

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: P960251

Luminaire Tested: **NAV-SB1C-722-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-722-U-SL4-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4428 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

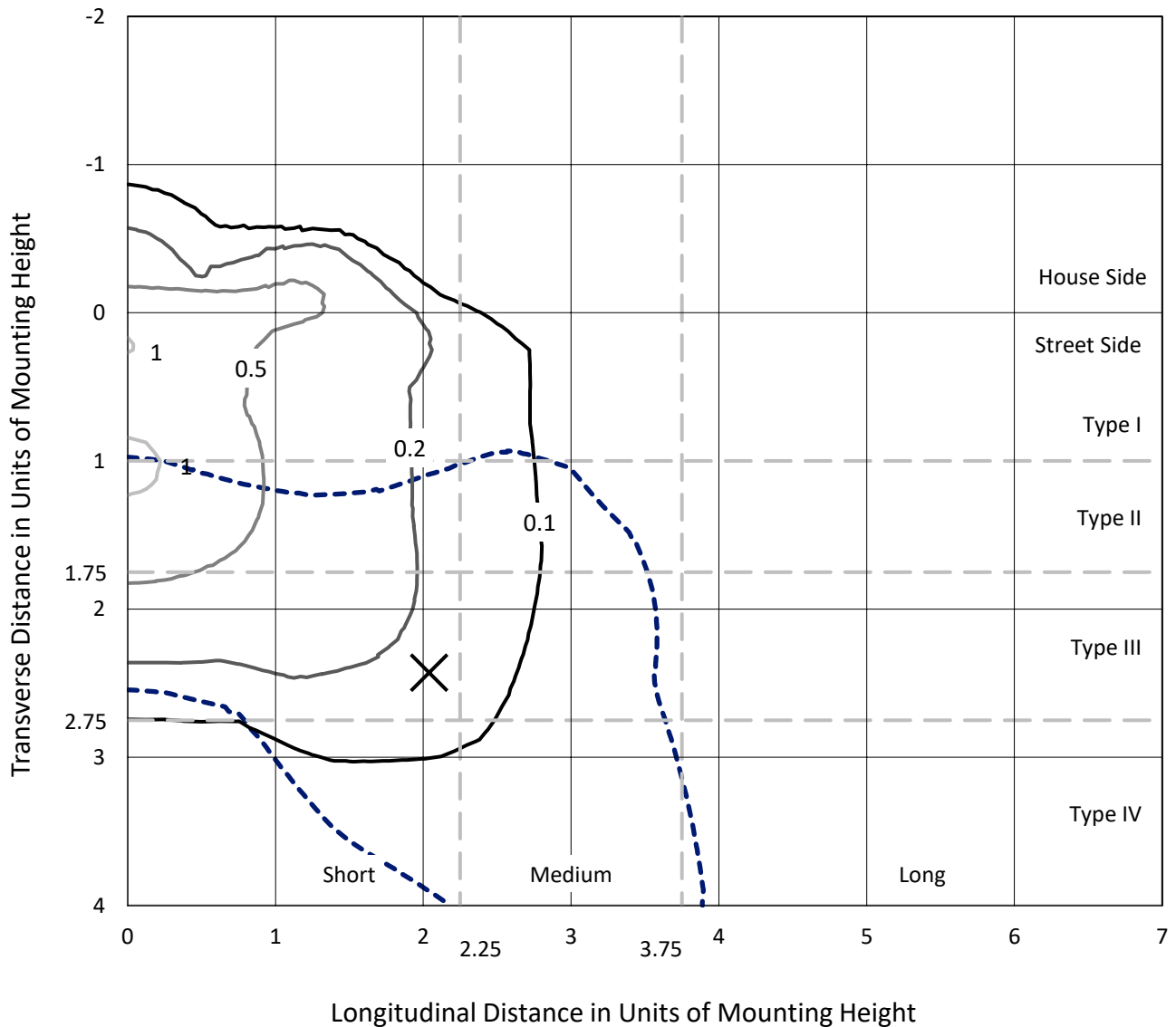
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

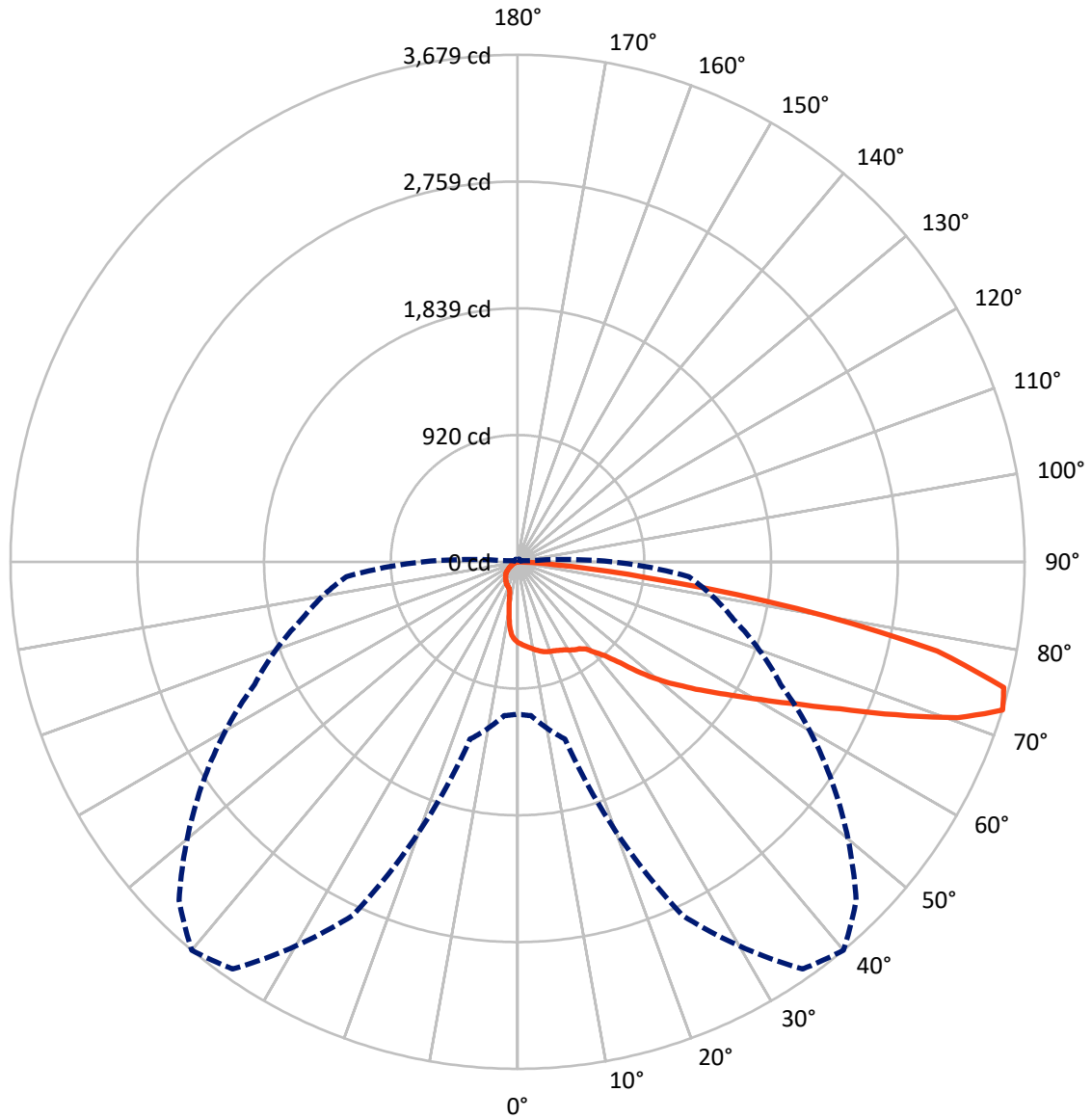
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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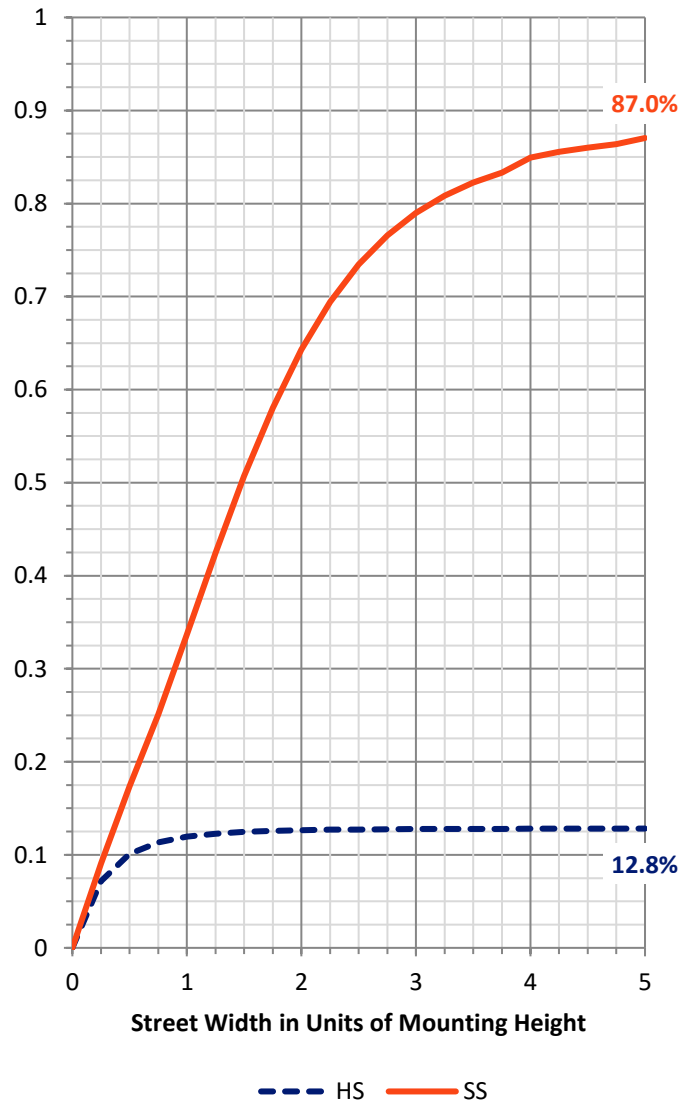
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	571.8	0.0	571.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	3856.2	0.0	3856.2
	% Fixture	87.1	0.0	87.1
Total	Lumens	4428.0	0.0	4428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	1.2
10°-20°	145.4	3.3
20°-30°	235.3	5.3
30°-40°	347.4	7.8
40°-50°	584.6	13.2
50°-60°	907.8	20.5
60°-70°	1135.9	25.7
70°-80°	929.9	21.0
80°-90°	88.2	2.0
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°	4428.0	100.0
0°-180°	4428.0	100.0

Coefficient of Utilization

