

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: P959257

Luminaire Tested: **NAV-SB1A-730-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-730-U-SL3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3704.4 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

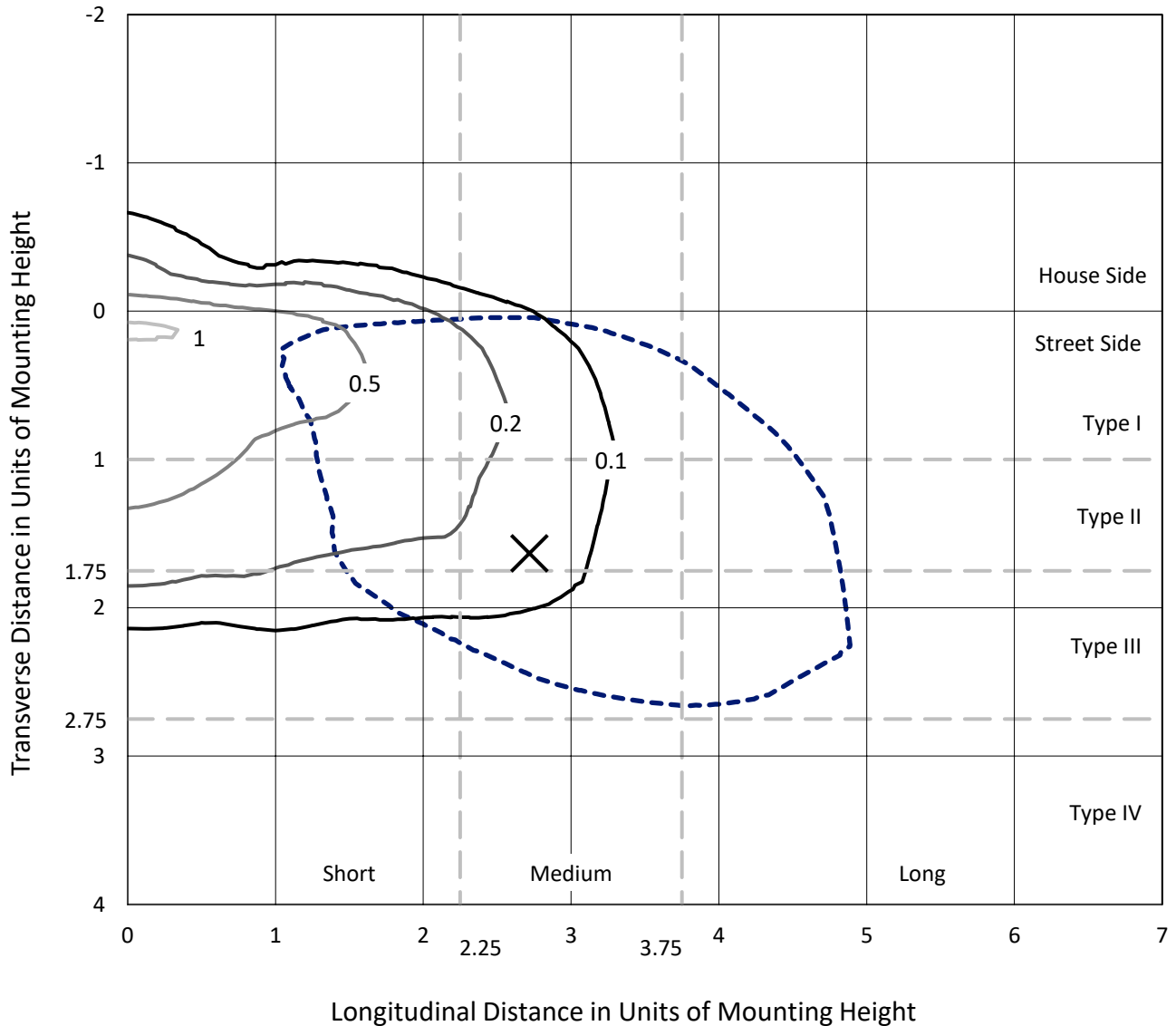
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

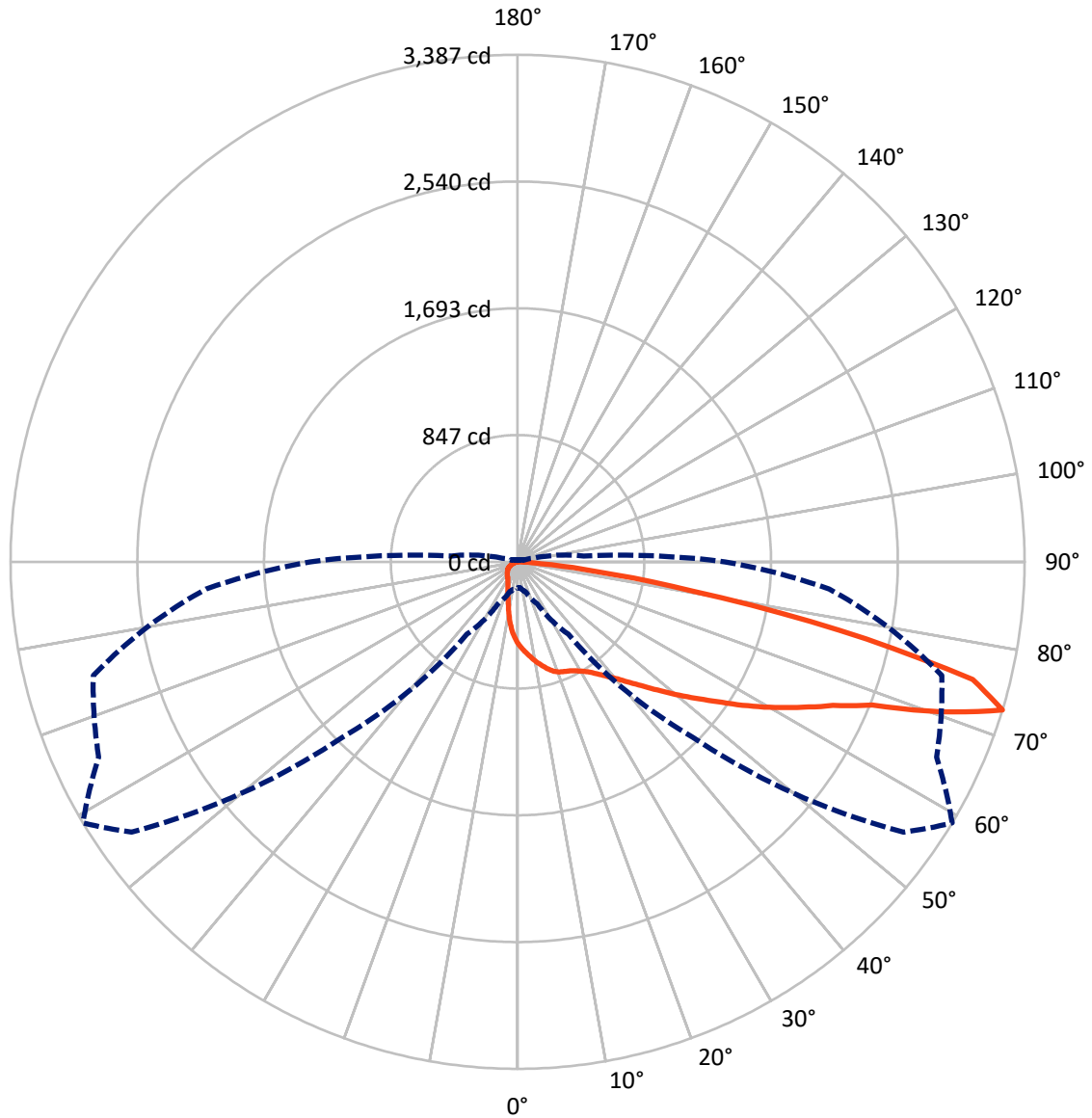
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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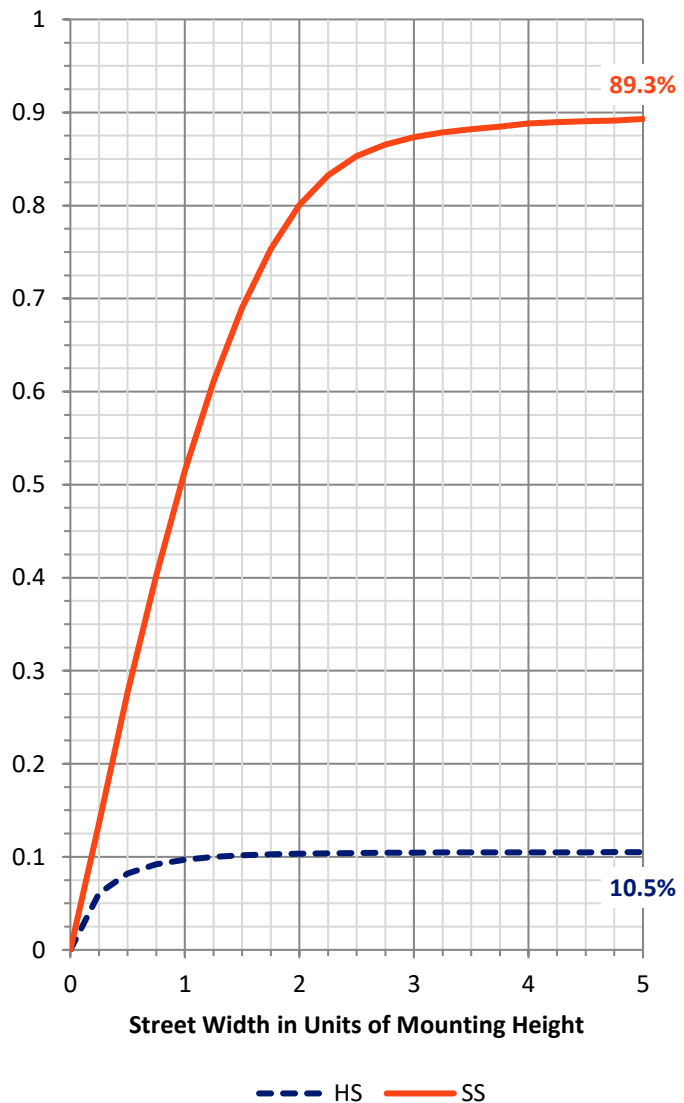
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	391.3	0.0	391.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3313.1	0.0	3313.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	3704.4	0.0	3704.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	1.3
10°-20°	131.6	3.6
20°-30°	208.6	5.6
30°-40°	334.8	9.0
40°-50°	534.8	14.4
50°-60°	774.3	20.9
60°-70°	918.8	24.8
70°-80°	682.1	18.4
80°-90°	69.7	1.9
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°	3704.4	100.0
0°-180°	3704.4	100.0

