
70°-80°	479.1	9.9
80°-90°	34.4	0.7
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°	4848.2	100.0
0°-180°	4848.2	100.0

Coefficient of Utilization

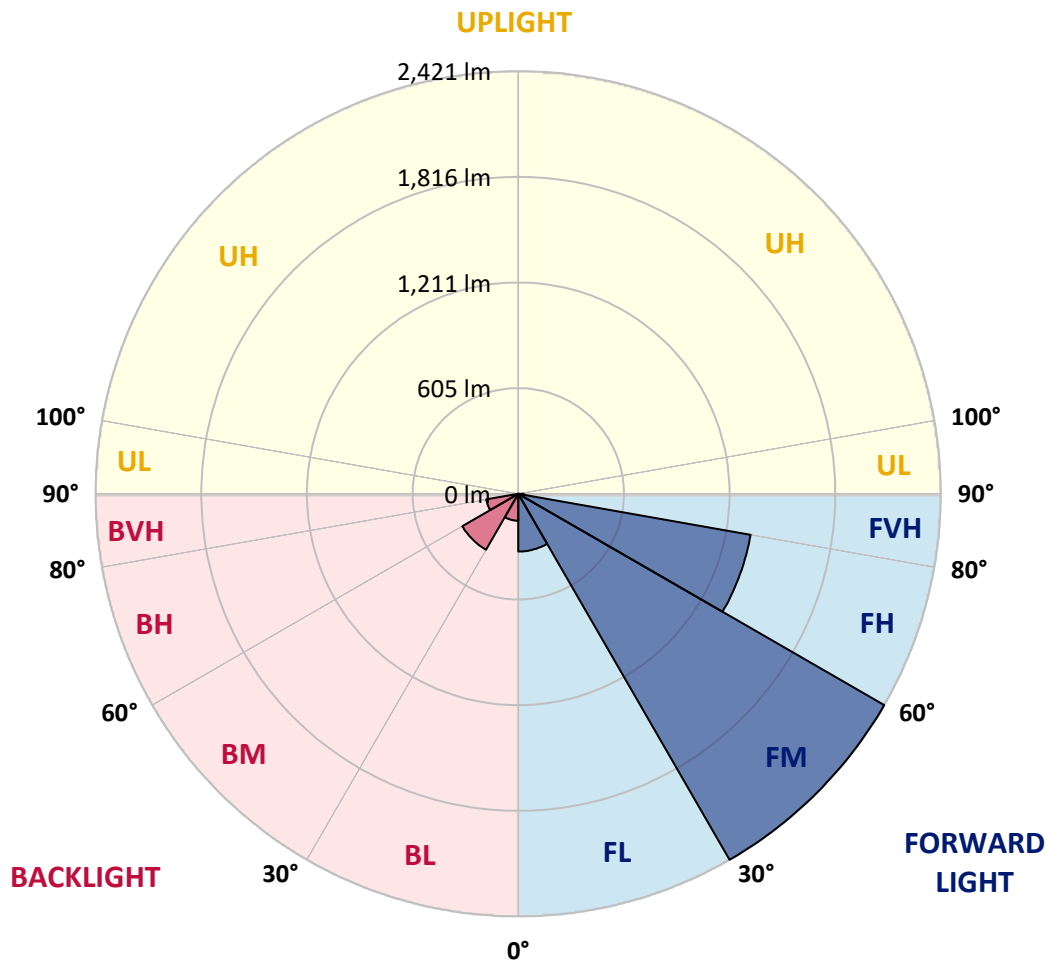


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.0	6.8			
FM (30°-60°)	2421.1	49.9			
FH (60°-80°)	1351.7	27.9			G1/1800
FVH (80°-90°)	31.9	0.7			G1/100
BL (0°-30°)	154.2	3.2	B1/500		
BM (30°-60°)	369.8	7.6	B1/1000		
BH (60°-80°)	186.0	3.8	B1/500		G1/500
BVH (80°-90°)	2.6	0.1			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4
2.5°	612.3	610.7	613.1	612.0	611.4	610.1	609.4	608.7	607.4	606.4	602.4
5°	614.1	613.1	615.4	617.4	619.4	621.4	622.4	623.7	622.4	619.7	615.7
7.5°	600.0	599.3	604.3	610.4	619.4	627.1	635.4	640.0	640.4	639.4	635.1
10°	599.0	597.4	602.4	609.7	621.4	635.1	649.7	659.7	661.0	665.4	660.7
12.5°	614.7	613.1	620.0	628.0	640.0	654.4	672.4	686.4	688.4	694.4	691.1
15°	641.0	638.7	646.8	657.0	672.4	688.8	707.8	720.5	722.1	729.5	723.4
17.5°	671.8	669.4	678.8	689.7	706.4	728.8	750.8	764.8	766.8	771.5	760.4
20°	711.1	708.1	715.4	725.4	743.1	769.8	796.1	816.2	815.8	815.8	797.9
22.5°	756.8	752.1	758.5	766.5	783.1	815.5	850.5	874.2	874.2	864.9	835.2
25°	805.9	801.1	808.1	815.5	830.1	866.8	907.8	937.3	938.6	922.6	875.2
27.5°	867.2	861.2	866.5	875.2	883.9	921.3	970.0	1004.0	1004.6	979.9	913.3
30°	985.2	968.2	951.6	942.3	946.3	983.3	1035.2	1073.0	1076.4	1042.3	954.6
32.5°	1201.4	1198.0	1139.4	1062.6	1022.6	1050.0	1108.3	1153.7	1155.7	1112.0	1008.3
35°	1537.3	1533.3	1438.9	1292.8	1162.4	1139.4	1197.1	1250.8	1249.5	1200.1	1078.0
37.5°	1938.2	1934.5	1810.2	1614.7	1403.5	1274.5	1311.5	1367.9	1376.2	1311.5	1168.1
40°	2280.7	2267.1	2188.4	1999.9	1723.7	1498.6	1474.3	1511.6	1520.3	1443.5	1282.5
42.5°	2540.3	2528.6	2488.5	2370.8	2111.3	1830.1	1666.0	1680.4	1690.0	1598.0	1413.9
45°	2674.6	2672.0	2688.0	2677.0	2506.2	2237.1	1940.2	1880.5	1884.2	1769.0	1562.9
