

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: P960265

Luminaire Tested: **NAV-SB1C-722-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1C-722-U-T3R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5280.8 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

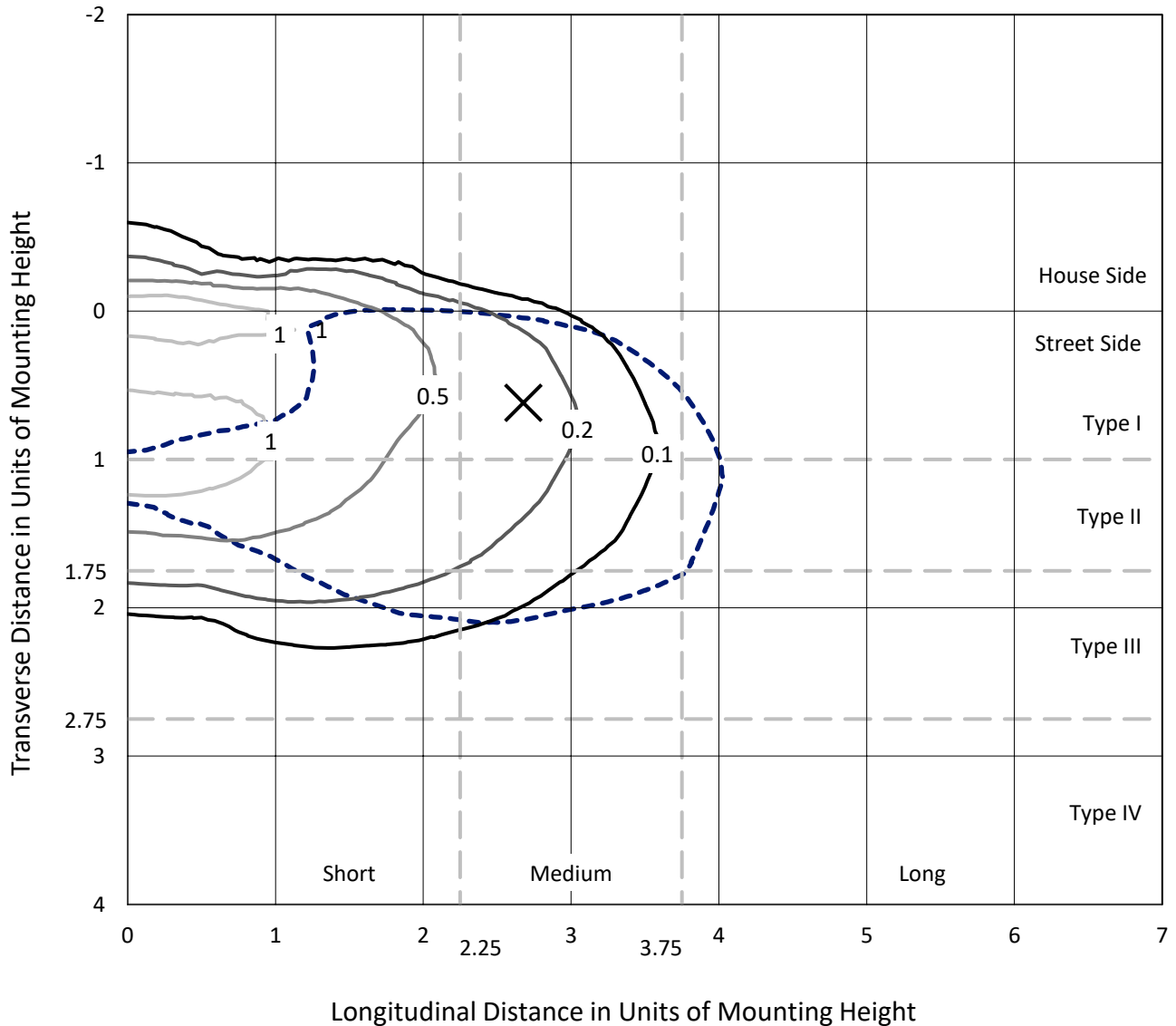
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

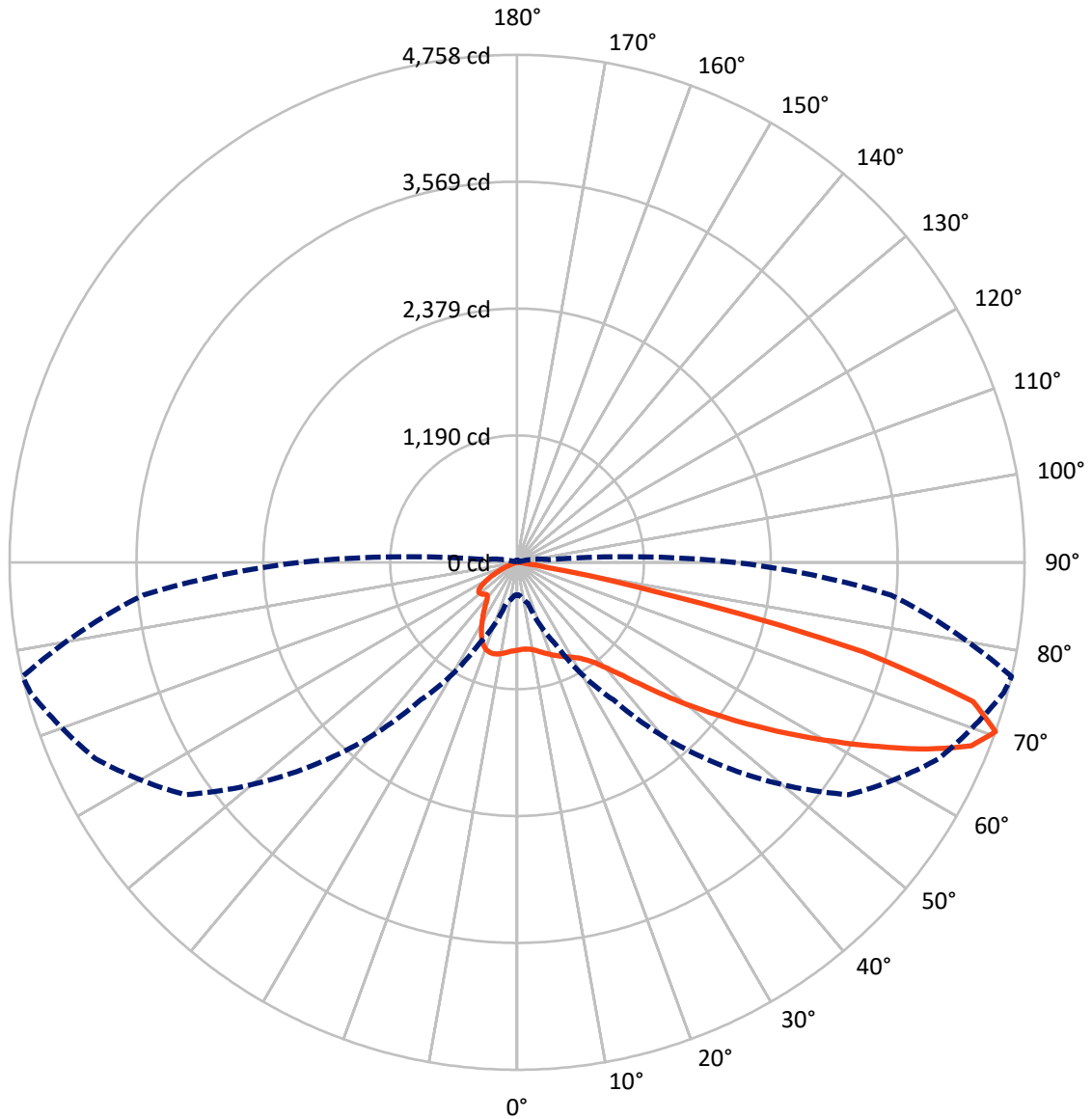
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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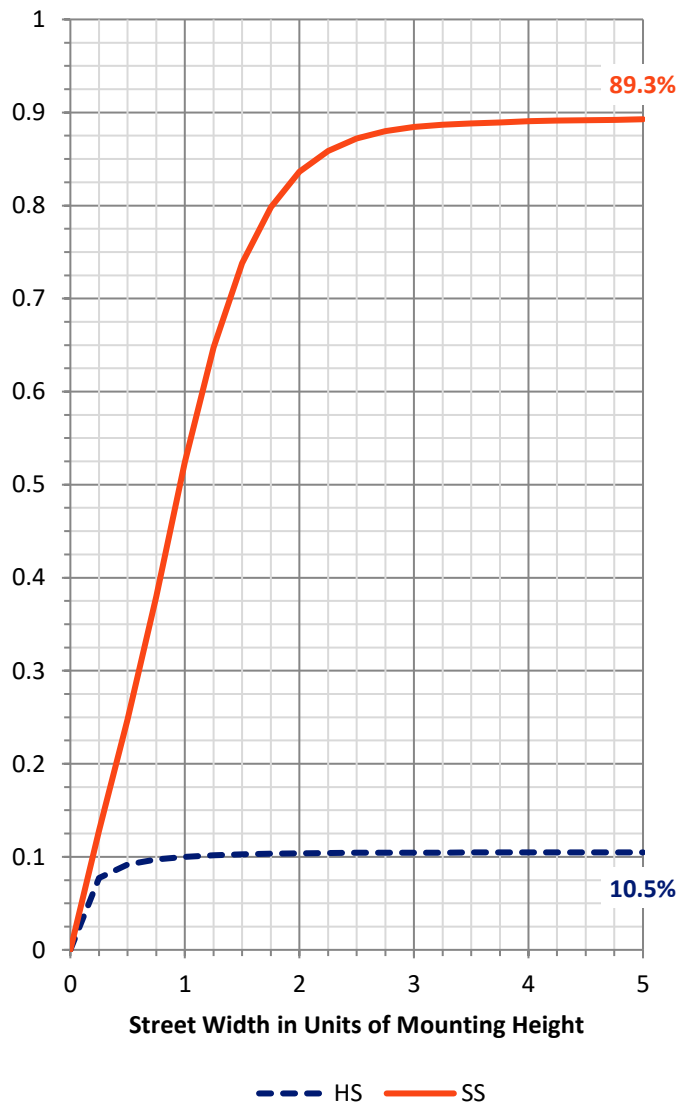
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	556.7	0.0	556.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	4724.1	0.0	4724.1
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	5280.8	0.0	5280.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.0	1.3
10°-20°	168.5	3.2
20°-30°	260.7	4.9
30°-40°	473.0	9.0
40°-50°	892.8	16.9
50°-60°	1290.0	24.4
60°-70°	1373.2	26.0
70°-80°	727.7	13.8
80°-90°	23.9	0.5
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°	5280.8	100.0
0°-180°	5280.8	100.0