Coefficient of Utilization



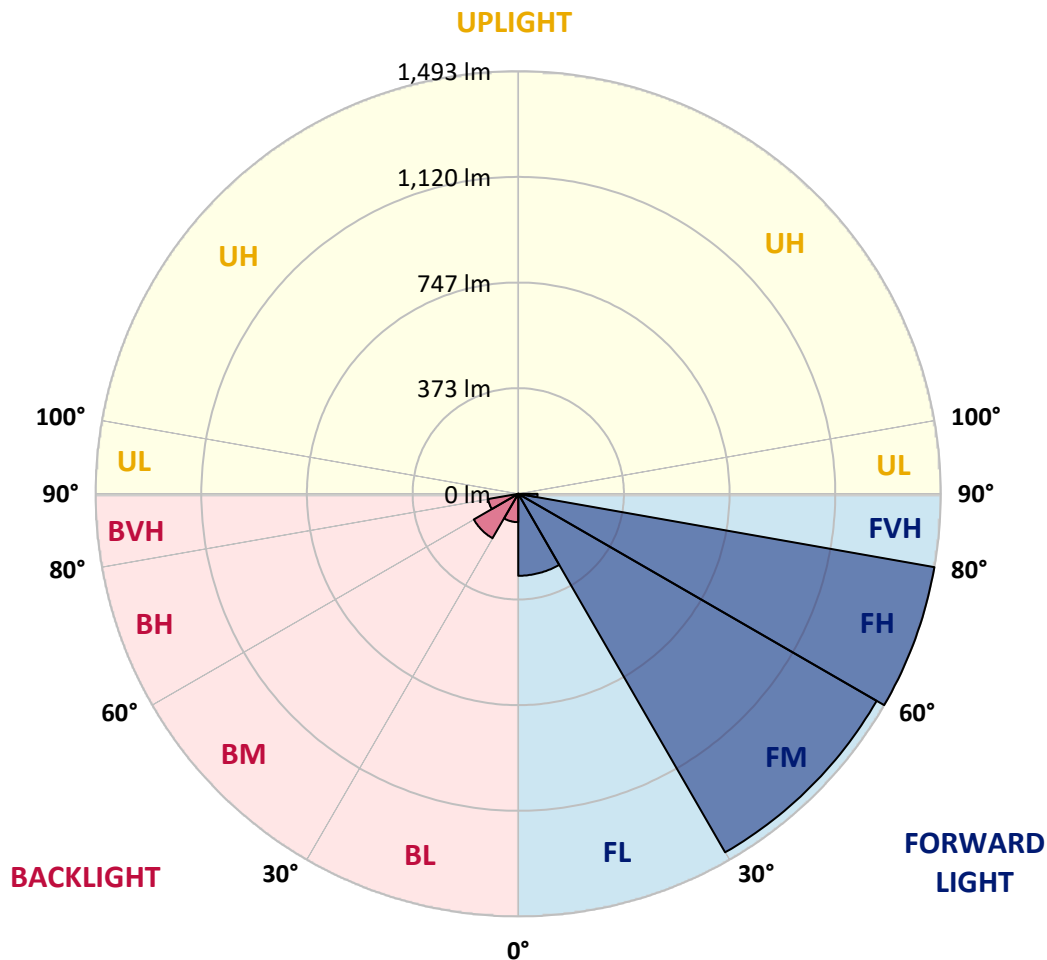
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	289.6	7.8			
FM	(30°-60°)	1462.4	39.5			
FH	(60°-80°)	1493.1	40.3			G1/1800
FVH	(80°-90°)	68.0	1.8			G1/100
BL	(0°-30°)	100.2	2.7	B0/110		
BM	(30°-60°)	181.4	4.9	B0/220		
BH	(60°-80°)	107.9	2.9	B0/110		G0/110
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8
2.5°	607.7	604.3	604.9	599.0	594.9	590.6	582.1	580.9	574.9	564.3	553.4
5°	660.7	658.6	656.6	650.1	641.6	631.0	616.7	611.6	600.5	582.1	560.9
7.5°	699.5	696.8	697.7	691.2	684.4	672.6	653.0	643.6	628.8	600.8	568.6
10°	706.9	705.5	711.8	714.2	714.2	706.6	687.6	678.1	656.6	620.8	576.6
12.5°	664.8	665.1	680.8	699.7	724.4	731.3	718.5	708.4	687.1	642.1	586.7
15°	615.7	616.0	631.2	655.4	695.8	736.2	746.3	739.8	717.8	665.1	598.6
17.5°	586.2	585.1	595.2	615.0	657.3	714.2	763.3	767.6	749.7	690.4	611.6
20°	582.1	579.9	585.3	595.2	625.5	686.6	765.2	785.8	782.6	719.2	626.6
22.5°	607.3	603.9	601.0	601.5	614.3	663.6	760.3	795.9	816.5	753.9	647.2
25°	657.1	651.8	642.4	630.3	627.6	658.8	757.0	807.1	847.9	798.1	674.2