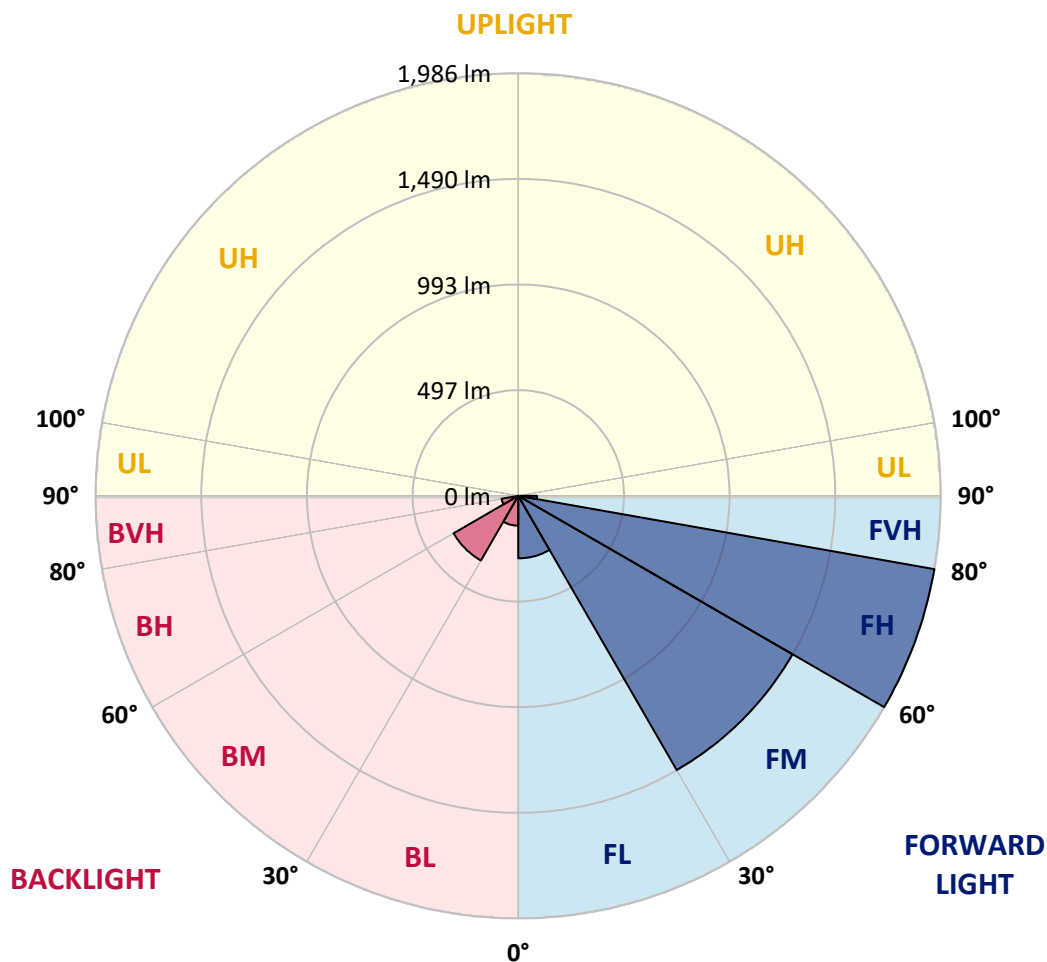


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	293.9	6.6			
FM (30°-60°)	1488.6	33.6			
FH (60°-80°)	1986.1	44.9			G2/5000
FVH (80°-90°)	87.5	2.0			G1/100
BL (0°-30°)	140.4	3.2	B1/500		
BM (30°-60°)	351.1	7.9	B1/1000		
BH (60°-80°)	79.7	1.8	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3
2.5°	603.9	606.3	605.0	602.3	601.7	600.3	598.6	598.0	595.6	593.7	591.3
5°	620.9	623.3	621.7	618.0	616.3	614.7	612.3	610.3	605.7	601.3	595.9
7.5°	639.7	641.6	639.7	634.4	631.7	629.7	626.3	623.3	618.0	611.6	605.0
10°	660.3	662.0	659.0	652.0	647.7	644.6	641.6	638.4	633.3	626.3	618.3
12.5°	679.7	681.7	677.0	668.7	663.7	660.7	657.3	654.7	649.6	643.0	634.7
15°	697.4	700.4	692.4	683.4	677.7	675.4	672.0	670.3	667.0	662.4	654.7
17.5°	710.7	712.7	704.4	693.7	687.4	685.7	683.4	684.4	683.7	681.3	676.4
20°	722.0	723.3	712.4	699.4	692.4	692.7	692.0	695.4	696.7	696.7	696.4
22.5°	736.1	736.4	722.4	706.0	697.7	700.1	701.0	704.7	707.4	710.0	716.1
25°	754.4	753.7	737.1	714.7	707.4	710.7	713.0	714.3	717.4	721.7	735.3