47.5°	2693.6	2692.3	2765.3	2868.8	2845.7	2696.0	2292.1	2130.0	2116.9	1962.2	1725.1
50°	2581.6	2578.9	2719.0	2912.7	3072.5	3081.6	2691.6	2411.1	2382.4	2162.0	1894.2
52.5°	2223.7	2223.0	2453.1	2775.7	3152.3	3419.1	3086.6	2720.0	2672.0	2373.5	2073.0
55°	1711.0	1723.4	1987.2	2368.5	3006.8	3581.6	3441.1	3062.9	2989.2	2586.3	2237.7
57.5°	1212.1	1230.1	1490.9	1830.4	2555.9	3485.5	3680.9	3406.4	3327.0	2798.4	2404.8
60°	651.1	667.1	928.2	1333.5	1901.5	3127.3	3807.4	3704.6	3629.5	2999.9	2555.5
62.5°	387.9	393.2	501.3	860.9	1286.2	2389.2	3753.7	3931.7	3870.0	3168.9	2686.6
65°	278.5	279.5	333.8	525.6	780.8	1451.5	3377.1	4040.4	4021.5	3296.3	2783.7
67.5°	234.5	233.8	256.5	349.2	532.0	727.1	2588.2	3886.7	3967.5	3377.1	2838.7
70°	201.1	202.1	228.8	255.8	400.0	411.5	1286.8	3384.0	3556.1	3398.4	2835.4
72.5°	149.8	153.1	177.7	233.2	301.9	283.2	444.2	2509.2	2820.4	3202.0	2688.3
75°	105.8	107.4	125.0	196.1	225.1	206.1	226.8	1297.1	1696.1	2454.9	2200.4
77.5°	81.4	84.4	94.7	137.0	221.8	144.7	138.8	449.0	689.7	1482.9	1508.6
80°	44.1	49.4	68.4	99.0	155.8	102.4	68.7	178.8	233.8	693.4	581.7
82.5°	22.7	25.3	47.7	71.3	88.8	89.4	34.0	74.4	96.4	214.1	79.7
85°	9.0	11.0	32.0	39.4	45.7	44.1	15.4	30.0	34.6	59.3	24.4
87.5°	2.0	3.4	11.7	9.0	8.7	9.3	3.7	7.0	6.7	7.0	4.3
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°	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4
2.5°	602.1	600.6	597.1	593.1	588.3	585.7	584.0	583.7	581.4	579.6	581.4
5°	612.0	610.7	603.7	595.3	586.4	579.3	572.7	566.7	558.0	556.4	555.7
7.5°	632.0	628.4	617.0	605.7	588.7	568.4	543.7	515.3	489.9	482.3	478.7
10°	656.7	651.7	637.3	617.4	579.6	524.3	464.6	409.3	365.2	352.9	348.2
12.5°	684.8	680.4	661.4	624.4	542.0	441.6	350.2	281.5	238.8	228.2	225.1
15°	718.1	711.8	685.4	613.7	474.6	335.6	240.5	199.8	184.4	182.4	180.4
17.5°	753.5	743.1	706.7	575.3	383.9	238.5	185.7	174.1	167.5	165.4	164.4
