

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: P963985

Luminaire Tested: **NAV-SB3B-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963985
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-SB3B-727-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13373.2 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

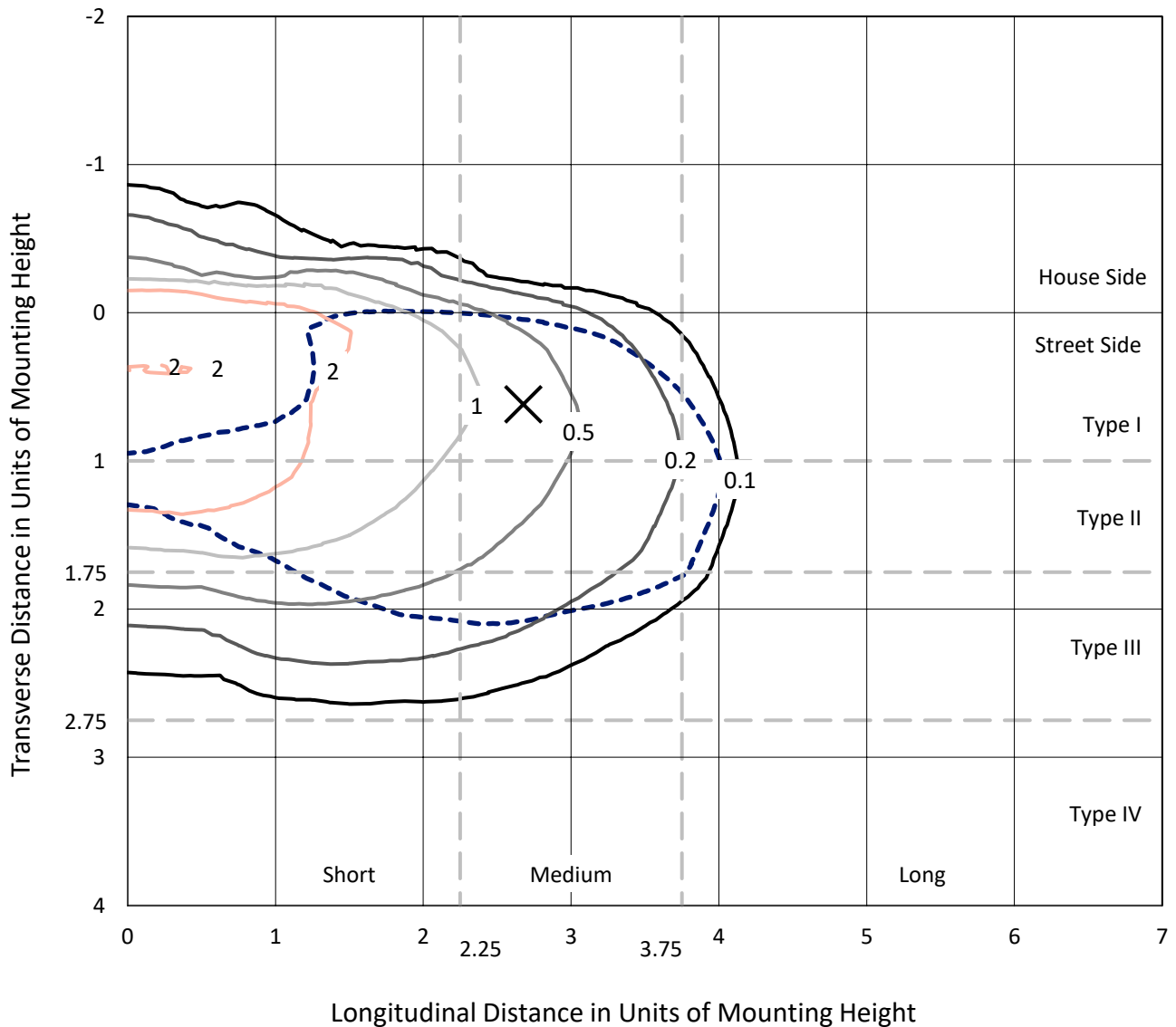
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

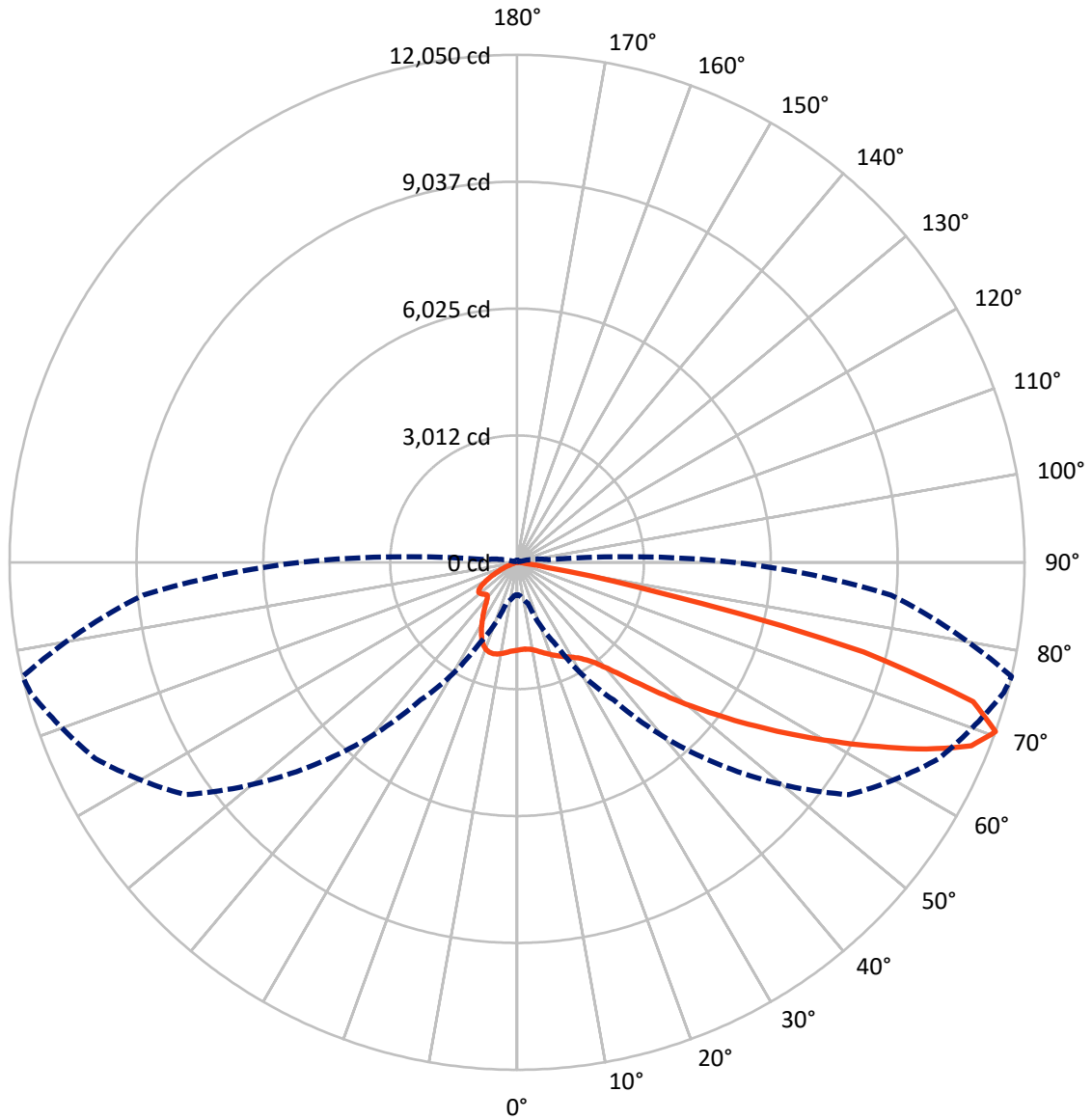
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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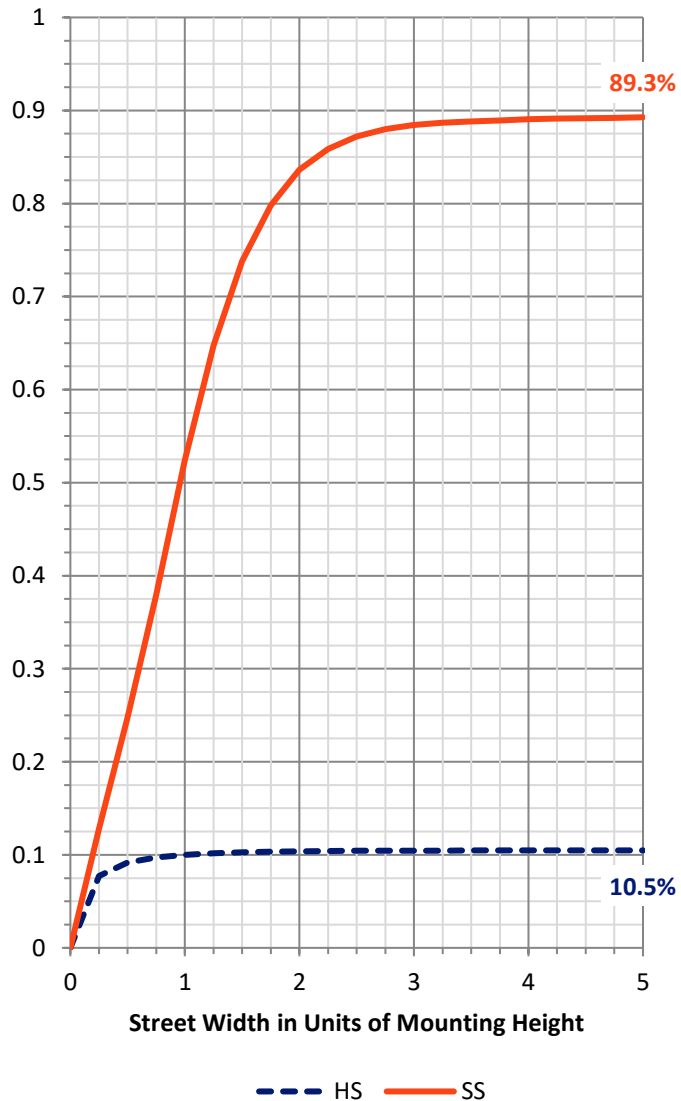
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1409.7	0.0	1409.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	11963.4	0.0	11963.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	13373.2	0.0	13373.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.8	1.3
10°-20°	426.8	3.2
20°-30°	660.1	4.9
30°-40°	1197.8	9.0
40°-50°	2261.0	16.9
50°-60°	3266.9	24.4
60°-70°	3477.5	26.0
70°-80°	1842.8	13.8
80°-90°	60.5	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°	13373.2	100.0
0°-180°	13373.2	100.0

Coefficient of Utilization