27.5°	718.0	710.5	692.4	674.2	658.8	672.3	764.0	824.7	883.4	849.6	705.7
30°	785.0	775.8	757.7	723.3	698.7	702.5	780.6	847.9	929.0	907.9	745.2
32.5°	883.4	862.2	830.5	778.0	745.4	735.2	805.9	877.4	985.3	985.5	802.2
35°	967.9	956.0	924.1	858.8	791.8	778.5	839.0	919.0	1063.4	1088.3	882.0
37.5°	1023.3	1007.1	979.0	929.9	863.9	823.0	883.2	970.1	1146.2	1205.4	980.4
40°	1085.2	1069.2	1032.0	985.7	947.5	899.4	939.1	1028.8	1236.8	1325.5	1093.0
42.5°	1159.9	1139.1	1095.1	1045.3	1005.3	1000.0	1012.1	1102.1	1329.9	1456.1	1210.0
45°	1247.7	1228.1	1177.5	1114.7	1079.6	1070.2	1104.0	1187.5	1433.7	1599.3	1328.2
47.5°	1329.9	1307.2	1252.8	1195.5	1156.5	1126.8	1201.7	1288.3	1551.2	1749.1	1439.9
50°	1399.8	1376.6	1326.8	1265.6	1239.2	1200.3	1297.8	1400.8	1667.8	1901.2	1542.0
52.5°	1447.7	1427.1	1368.6	1327.1	1309.1	1289.6	1410.2	1520.0	1783.9	2040.5	1642.9
55°	1436.8	1418.4	1366.9	1364.1	1362.8	1383.3	1544.7	1655.2	1902.1	2172.3	1743.2
57.5°	1402.2	1381.4	1317.1	1361.4	1404.1	1467.1	1690.2	1815.1	2031.8	2296.6	1840.0
60°	1300.4	1293.1	1254.0	1356.3	1421.6	1549.1	1856.7	1975.7	2172.1	2405.9	1925.9
