

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: P959212

Luminaire Tested: **NAV-SB1A-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-722-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3900.1 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

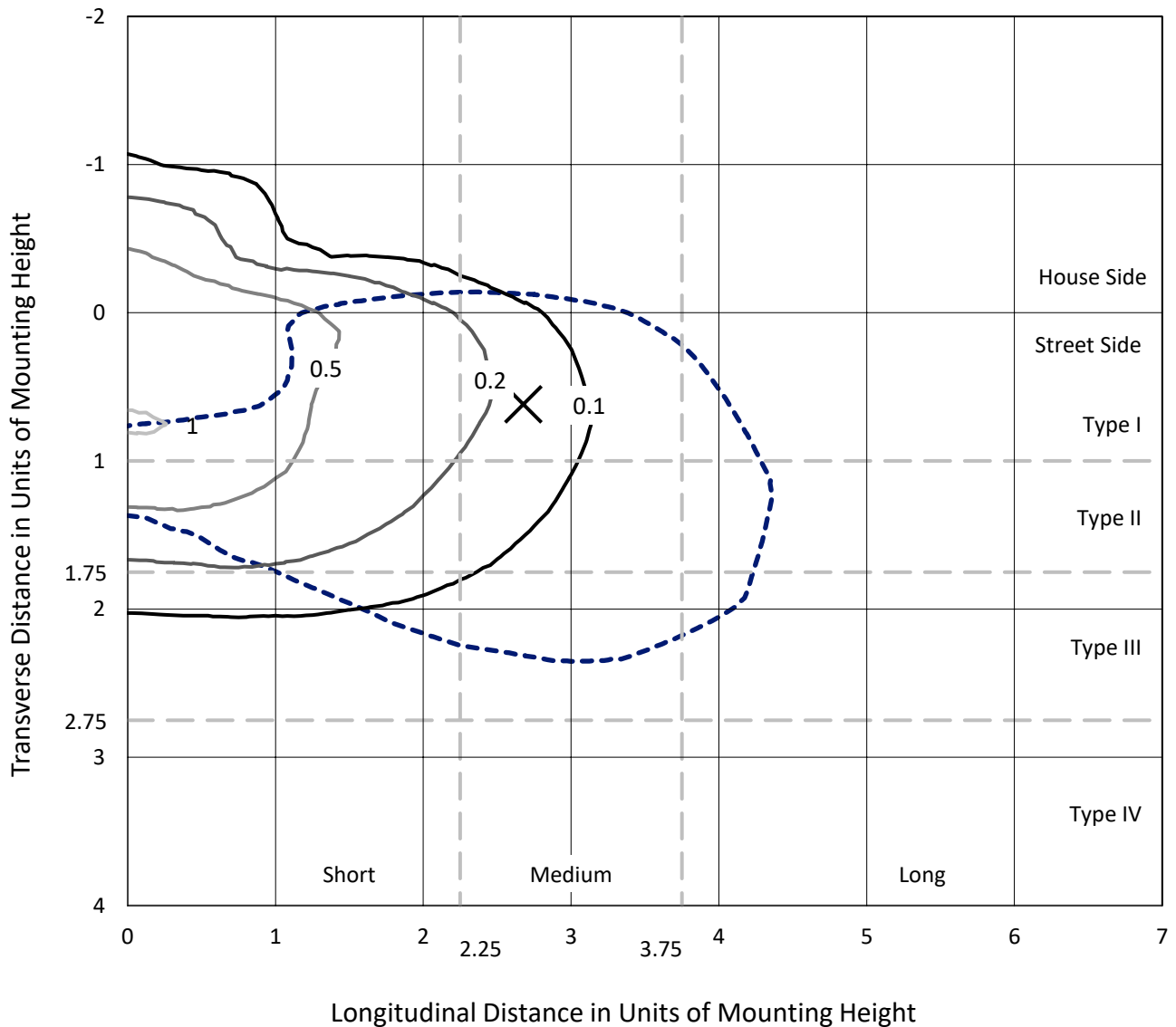
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

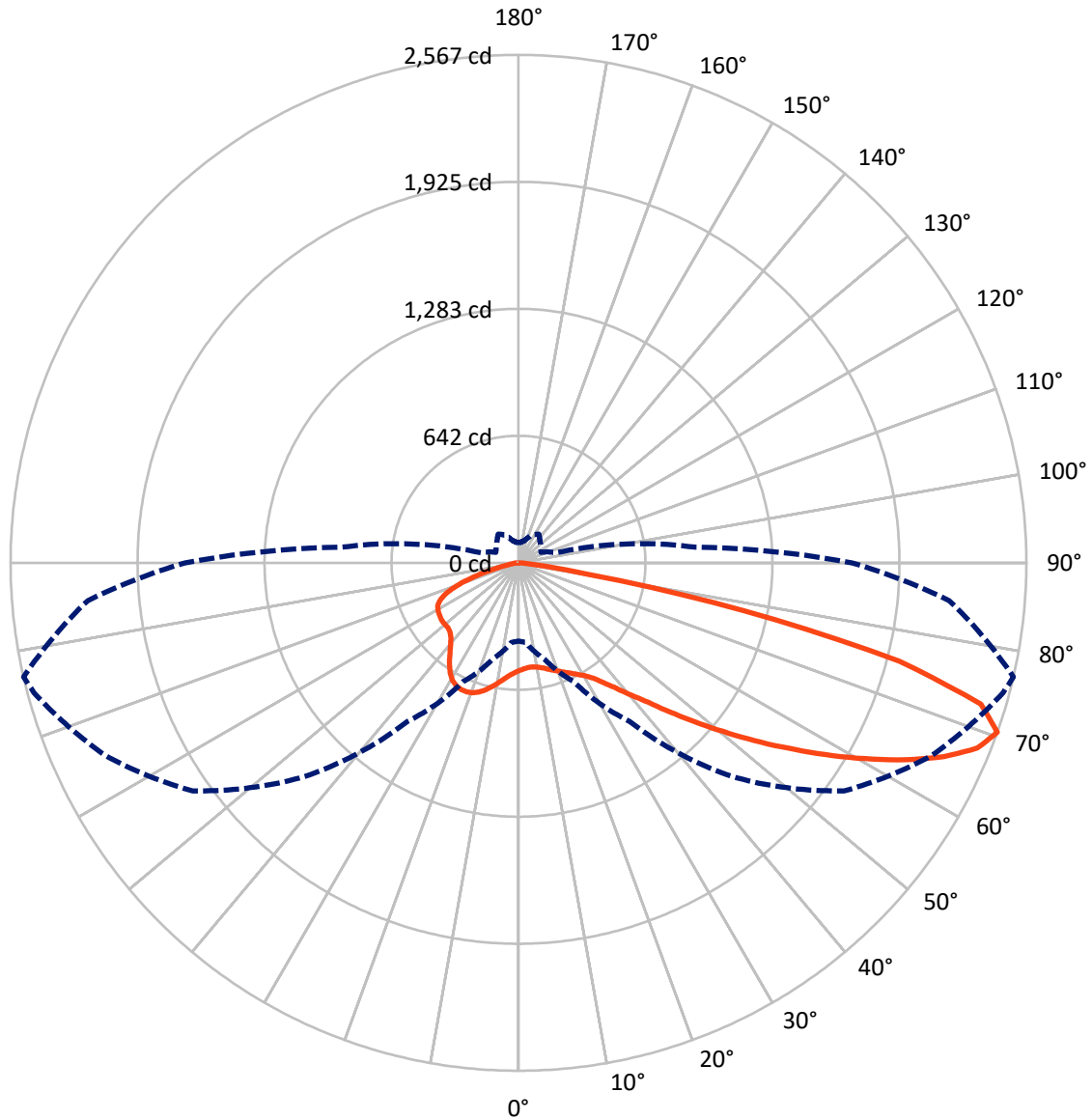
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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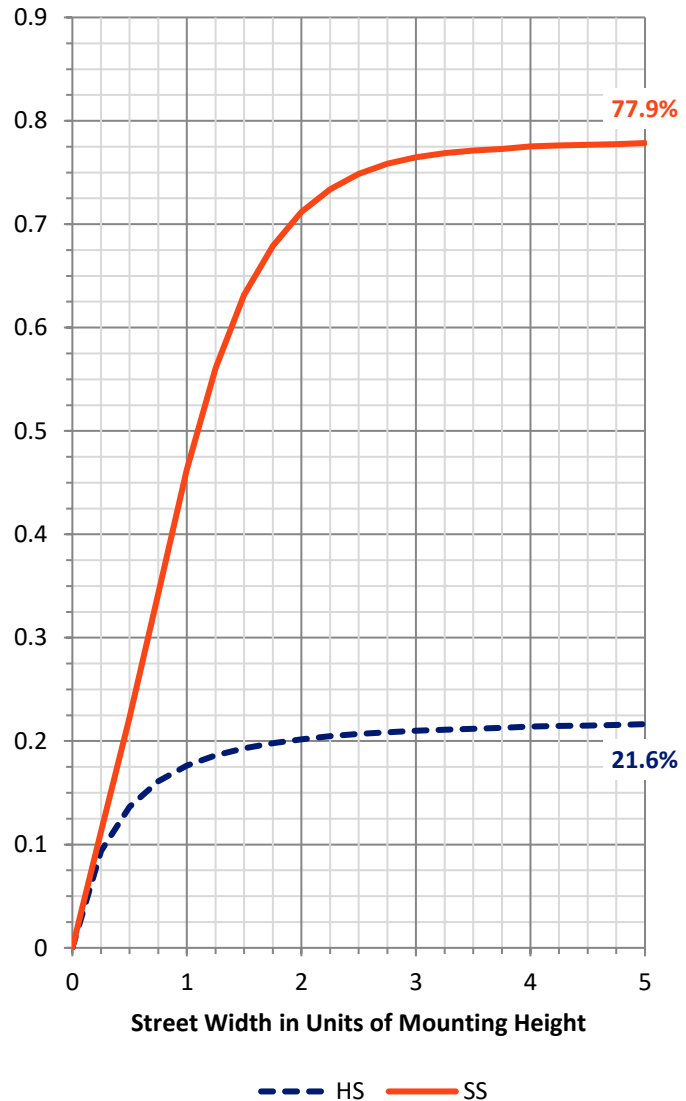
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	854.1	0.0	854.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3046.1	0.0	3046.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	3900.1	0.0	3900.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	1.3
10°-20°	149.8	3.8
20°-30°	256.1	6.6
30°-40°	411.9	10.6
40°-50°	643.0	16.5
50°-60°	859.0	22.0
60°-70°	915.5	23.5
70°-80°	563.6	14.5
80°-90°	49.4	1.3
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°	3900.1	100.0
0°-180°	3900.1	100.0

Coefficient of Utilization

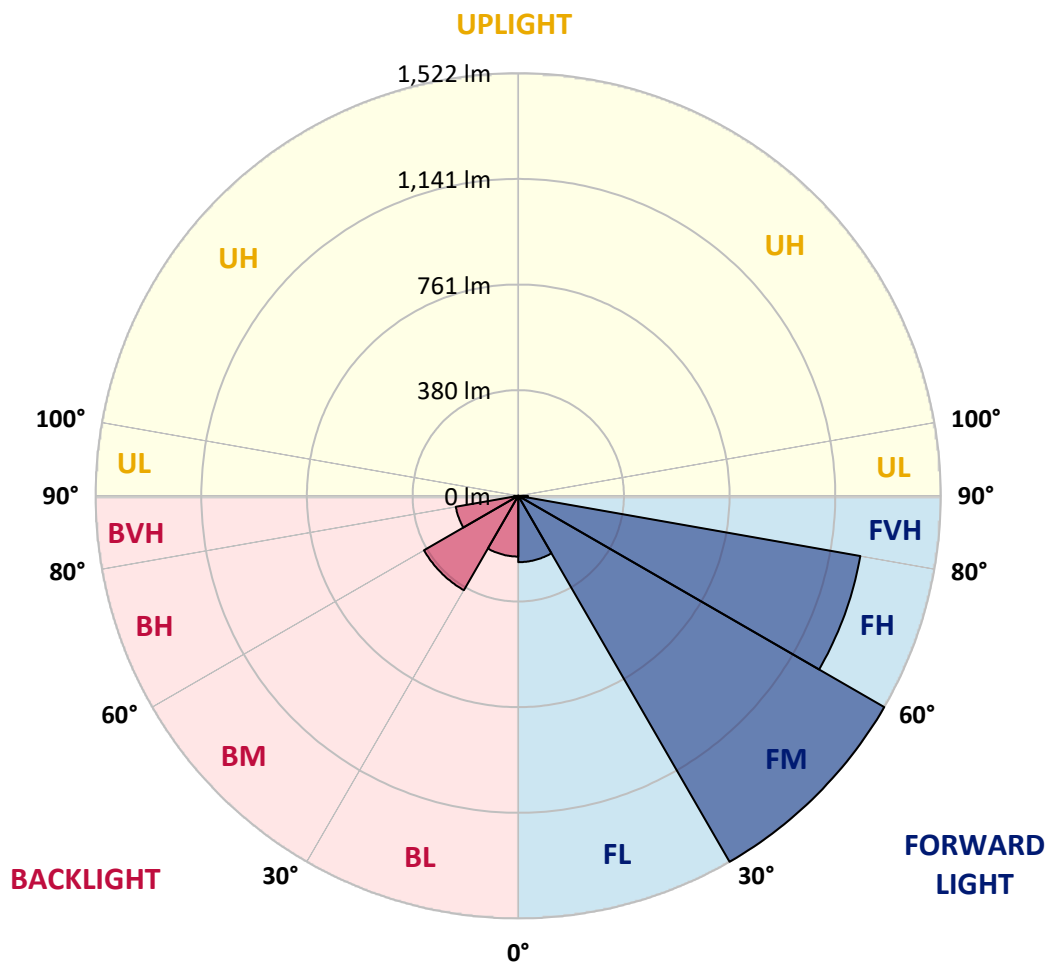