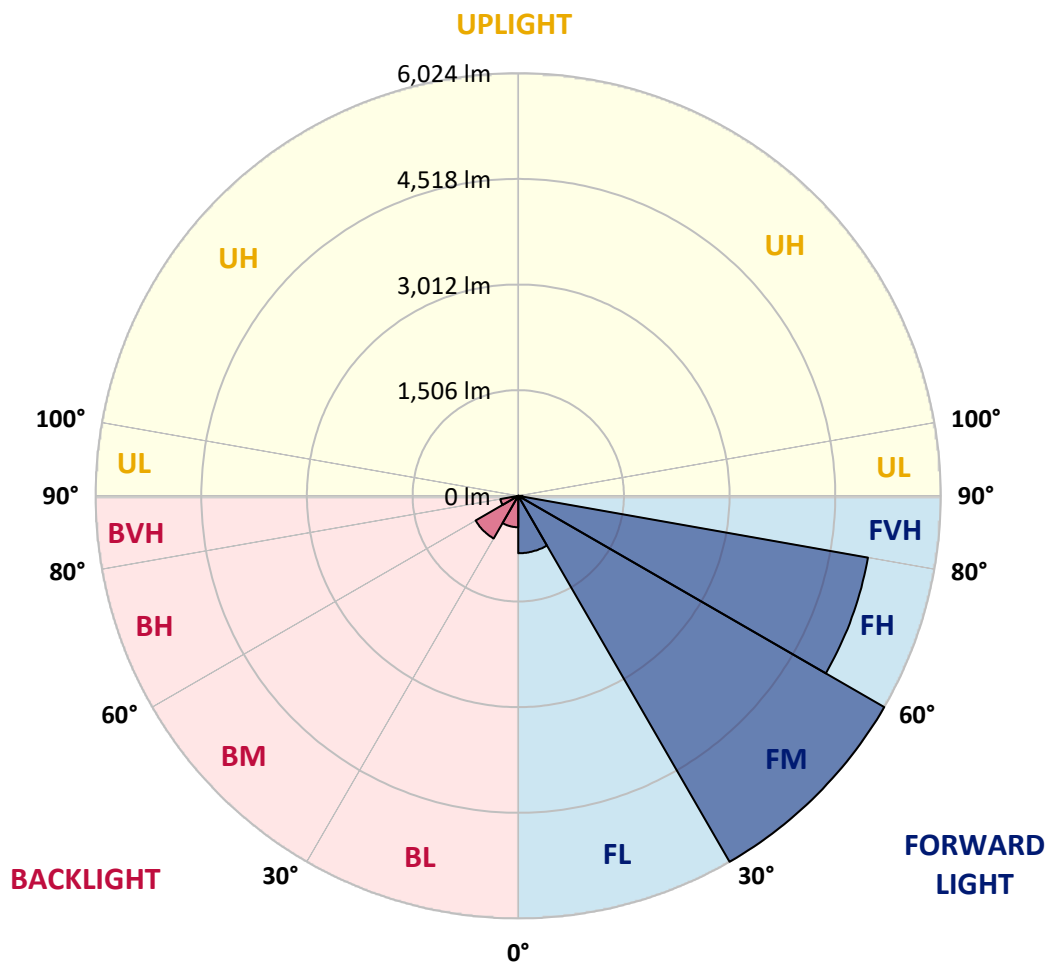


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	818.8	6.1			
FM (30°-60°)	6023.9	45.0			
FH (60°-80°)	5061.9	37.9			G3/7500
FVH (80°-90°)	58.9	0.4			G1/100
BL (0°-30°)	447.9	3.3	B1/500		
BM (30°-60°)	701.8	5.2	B1/1000		
BH (60°-80°)	258.4	1.9	B1/500		G1/500
BVH (80°-90°)	1.6	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-G3
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0
2.5°	1958.5	1976.2	1973.6	1985.4	1989.7	2006.5	2023.5	2046.3	2071.6	2070.8	2087.6
5°	1847.8	1865.6	1869.8	1885.8	1906.1	1932.2	1966.9	2012.5	2059.8	2067.4	2101.1
7.5°	1716.9	1735.5	1746.5	1778.6	1815.7	1869.8	1926.4	1993.1	2071.6	2082.6	2147.6
10°	1586.0	1602.9	1617.2	1662.9	1722.0	1802.3	1894.3	1990.5	2096.1	2112.1	2204.2
12.5°	1504.9	1521.0	1537.0	1576.8	1650.2	1748.1	1873.2	2002.3	2136.6	2159.5	2281.0
15°	1476.2	1490.6	1503.3	1538.7	1607.1	1718.6	1868.9	2026.8	2188.2	2218.6	2374.0
17.5°	1480.4	1488.1	1496.5	1523.6	1590.3	1705.1	1876.6	2069.1	2249.0	2276.0	2466.9
20°	1504.9	1509.2	1510.0	1528.6	1587.7	1703.4	1891.7	2109.7	2306.4	2342.7	2558.9
22.5°	1536.2	1537.9	1536.2	1548.9	1603.7	1716.1	1912.0	2158.6	2370.6	2404.3	2651.8
