

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: P962900

Luminaire Tested: **NAV-SB2D-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962900
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-SB2D-722-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA 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: 14345.9 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

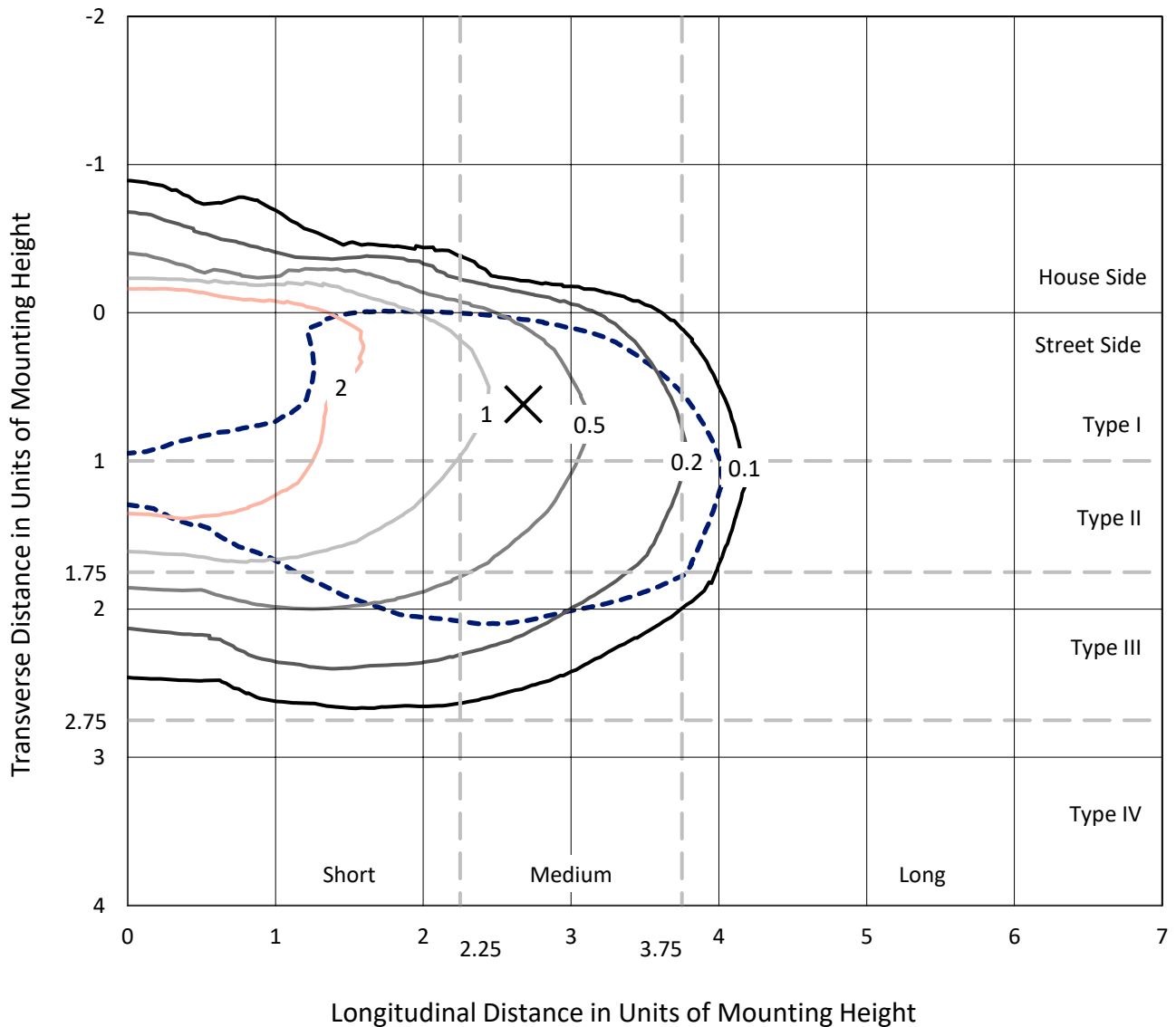
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