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	238.9	6.1			
FM (30°-60°)	1521.7	39.0			
FH (60°-80°)	1250.8	32.1			G1/1800
FVH (80°-90°)	34.5	0.9			G1/100
BL (0°-30°)	218.8	5.6	B1/500		
BM (30°-60°)	392.1	10.1	B1/1000		
BH (60°-80°)	228.3	5.9	B1/500		G1/500
BVH (80°-90°)	14.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	544.1	544.1	544.1	544.1	544.1	544.1	544.1	544.1	544.1	544.1	544.1
2.5°	501.5	501.3	504.0	504.7	509.5	512.9	519.4	526.1	534.9	535.9	541.3
5°	472.6	472.6	475.6	478.8	485.0	491.8	501.5	513.3	528.5	530.9	544.3
7.5°	448.0	449.7	452.2	458.4	465.6	475.4	490.4	507.2	527.2	530.9	552.5
10°	428.2	430.1	433.3	438.2	449.1	462.6	482.2	503.8	530.5	536.5	564.5
12.5°	422.1	423.8	425.7	429.5	439.4	455.4	478.8	505.3	538.7	544.7	580.9
15°	436.4	438.6	437.3	436.2	441.5	456.0	480.4	511.2	548.9	557.5	601.1
17.5°	469.6	470.4	467.2	457.8	457.0	464.8	488.0	519.2	561.7	571.0	621.4
20°	523.2	521.7	515.2	496.6	486.0	484.4	500.9	531.2	574.8	584.9	643.4
22.5°	595.8	594.2	581.1	551.7	528.1	512.5	519.8	546.7	589.7	600.9	664.7
25°	686.5	684.3	664.9	625.0	588.5	549.9	545.3	567.2	607.8	618.2	687.2