25°	1682.3	1650.2	1609.7	1585.2	1630.8	1740.6	1942.4	2224.5	2440.6	2473.6	2742.2
27.5°	2135.8	2043.7	1898.5	1735.5	1686.5	1776.0	1984.6	2291.2	2511.7	2541.2	2839.2
30°	2872.3	2751.4	2504.9	2137.5	1865.6	1850.3	2039.5	2357.9	2586.8	2618.9	2943.2
32.5°	3610.4	3580.7	3296.2	2787.8	2268.4	2015.9	2130.8	2448.3	2686.4	2711.7	3083.4
35°	4356.9	4296.9	4063.8	3561.4	2889.1	2352.9	2282.8	2566.5	2817.3	2846.0	3287.7
37.5°	4928.6	4892.3	4747.9	4334.1	3625.5	2873.1	2542.8	2749.8	3007.4	3039.4	3549.6
40°	5433.6	5416.8	5367.8	5095.0	4448.9	3553.8	2947.4	3033.5	3270.9	3308.8	3870.5
42.5°	5830.6	5870.3	5898.2	5822.1	5297.7	4330.7	3491.3	3432.1	3638.2	3677.1	4279.2
45°	6236.8	6250.3	6362.7	6472.5	6140.6	5143.1	4104.4	3899.2	4095.1	4143.3	4769.0
47.5°	6497.8	6551.8	6749.4	6942.8	6849.0	5948.8	4763.1	4450.7	4624.6	4715.0	5318.0
50°	6517.2	6619.3	6891.3	7228.3	7365.1	6715.7	5479.2	5079.0	5263.9	5363.6	5904.1
52.5°	6193.8	6352.5	6773.9	7267.1	7643.8	7365.1	6219.9	5707.3	5944.6	6074.7	6512.1
55°	4748.7	4956.5	6332.2	7056.0	7654.8	7857.4	6941.1	6361.8	6703.0	6850.0	7169.2
57.5°	4137.3	4242.1	4978.4	6689.5	7451.2	8055.9	7593.1	6985.1	7528.1	7710.5	7789.9