**Coefficient of Utilization**

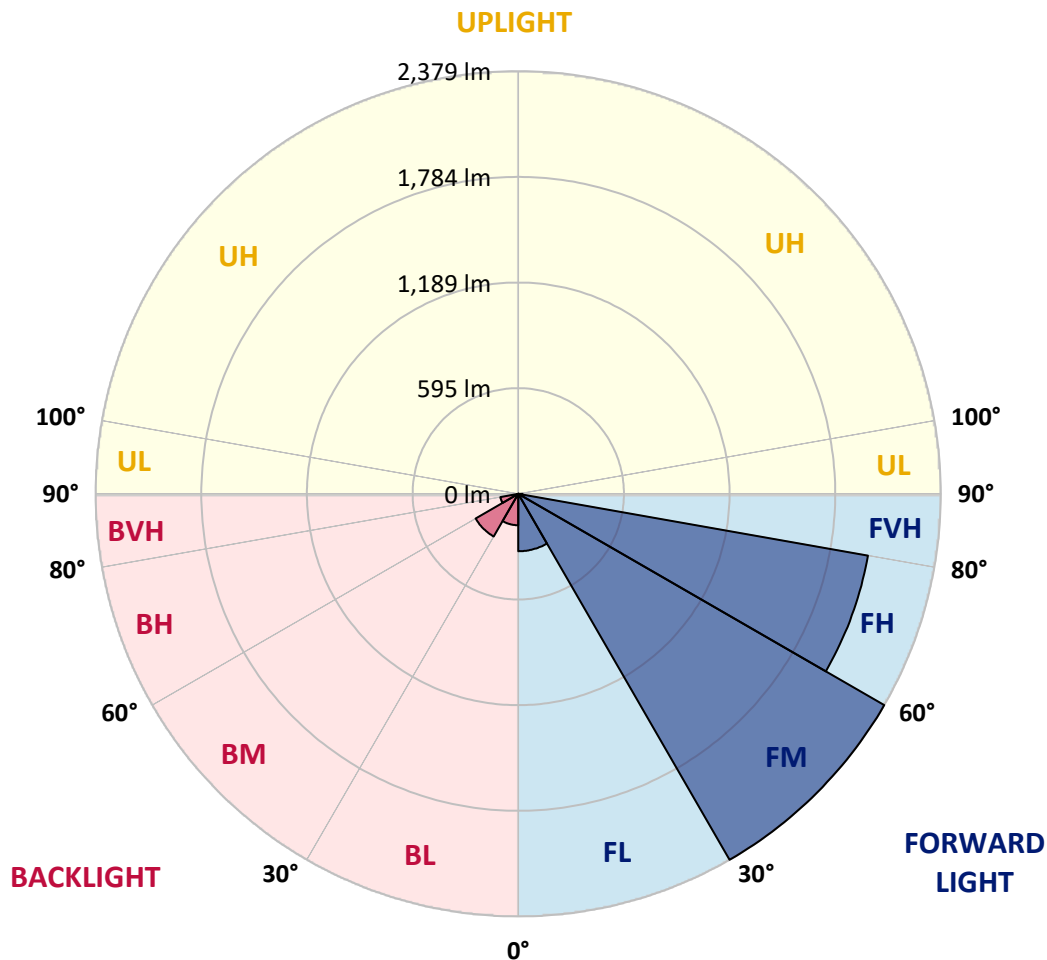


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.3	6.1			
FM (30°-60°)	2378.7	45.0			
FH (60°-80°)	1998.9	37.9			G2/5000
FVH (80°-90°)	23.3	0.4			G1/100
BL (0°-30°)	176.9	3.3	B1/500		
BM (30°-60°)	277.1	5.2	B1/1000		
BH (60°-80°)	102.1	1.9	B0/110		G0/110
BVH (80°-90°)	0.6	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	823.7	823.7	823.7	823.7	823.7	823.7	823.7	823.7	823.7	823.7	823.7
2.5°	773.4	780.3	779.3	784.0	785.7	792.3	799.0	808.0	818.1	817.7	824.4
5°	729.7	736.7	738.3	744.7	752.7	763.0	776.6	794.7	813.3	816.4	829.7
7.5°	677.9	685.3	689.6	702.3	717.0	738.3	760.7	787.0	818.1	822.4	848.1
10°	626.3	632.9	638.6	656.6	680.0	711.7	748.0	786.1	827.7	834.0	870.4
12.5°	594.3	600.6	606.9	622.6	651.6	690.3	739.6	790.7	843.7	852.7	900.8
15°	582.9	588.6	593.6	607.6	634.6	678.7	738.0	800.3	864.1	876.1	937.5
17.5°	584.6	587.6	590.9	601.6	627.9	673.3	741.0	817.0	888.1	898.7	974.2
20°	594.3	595.9	596.2	603.6	627.0	672.6	747.0	833.0	910.7	925.1	1010.4
22.5°	606.6	607.3	606.6	611.6	633.2	677.6	755.0	852.4	936.1	949.5	1047.1