27.5°	792.4	790.6	769.6	716.9	664.2	601.1	577.1	591.4	626.8	638.6	712.3
30°	906.2	911.4	874.3	817.5	750.8	667.8	619.8	621.3	651.4	661.9	742.8
32.5°	1040.1	1049.1	1004.3	932.4	841.3	740.3	673.7	662.8	687.2	695.9	781.4
35°	1172.7	1182.8	1145.7	1066.2	961.3	825.7	730.1	710.5	734.6	744.3	832.5
37.5°	1287.4	1300.9	1281.8	1212.7	1089.8	928.9	803.6	766.6	793.1	805.1	901.3
40°	1377.8	1398.6	1397.2	1354.0	1241.2	1053.8	896.9	835.9	865.9	878.8	984.5
42.5°	1451.3	1469.3	1484.9	1482.7	1399.2	1195.9	1006.6	926.0	948.7	963.8	1078.2
45°	1502.0	1521.2	1554.8	1591.0	1551.2	1347.9	1132.1	1032.9	1053.7	1076.2	1189.9
47.5°	1547.4	1569.2	1612.7	1670.0	1680.3	1500.5	1269.8	1157.3	1176.3	1199.7	1302.0
50°	1551.4	1570.2	1637.7	1719.0	1771.9	1647.1	1417.6	1296.9	1314.7	1339.7	1422.0
52.5°	1455.0	1484.5	1602.4	1717.6	1814.0	1769.8	1564.4	1442.2	1462.2	1492.1	1546.2
55°	1129.3	1172.7	1498.7	1664.1	1799.1	1849.0	1704.1	1596.5	1622.2	1653.5	1671.3
57.5°	972.7	991.7	1189.7	1566.6	1730.8	1869.6	1821.8	1752.5	1793.7	1828.1	1803.5
60°	874.3	890.1	1007.1	1415.0	1640.9	1837.0	1913.0	1898.0	1969.1	2010.0	1938.7