60°	3442.3	3579.9	4175.3	6089.8	7175.1	8075.4	8169.0	7789.1	8422.4	8627.6	8359.1
62.5°	2339.4	2488.8	3080.8	5059.5	6797.6	8066.0	8641.2	8616.7	9416.5	9636.8	8841.3
65°	1449.2	1542.9	1933.2	4131.4	6269.7	8076.2	9135.2	9621.7	10465.4	10689.1	9214.6
67.5°	1145.1	1188.3	1391.7	3172.1	5360.2	7848.1	9628.4	10566.7	11452.6	11630.0	9328.6
70°	769.4	795.5	1012.6	2126.5	3987.9	6795.9	9619.1	11041.3	11961.0	12049.7	8913.1
72.5°	405.4	425.7	592.0	984.7	2408.5	4830.7	8108.3	10473.8	11455.1	11321.6	7618.4
75°	202.6	236.5	398.6	500.0	1028.6	2694.0	5035.0	8257.7	9016.1	8499.3	4888.1
77.5°	153.8	185.8	329.3	329.3	358.0	907.0	2132.4	4503.8	4154.2	3459.2	1434.8
80°	98.0	126.7	288.0	249.2	149.4	230.5	555.7	1261.7	882.5	671.4	261.0
82.5°	57.4	82.7	239.8	164.7	83.6	85.3	157.1	268.5	228.9	178.1	80.3
85°	22.8	54.0	164.7	65.0	32.9	21.1	47.3	57.4	47.3	35.5	20.3
87.5°	0.0	12.7	28.7	0.0	2.6	1.6	3.4	4.2	4.2	3.4	6.8
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°	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0
2.5°	2095.3	2096.9	2102.1	2102.9	2091.0	2075.8	2069.9	2067.4	2057.3	2056.5	2058.1
5°	2120.6	2128.2	2120.6	2098.7	2046.3	1972.8	1917.1	1871.4	1830.0	1817.4	1809.8