25°	664.3	651.6	635.6	626.0	644.0	687.4	767.0	878.4	963.8	976.8	1082.8
27.5°	843.4	807.1	749.7	685.3	665.9	701.3	783.7	904.8	991.8	1003.5	1121.1
30°	1134.2	1086.5	989.1	844.1	736.7	730.6	805.3	931.1	1021.5	1034.1	1162.2
32.5°	1425.7	1414.0	1301.5	1100.8	895.7	796.0	841.4	966.8	1060.8	1070.8	1217.6
35°	1720.5	1696.8	1604.7	1406.3	1140.8	929.1	901.4	1013.4	1112.5	1123.8	1298.3
37.5°	1946.3	1931.9	1874.8	1711.4	1431.6	1134.5	1004.1	1085.8	1187.6	1200.2	1401.7
40°	2145.6	2139.0	2119.6	2011.9	1756.8	1403.3	1163.9	1197.9	1291.6	1306.6	1528.4
42.5°	2302.4	2318.0	2329.1	2299.1	2091.9	1710.1	1378.6	1355.3	1436.6	1452.0	1689.8
45°	2462.8	2468.1	2512.5	2555.8	2424.7	2030.9	1620.7	1539.7	1617.0	1636.1	1883.2
47.5°	2565.9	2587.2	2665.2	2741.6	2704.6	2349.1	1880.9	1757.5	1826.1	1861.8	2099.9
50°	2573.5	2613.9	2721.3	2854.3	2908.3	2651.9	2163.7	2005.6	2078.6	2118.0	2331.4
52.5°	2445.8	2508.5	2674.8	2869.7	3018.4	2908.3	2456.1	2253.7	2347.5	2398.8	2571.5
55°	1875.2	1957.2	2500.5	2786.3	3022.7	3102.8	2741.0	2512.2	2646.9	2704.9	2830.9
57.5°	1633.7	1675.1	1965.8	2641.5	2942.4	3181.1	2998.3	2758.3	2972.7	3044.8	3076.0