62.5°	1085.0	1091.2	1091.0	1366.9	1453.0	1642.4	2007.8	2138.1	2309.1	2511.1	2002.2
65°	812.4	834.1	861.9	1271.1	1495.1	1809.0	2188.5	2314.4	2448.4	2633.4	2079.9
67.5°	545.8	563.2	582.1	1042.8	1369.8	1984.1	2488.6	2556.0	2615.4	2769.1	2167.2
70°	312.4	318.1	344.4	651.3	1056.0	1935.7	2977.4	3001.8	2864.2	2936.3	2230.8
72.5°	175.1	173.1	208.0	309.0	590.1	1657.6	3148.6	3386.8	3087.0	2933.7	2088.8
75°	117.1	117.3	143.2	195.0	230.0	1160.4	2713.3	3140.4	2953.4	2601.3	1706.7
77.5°	79.8	82.5	105.2	150.7	106.4	566.2	1795.0	2199.9	2391.1	2008.8	1178.2
80°	34.5	34.8	69.4	108.1	71.9	180.2	930.6	1178.5	1499.7	1128.0	466.8
82.5°	17.9	20.3	44.3	69.9	45.2	63.1	439.7	514.9	629.2	331.1	95.7
85°	6.3	7.5	27.4	34.3	22.8	22.4	153.1	156.0	133.2	49.8	26.3
87.5°	0.0	1.2	10.7	8.5	2.9	2.7	18.1	15.3	12.1	7.0	8.7
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°	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8
2.5°	548.3	541.7	531.1	518.0	502.8	494.6	482.8	475.5	468.9	469.1	474.5
5°	549.0	538.1	511.1	482.3	450.3	426.9	400.8	382.3	368.4	364.9	370.0