7.5°	2171.3	2178.8	2156.1	2069.9	1938.2	1792.1	1660.3	1567.4	1483.8	1452.6	1439.9
10°	2243.9	2254.1	2182.2	2008.3	1775.2	1540.4	1317.4	1160.4	1037.9	988.1	967.0
12.5°	2335.2	2339.4	2196.6	1914.5	1563.2	1227.9	912.0	744.0	635.1	594.5	581.9
15°	2435.6	2429.7	2198.3	1787.0	1274.4	868.2	595.4	489.0	445.1	431.5	431.5
17.5°	2541.2	2516.7	2164.5	1602.9	957.7	593.7	441.7	416.4	408.8	405.4	404.6
20°	2645.0	2590.2	2102.9	1362.2	687.5	443.4	401.2	393.5	389.3	387.7	385.9
22.5°	2739.6	2645.9	1997.3	1082.7	499.1	391.9	379.1	372.5	364.8	361.4	360.6
25°	2831.7	2678.0	1848.7	821.7	399.4	366.5	356.4	343.7	333.6	329.3	327.7
27.5°	2921.2	2698.2	1662.9	608.0	356.4	342.9	324.3	306.6	299.0	297.2	295.6
30°	3016.7	2705.0	1451.7	453.5	330.3	313.3	286.3	266.0	261.8	262.6	262.6
32.5°	3133.2	2715.1	1238.9	371.6	308.2	277.9	245.8	224.7	221.3	224.7	223.8
35°	3272.5	2735.4	1033.7	342.0	288.8	241.5	206.9	189.2	185.8	188.3	187.5
37.5°	3461.7	2768.3	842.0	336.1	272.8	211.2	173.9	159.6	159.6	160.4	159.6
40°	3713.4	2856.2	670.6	331.9	264.3	188.3	147.0	141.0	143.6	145.2	145.2
42.5°	4019.9	3042.8	554.8	326.9	255.0	178.1	133.5	130.9	135.1	136.8	136.8