60°	1359.3	1413.7	1648.7	2404.8	2833.3	3188.8	3225.8	3075.7	3325.8	3406.9	3300.8
62.5°	923.7	982.8	1216.6	1997.9	2684.3	3185.1	3412.2	3402.6	3718.4	3805.4	3491.3
65°	572.3	609.3	763.3	1631.4	2475.8	3189.1	3607.3	3799.4	4132.6	4221.0	3638.6
67.5°	452.2	469.2	549.6	1252.6	2116.6	3099.1	3802.0	4172.6	4522.4	4592.4	3683.6
70°	303.8	314.2	399.9	839.7	1574.7	2683.6	3798.4	4359.9	4723.2	4758.2	3519.6
72.5°	160.1	168.1	233.8	388.9	951.1	1907.5	3201.8	4135.9	4523.4	4470.7	3008.4
75°	80.1	93.4	157.4	197.4	406.2	1063.8	1988.2	3260.8	3560.3	3356.2	1930.2
77.5°	60.7	73.4	130.1	130.1	141.3	358.1	842.0	1778.5	1640.4	1365.9	566.6
80°	38.6	50.0	113.7	98.4	59.0	91.0	219.5	498.3	348.5	265.2	103.0
82.5°	22.7	32.7	94.7	65.0	33.0	33.7	62.0	106.1	90.4	70.3	31.7
85°	9.0	21.3	65.0	25.7	13.0	8.3	18.7	22.7	18.7	14.0	8.0
87.5°	0.0	5.0	11.4	0.0	1.0	0.7	1.3	1.6	1.6	1.3	2.7
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°	823.7	823.7	823.7	823.7	823.7	823.7	823.7	823.7	823.7	823.7	823.7
2.5°	827.4	828.0	830.0	830.4	825.7	819.7	817.3	816.4	812.4	812.0	812.7
5°	837.4	840.4	837.4	828.7	808.0	779.0	757.0	739.0	722.6	717.7	714.6