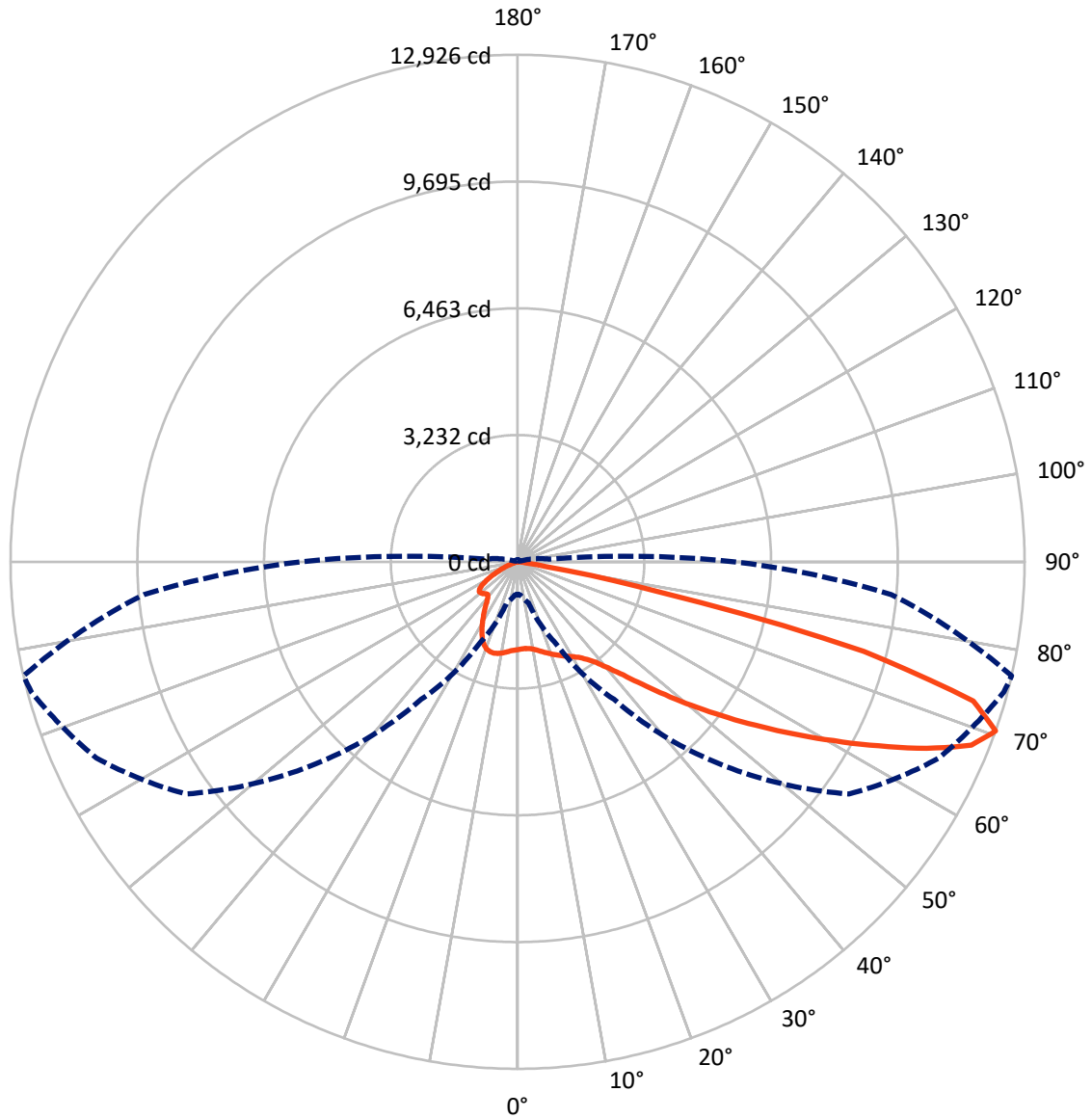
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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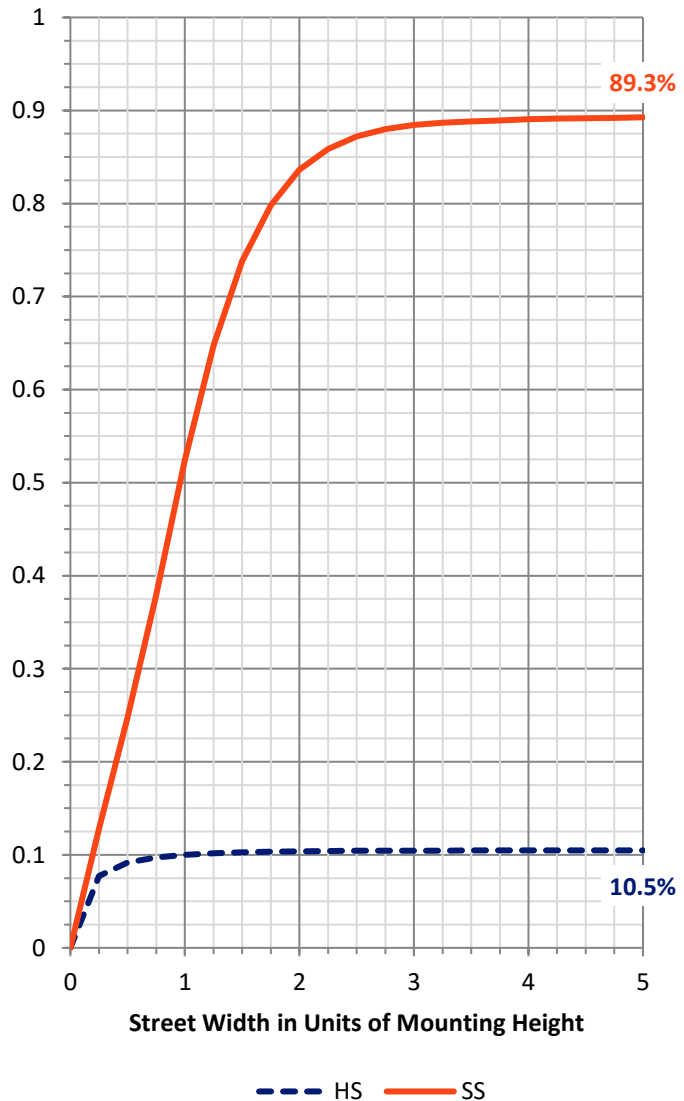
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1512.3	0.0	1512.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	12833.6	0.0	12833.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	14345.9	0.0	14345.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.9	1.3
10°-20°	457.8	3.2
20°-30°	708.1	4.9
30°-40°	1284.9	9.0
40°-50°	2425.4	16.9
50°-60°	3504.5	24.4
60°-70°	3730.5	26.0
70°-80°	1976.9	13.8
80°-90°	64.9	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°	14345.9	100.0
0°-180°	14345.9	100.0