27.5°	781.8	779.7	758.4	728.7	720.1	723.0	727.3	726.7	725.4	728.7	751.7
30°	816.4	813.7	785.4	748.4	740.4	743.0	744.4	738.4	728.7	731.7	766.1
32.5°	871.5	866.7	827.4	770.4	758.1	761.1	759.4	747.0	732.7	735.7	780.4
35°	967.2	955.8	900.2	816.4	778.1	774.7	770.7	758.7	741.1	738.0	792.4
37.5°	1170.7	1150.6	1055.5	906.1	823.4	801.8	789.5	777.4	750.1	738.0	806.1
40°	1400.0	1379.8	1270.0	1056.3	898.8	862.1	832.8	799.4	759.4	742.4	827.4
42.5°	1639.5	1617.1	1504.5	1242.3	1006.6	931.1	876.5	817.1	774.7	755.7	855.8
45°	1907.0	1878.9	1731.5	1436.4	1163.0	1045.9	946.8	853.4	801.4	779.4	894.4
47.5°	2189.1	2152.8	1958.1	1624.8	1331.4	1204.6	1075.5	918.5	840.8	814.8	946.8
50°	2439.3	2403.2	2191.8	1821.9	1488.8	1355.7	1222.3	1008.5	899.8	864.8	1017.2
52.5°	2619.0	2591.7	2404.5	2025.4	1652.5	1497.4	1355.4	1113.3	974.5	928.9	1100.2
55°	2739.4	2714.4	2555.3	2218.1	1843.0	1653.5	1486.5	1226.9	1064.6	1005.5	1192.0
57.5°	2812.5	2798.1	2664.4	2390.2	2031.8	1824.3	1636.5	1352.1	1170.7	1095.9	1294.4
60°	2838.4	2826.7	2732.0	2554.3	2259.8	2029.4	1812.9	1493.1	1299.3	1198.6	1399.4