62.5°	768.9	783.8	890.2	1181.5	1525.8	1782.9	1970.5	2032.2	2148.8	2193.6	2066.2
65°	664.2	676.9	779.0	992.7	1379.6	1728.8	2000.3	2148.3	2315.3	2361.6	2172.0
67.5°	547.5	558.1	654.6	837.5	1201.8	1654.7	2015.0	2239.5	2460.0	2499.8	2224.4
70°	395.1	403.2	503.0	662.4	978.8	1527.2	2009.0	2304.2	2535.1	2566.9	2184.8
72.5°	186.8	194.1	311.2	430.1	691.4	1279.2	1887.7	2253.0	2458.9	2443.1	1942.7
75°	99.6	106.1	178.8	235.9	365.1	876.9	1544.8	1940.7	2064.8	1988.1	1435.7
77.5°	67.5	72.5	110.7	141.7	166.8	416.3	992.9	1343.7	1292.7	1166.1	719.0
80°	53.5	58.7	90.7	95.8	80.7	150.4	410.3	622.0	446.8	357.3	204.5
82.5°	41.1	46.9	76.3	69.5	44.0	61.7	119.4	196.7	114.5	87.1	49.5
85°	25.2	31.4	60.0	44.4	24.8	28.2	40.6	54.7	35.0	29.2	17.7
87.5°	12.8	17.9	30.3	16.2	11.2	6.6	10.8	10.8	9.2	8.0	4.6
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°	544.1	544.1	544.1	544.1	544.1	544.1	544.1	544.1	544.1	544.1	544.1
2.5°	546.1	550.1	556.9	563.2	568.3	573.1	577.9	580.5	581.3	584.5	586.3
5°	552.5	559.9	573.1	585.5	593.3	598.0	601.5	603.4	603.8	604.9	606.4
7.5°	564.3	576.0	594.4	606.8	612.6	612.2	610.8	605.8	603.8	602.0	602.4
10°	580.9	596.4	619.0	627.6	624.0	614.4	602.0	587.4	580.7	574.1	572.1