7.5°	857.4	860.4	851.4	817.3	765.4	707.7	655.6	619.0	585.9	573.6	568.6
10°	886.1	890.1	861.7	793.0	701.0	608.2	520.2	458.2	409.9	390.2	381.8
12.5°	922.1	923.7	867.4	756.0	617.3	484.9	360.2	293.8	250.8	234.7	229.8
15°	961.8	959.4	868.1	705.6	503.3	342.9	235.1	193.1	175.8	170.5	170.5
17.5°	1003.5	993.7	854.7	632.9	378.1	234.4	174.5	164.4	161.4	160.1	159.7
20°	1044.5	1022.8	830.4	537.9	271.4	175.1	158.4	155.4	153.8	153.0	152.4
22.5°	1081.8	1044.8	788.7	427.5	197.1	154.8	149.8	147.1	144.1	142.8	142.4
25°	1118.2	1057.5	730.0	324.5	157.7	144.7	140.7	135.7	131.7	130.1	129.4
27.5°	1153.5	1065.5	656.6	240.2	140.7	135.4	128.0	121.1	118.1	117.4	116.7
30°	1191.3	1068.2	573.3	179.1	130.4	123.7	113.1	105.1	103.4	103.7	103.7
32.5°	1237.3	1072.1	489.2	146.8	121.8	109.7	97.1	88.7	87.3	88.7	88.4
35°	1292.2	1080.1	408.2	135.1	114.1	95.4	81.7	74.7	73.4	74.4	74.0
37.5°	1366.9	1093.2	332.5	132.7	107.7	83.3	68.7	63.0	63.0	63.3	63.0
40°	1466.4	1127.8	264.8	131.1	104.3	74.4	58.0	55.7	56.7	57.4	57.4
42.5°	1587.4	1201.5	219.1	129.0	100.8	70.3	52.7	51.7	53.4	54.0	54.0