62.5°	2769.1	2771.4	2780.7	2748.7	2500.3	2269.6	2024.4	1662.6	1442.1	1315.0	1498.1
65°	2442.6	2461.9	2639.4	2964.2	2818.7	2570.3	2293.5	1869.3	1605.5	1447.4	1576.4
67.5°	2022.4	2050.4	2271.2	3090.3	3158.3	2960.8	2668.4	2132.8	1800.3	1582.2	1606.2
70°	1548.2	1578.2	1845.6	3063.9	3476.1	3387.7	3132.0	2467.9	2002.0	1675.6	1530.4
72.5°	1104.9	1120.2	1331.1	2829.5	3606.6	3678.5	3473.4	2785.4	2105.0	1623.8	1248.3
75°	776.4	773.8	913.5	2278.5	3403.4	3643.3	3353.7	2613.6	1905.0	1290.0	769.8
77.5°	338.1	338.9	456.2	1383.7	2716.5	3111.6	2787.8	1637.1	1328.0	683.7	324.8
80°	87.7	90.4	167.4	550.9	1635.5	2053.7	1700.2	719.8	613.7	166.8	62.0
82.5°	31.1	33.0	77.1	173.1	603.3	941.8	757.1	230.1	160.1	47.7	16.7
85°	9.0	10.7	41.3	53.0	124.7	266.1	183.8	44.7	39.4	24.7	4.3
87.5°	0.0	1.3	8.3	7.4	7.4	5.0	9.3	5.0	6.4	3.0	1.3
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°	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3
2.5°	589.3	587.0	582.0	576.7	571.6	566.9	565.6	560.6	558.3	558.6	558.3
5°	592.3	587.9	578.3	566.6	554.6	541.0	529.6	513.6	499.9	498.3	497.2
7.5°	600.3	593.3	577.6	554.9	524.9	487.3	452.2	417.6	397.9	387.2	386.5