Coefficient of Utilization

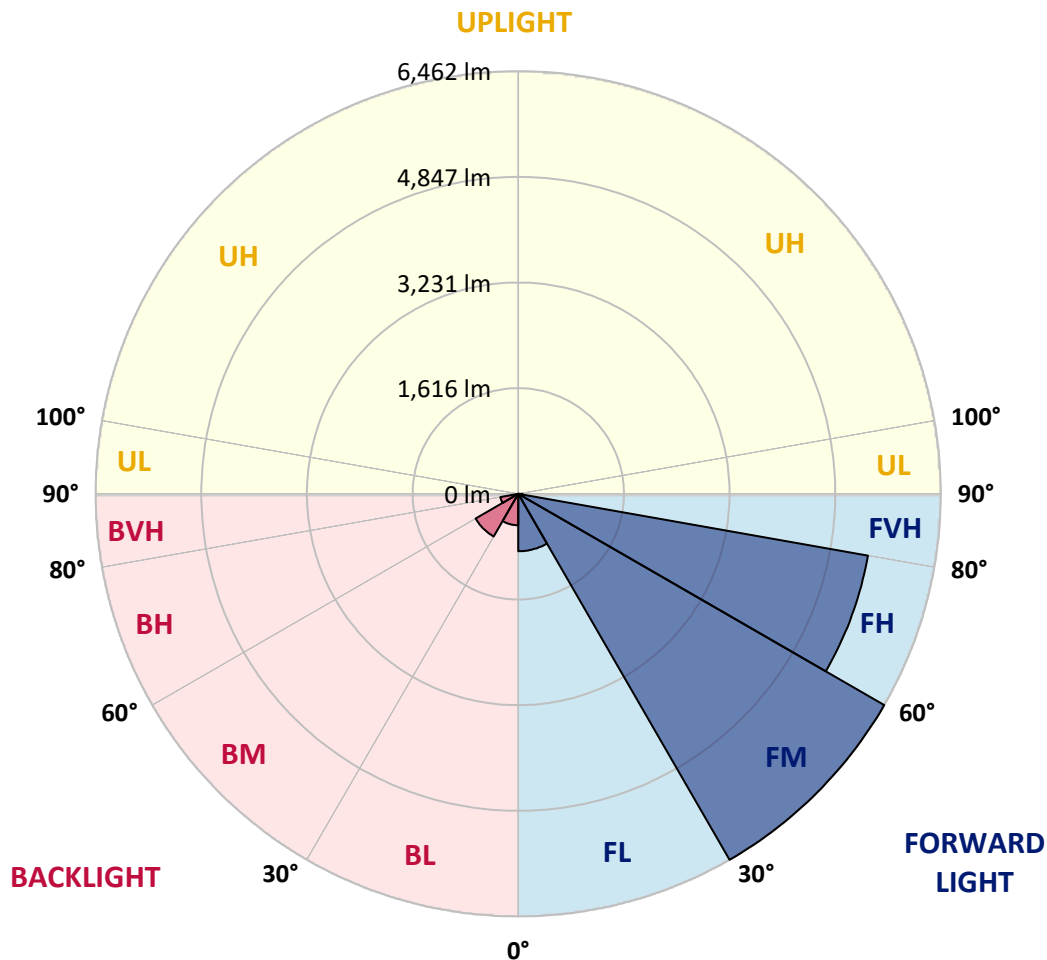


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	878.3	6.1			
FM (30°-60°)	6462.0	45.0			
FH (60°-80°)	5430.1	37.9			G3/7500
FVH (80°-90°)	63.2	0.4			G1/100
BL (0°-30°)	480.5	3.3	B1/500		
BM (30°-60°)	752.8	5.2	B1/1000		
BH (60°-80°)	277.2	1.9	B1/500		G1/500
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: 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°	2237.7	2237.7	2237.7	2237.7	2237.7	2237.7	2237.7	2237.7	2237.7	2237.7	2237.7
2.5°	2100.9	2119.9	2117.2	2129.8	2134.5	2152.5	2170.6	2195.1	2222.3	2221.4	2239.5
5°	1982.2	2001.2	2005.8	2022.9	2044.8	2072.9	2110.0	2158.9	2209.6	2217.8	2254.0
7.5°	1841.8	1861.7	1873.5	1907.9	1947.8	2005.8	2066.5	2138.0	2222.3	2234.1	2303.8
10°	1701.4	1719.5	1734.9	1783.8	1847.3	1933.3	2032.1	2135.3	2248.5	2265.8	2364.6
12.5°	1614.4	1631.6	1648.8	1691.5	1770.3	1875.3	2009.4	2148.0	2292.1	2316.5	2447.0
15°	1583.6	1599.0	1612.6	1650.7	1724.0	1843.6	2004.9	2174.3	2347.4	2379.9	2546.6
17.5°	1588.1	1596.3	1605.4	1634.4	1705.9	1829.1	2013.0	2219.5	2412.5	2441.5	2646.2
20°	1614.4	1618.9	1619.8	1639.8	1703.1	1827.3	2029.3	2263.1	2474.1	2513.1	2745.1
22.5°	1647.9	1649.7	1647.9	1661.5	1720.4	1840.9	2051.0	2315.6	2543.0	2579.2	2844.7