20°	785.8	772.4	719.4	517.3	286.8	185.7	166.5	158.8	152.7	150.5	149.1
22.5°	818.2	799.2	719.4	438.3	215.1	164.7	152.7	145.8	138.8	135.7	134.1
25°	851.9	826.5	706.7	350.2	173.1	151.1	139.7	132.1	126.1	122.4	121.1
27.5°	884.6	849.5	677.7	266.8	154.1	139.1	127.7	120.4	114.7	112.0	112.0
30°	915.5	872.2	637.0	202.4	141.8	127.4	116.7	110.4	104.8	102.1	102.4
32.5°	957.6	900.9	593.7	166.2	131.1	116.4	106.7	100.8	95.7	93.7	93.7
35°	1016.0	943.2	556.4	163.1	122.1	107.4	97.7	92.0	87.0	85.4	85.4
37.5°	1098.7	1011.6	536.7	183.1	114.7	99.4	90.4	84.4	79.7	78.4	78.0
40°	1200.7	1104.3	547.3	203.2	109.8	92.4	83.7	77.7	73.7	72.1	71.8
42.5°	1321.8	1218.7	606.4	218.4	106.4	86.4	77.4	70.7	68.1	67.3	67.3
45°	1460.9	1344.5	696.8	234.8	101.1	80.7	71.0	66.0	64.1	63.8	63.3
47.5°	1619.0	1482.6	801.4	255.1	95.7	75.3	66.0	62.7	61.0	60.4	60.4
50°	1775.7	1621.7	909.2	266.5	91.4	70.4	62.0	59.3	58.0	57.7	57.7
52.5°	1939.8	1764.7	996.3	255.8	87.7	66.4	58.7	56.7	55.4	55.0	55.0
55°	2096.3	1880.5	1011.3	217.1	80.4	62.4	55.0	54.0	52.4	52.4	52.1
57.5°	2231.0	1938.5	905.2	159.4	73.1	56.4	51.4	50.3	49.0	48.7	48.4
60°	2354.7	1921.9	698.7	107.4	65.1	50.3	46.7	46.0	44.7	43.0	42.7
62.5°	2424.4	1848.5	478.0	70.0	57.0	44.1	41.3	41.0	38.0	34.6	34.0
65°	2450.9	1697.7	298.2	51.0	47.7	37.7	35.7	35.1	30.6	27.1	26.6
67.5°	2427.8	1449.6	150.5	40.4	37.7	31.4	29.3	29.3	26.3	23.1	22.7
70°	2335.8	1086.7	63.3	32.4	29.0	24.0	24.0	25.3	22.3	18.7	18.3
72.5°	2136.0	731.1	33.7	24.7	21.7	17.0	19.7	20.7	17.6	14.0	14.0
75°	1698.0	446.0	23.4	18.3	13.6	12.0	15.0	15.7	12.0	9.3	9.0
77.5°	1161.4	256.1	15.7	11.7	8.7	7.0	10.4	9.6	6.4	4.3	4.7
80°	509.9	106.7	9.0	5.3	3.4	2.7	3.7	2.7	2.0	1.3	1.3
82.5°	59.7	25.0	3.4	2.0	1.3	0.7	0.3	0.0	0.0	0.0	0.0
85°	12.3	3.0	1.6	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.7	0.3	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)