45°	1723.1	1294.9	203.1	125.8	97.4	73.1	50.3	49.0	51.0	51.4	51.7
47.5°	1863.6	1386.3	201.1	122.1	94.0	77.1	49.7	46.6	49.0	49.4	49.7
50°	2005.6	1446.0	203.1	116.3	88.7	77.1	50.0	44.4	46.3	47.4	47.7
52.5°	2148.6	1473.3	201.7	104.0	79.3	72.4	50.0	42.3	44.4	45.0	45.0
55°	2287.4	1468.0	181.4	85.7	67.3	64.1	48.7	40.7	42.0	42.3	42.3
57.5°	2397.1	1393.6	143.7	66.7	54.7	53.4	44.4	38.6	39.7	39.4	39.4
60°	2454.5	1230.2	102.7	51.4	43.0	42.0	39.1	36.0	36.7	35.1	34.6
62.5°	2455.1	1014.1	68.7	40.7	34.3	33.3	33.3	32.4	31.7	28.4	27.4
65°	2402.8	774.4	45.7	32.4	27.7	26.0	28.0	27.7	25.3	20.7	20.0
67.5°	2284.0	507.6	34.6	25.3	21.3	20.3	22.3	23.4	21.6	17.3	17.0
70°	2040.0	295.5	28.7	19.7	16.0	15.0	18.0	20.0	18.0	14.0	13.3
72.5°	1694.4	159.4	23.4	14.7	11.0	10.0	14.3	16.3	14.3	10.4	10.0
75°	1099.5	85.4	18.0	9.6	5.6	6.4	10.7	12.0	10.0	6.7	6.0
77.5°	369.2	37.7	11.4	4.7	2.7	2.7	6.4	7.4	4.7	2.4	2.0
80°	82.4	15.7	4.7	2.0	1.0	1.0	1.3	1.3	0.7	0.0	0.0
82.5°	27.1	6.4	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.4	2.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	0.3	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)