12.5°	601.5	621.3	643.4	643.0	625.2	600.6	571.8	549.5	535.4	525.1	522.8
15°	626.4	649.1	666.1	652.5	613.6	569.5	527.4	498.2	485.3	474.2	473.0
17.5°	652.2	676.5	684.3	649.5	584.5	523.4	475.6	452.6	440.0	434.1	435.8
20°	677.3	701.5	695.2	632.4	540.1	471.0	428.4	415.8	413.3	414.7	414.1
22.5°	703.9	725.5	697.3	599.2	483.6	417.5	394.1	394.5	400.3	404.5	405.5
25°	731.0	745.7	691.5	551.2	422.8	378.1	372.3	378.7	390.1	398.3	400.5
27.5°	757.3	763.6	679.0	492.0	370.7	349.9	351.0	364.2	381.3	392.7	395.4
30°	786.8	779.6	654.8	425.3	334.6	325.7	334.2	349.5	366.7	376.9	379.4
32.5°	820.1	793.3	616.4	363.6	309.0	306.4	320.2	330.2	337.7	340.8	342.3
35°	861.7	812.7	567.2	320.2	286.1	292.2	305.4	300.4	297.5	295.8	297.5
37.5°	915.6	839.0	509.7	292.0	267.4	282.1	287.4	271.8	260.0	254.3	255.6
40°	980.5	877.3	454.4	270.3	255.6	273.3	263.8	245.1	230.1	221.9	222.5
42.5°	1052.7	917.4	407.8	253.9	249.1	266.1	246.5	224.1	200.0	197.3	200.0
45°	1128.3	958.8	376.1	241.3	245.9	259.8	236.5	200.4	183.2	193.7	199.4
47.5°	1204.1	996.7	356.9	231.9	244.3	252.9	227.8	187.2	175.0	190.3	197.5