45°	4363.6	3279.3	514.3	318.4	246.6	184.9	127.5	124.1	129.3	130.1	130.9
47.5°	4719.2	3510.7	509.2	309.1	238.1	195.1	125.9	118.2	124.1	124.9	125.9
50°	5079.0	3661.8	514.3	294.8	224.7	195.1	126.7	112.3	117.4	119.9	120.7
52.5°	5441.3	3731.1	511.0	263.5	201.0	183.3	126.7	107.2	112.3	114.0	114.0
55°	5792.6	3717.6	459.4	217.0	170.6	162.2	123.3	103.0	106.4	107.2	107.2
57.5°	6070.5	3529.3	364.0	168.9	138.5	135.1	112.3	98.0	100.4	99.6	99.6
60°	6215.7	3115.5	260.1	130.1	109.0	106.4	98.8	91.2	92.9	88.7	87.8
62.5°	6217.3	2568.2	173.9	103.0	87.0	84.5	84.5	81.9	80.3	71.8	69.3
65°	6084.8	1961.0	115.7	81.9	70.1	65.9	70.9	70.1	64.2	52.4	50.6
67.5°	5784.2	1285.4	87.8	64.2	54.0	51.6	56.6	59.1	54.9	43.9	43.0
70°	5166.0	748.2	72.7	49.8	40.5	38.0	45.6	50.6	45.6	35.5	33.8
72.5°	4291.1	403.6	59.1	37.2	27.9	25.3	36.3	41.4	36.3	26.1	25.3
75°	2784.4	216.2	45.6	24.5	14.3	16.1	27.1	30.4	25.3	16.9	15.2
77.5°	934.9	95.4	28.7	11.8	6.8	6.8	16.1	18.6	11.8	5.9	5.0
80°	208.6	39.7	11.8	5.0	2.6	2.6	3.4	3.4	1.6	0.0	0.0
82.5°	68.4	16.1	5.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.1	5.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	0.8	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)