10°	612.6	603.3	579.3	536.0	472.2	404.9	351.9	308.1	285.8	275.5	273.5
12.5°	627.3	616.9	582.0	503.6	404.3	315.8	258.5	231.8	227.1	226.4	226.1
15°	648.0	636.6	585.0	459.9	330.5	240.5	214.1	214.4	218.1	220.1	219.8
17.5°	671.0	659.7	580.7	406.5	257.8	205.4	204.8	207.8	213.1	215.1	214.7
20°	694.3	683.7	565.3	343.9	208.5	195.8	198.4	201.7	207.2	209.8	209.8
22.5°	718.4	709.0	541.0	277.2	188.1	188.8	192.1	195.5	201.4	204.5	204.5
25°	744.0	736.1	508.6	222.1	179.4	181.4	185.7	189.7	196.1	199.8	199.8
27.5°	770.1	764.0	471.9	185.4	171.4	173.7	178.8	184.1	190.4	194.7	195.1
30°	798.4	795.1	442.6	171.8	163.8	165.7	171.4	177.4	184.4	189.7	190.4
32.5°	827.4	826.8	428.2	181.7	156.7	158.1	163.1	169.1	177.7	184.4	185.1
35°	856.1	857.4	419.8	210.1	154.4	150.8	154.1	159.4	169.7	178.0	179.4
37.5°	892.8	896.2	419.5	240.8	160.1	143.4	145.8	149.4	158.5	168.1	169.7
40°	947.5	965.1	440.9	267.1	170.0	136.7	137.5	138.1	142.8	150.8	153.4
42.5°	1020.2	1071.8	517.9	285.2	174.0	130.7	128.4	124.7	124.0	128.4	130.7
45°	1110.6	1201.0	653.3	295.2	170.0	124.0	117.8	108.0	104.3	107.4	107.4