50°	1288.3	1030.6	348.4	225.1	242.5	250.1	214.5	183.8	166.4	176.6	184.2
52.5°	1372.1	1057.1	341.9	218.3	239.8	247.8	208.2	179.8	156.0	156.6	160.8
55°	1455.5	1074.2	335.0	209.3	234.1	243.1	207.6	175.4	148.2	145.4	147.4
57.5°	1544.6	1084.0	326.4	199.4	224.1	230.9	206.9	172.0	145.9	141.2	141.9
60°	1635.3	1098.4	315.2	187.2	210.7	216.3	205.5	170.8	144.4	136.6	137.2
62.5°	1716.6	1103.4	301.9	175.6	193.5	201.9	202.5	169.7	140.6	127.2	127.2
65°	1770.0	1081.8	278.5	162.4	175.0	187.2	196.7	166.4	133.9	120.4	120.4
67.5°	1767.7	1020.3	241.9	145.4	157.0	170.8	188.4	160.6	125.7	112.0	112.6
70°	1685.4	898.8	195.6	125.7	137.2	153.2	177.5	152.0	115.8	102.9	104.0
72.5°	1445.6	703.5	142.1	102.5	114.3	135.0	163.6	141.7	105.9	94.7	94.1
75°	1032.7	445.3	96.2	78.7	88.9	114.5	146.2	129.5	96.7	95.1	89.7
77.5°	527.6	212.7	63.8	57.5	61.9	90.3	122.8	115.6	98.1	78.5	69.9
80°	171.6	78.5	40.2	39.2	41.1	60.2	95.1	94.9	74.3	53.3	47.2
82.5°	54.7	33.7	26.1	25.2	24.2	37.7	66.3	75.1	50.1	33.7	33.5
85°	21.7	20.2	15.4	14.1	10.1	17.7	34.7	49.9	37.3	24.4	25.0
87.5°	8.0	8.0	4.2	3.0	2.2	5.9	9.4	15.0	21.4	12.6	12.4
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)