7.5°	551.1	532.8	488.5	440.6	387.4	348.0	312.0	289.3	276.4	273.1	276.4
10°	554.1	527.0	463.1	389.8	323.8	276.4	246.4	232.0	226.1	221.8	224.5
12.5°	556.5	520.9	431.2	337.3	267.2	230.2	207.5	195.4	190.3	187.2	188.9
15°	560.6	512.9	396.7	288.5	229.0	198.8	177.3	168.3	166.9	167.4	168.1
17.5°	564.7	505.2	357.9	250.3	201.0	171.3	158.2	156.7	158.7	160.6	161.3
20°	569.3	494.0	318.8	221.5	175.1	152.1	148.7	149.8	150.7	154.1	155.0
22.5°	576.0	480.1	284.4	197.1	153.5	142.9	141.2	142.0	142.7	146.1	147.1
25°	585.8	465.0	256.6	174.7	140.0	135.4	133.8	133.8	134.7	137.9	139.1
27.5°	595.9	443.8	234.1	153.9	132.0	127.2	124.3	124.3	125.6	129.1	130.6
30°	607.3	424.5	216.5	138.4	125.3	119.0	115.1	114.2	115.6	120.2	121.4
32.5°	627.8	411.8	203.9	131.1	119.2	111.5	106.2	103.5	105.0	110.3	111.7
35°	659.1	409.0	195.2	127.4	113.5	104.8	97.3	93.1	94.3	99.8	101.6
37.5°	695.6	415.0	186.8	122.6	107.8	98.2	88.3	82.9	84.9	90.0	91.4
40°	748.0	440.1	180.2	119.0	102.3	90.4	79.3	74.0	77.2	81.5	82.2
42.5°	811.4	484.9	178.5	115.6	95.5	82.2	71.1	67.2	69.7	73.8	74.5
45°	890.0	542.0	186.2	111.2	88.0	74.2	64.6	62.4	63.1	67.2	69.2