47.5°	1217.0	1342.3	813.7	297.5	163.4	115.7	104.3	91.7	88.7	89.7	89.4
50°	1320.7	1448.4	954.8	278.2	152.4	105.1	89.7	79.0	77.1	77.4	77.4
52.5°	1412.3	1484.8	994.9	232.5	137.8	92.0	77.1	69.7	68.4	68.4	68.1
55°	1473.1	1445.5	887.1	177.7	119.4	78.7	66.0	62.3	61.7	61.4	60.7
57.5°	1485.7	1317.3	670.0	128.4	93.4	66.3	58.7	56.7	55.4	54.0	53.4
60°	1440.4	1103.9	426.6	89.7	70.0	56.7	52.1	50.7	48.1	45.4	44.4
62.5°	1342.3	833.7	236.2	62.3	56.4	48.4	46.0	44.4	39.4	35.1	33.7
65°	1210.6	554.3	104.3	48.7	46.0	40.7	39.4	37.0	31.1	26.0	25.0
67.5°	1078.2	319.2	47.0	39.1	37.0	33.3	32.4	30.6	26.3	21.6	21.0
70°	927.1	161.7	32.4	31.1	28.7	25.3	26.3	26.0	21.6	17.6	17.0
72.5°	690.3	80.4	24.4	23.4	20.7	18.0	21.6	21.3	17.0	13.3	12.7
75°	390.8	39.7	17.6	16.3	12.3	13.3	17.3	16.3	11.7	8.7	8.0
77.5°	155.1	20.3	11.7	10.0	7.4	9.0	12.7	11.0	6.0	3.7	3.4
80°	35.7	10.0	6.0	4.3	3.4	5.3	6.7	4.0	1.6	0.3	0.0
82.5°	10.0	4.3	2.0	1.6	1.6	2.0	1.6	0.7	0.0	0.0	0.0
85°	3.4	2.0	0.7	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	1.3	0.7	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)