47.5°	974.4	600.5	207.5	107.4	81.5	67.8	59.4	57.6	57.1	61.0	63.3
50°	1059.7	652.5	232.7	104.4	76.9	62.4	55.7	53.2	52.0	54.4	55.4
52.5°	1144.2	693.8	249.1	99.6	72.3	57.1	52.3	48.6	46.4	47.7	48.6
55°	1229.8	730.1	250.1	92.4	68.0	53.7	48.9	44.8	42.1	42.1	42.5
57.5°	1309.8	762.1	235.9	82.7	61.9	50.5	44.3	40.9	37.9	37.0	37.2
60°	1380.7	785.8	212.1	71.9	56.6	46.4	39.7	37.0	33.4	31.5	31.0
62.5°	1443.8	797.3	179.7	60.7	50.0	41.6	35.3	32.4	27.6	25.1	24.9
65°	1497.3	785.6	145.9	50.3	44.5	36.3	30.2	27.4	22.0	19.1	19.1
67.5°	1550.2	731.3	110.3	42.3	38.7	30.4	24.9	22.2	18.3	16.0	16.0
70°	1557.0	617.5	77.2	35.6	32.2	23.5	20.1	18.3	15.0	12.8	12.6
72.5°	1386.0	444.2	46.9	29.0	25.1	16.7	16.0	14.6	11.2	9.6	9.4
75°	1107.9	272.3	27.6	21.7	16.7	11.9	11.9	10.4	7.5	6.3	6.3
77.5°	765.7	142.5	16.2	14.0	9.9	7.0	7.8	6.3	3.6	2.9	2.9
80°	306.7	54.2	8.7	6.6	4.6	3.2	2.7	1.4	0.7	0.5	0.7
82.5°	61.2	14.2	2.9	1.7	1.7	0.7	0.0	0.0	0.0	0.0	0.0
85°	15.7	3.2	0.7	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	0.0	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)