25°	1804.6	1770.3	1726.7	1700.5	1749.4	1867.1	2083.7	2386.3	2618.2	2653.5	2941.6
27.5°	2291.2	2192.4	2036.6	1861.7	1809.2	1905.2	2129.0	2457.8	2694.3	2726.0	3045.8
30°	3081.1	2951.6	2687.0	2292.9	2001.2	1984.9	2187.9	2529.4	2774.9	2809.3	3157.2
32.5°	3873.0	3841.2	3535.9	2990.5	2433.4	2162.5	2285.8	2626.4	2881.8	2909.1	3307.7
35°	4673.8	4609.5	4359.4	3820.4	3099.3	2524.0	2448.8	2753.1	3022.2	3053.1	3526.8
37.5°	5287.2	5248.2	5093.2	4649.3	3889.3	3082.1	2727.8	2949.7	3226.1	3260.5	3807.7
40°	5828.9	5810.7	5758.2	5465.6	4772.6	3812.3	3161.8	3254.2	3508.8	3549.5	4152.0
42.5°	6254.7	6297.3	6327.1	6245.6	5683.0	4645.7	3745.2	3681.8	3902.8	3944.5	4590.5
45°	6690.5	6704.9	6825.5	6943.2	6587.2	5517.3	4402.9	4182.8	4392.9	4444.6	5115.9
47.5°	6970.4	7028.4	7240.4	7447.9	7347.3	6381.5	5109.5	4774.3	4961.0	5058.0	5704.7
50°	6991.2	7100.9	7392.6	7754.0	7900.8	7204.1	5877.9	5448.4	5646.8	5753.7	6333.5
52.5°	6644.3	6814.6	7266.6	7795.7	8199.8	7900.8	6672.3	6122.4	6377.0	6516.5	6985.8
55°	5094.1	5317.0	6792.8	7569.2	8211.6	8429.0	7446.0	6824.6	7190.6	7348.2	7690.6
57.5°	4438.2	4550.6	5340.6	7176.0	7993.3	8641.9	8145.4	7493.2	8075.7	8271.3	8356.5
60°	3692.7	3840.4	4479.0	6532.8	7696.9	8662.7	8763.2	8355.6	9035.1	9255.2	8967.1
62.5°	2509.5	2669.8	3304.9	5427.6	7292.1	8652.7	9269.7	9243.4	10101.4	10337.8	9484.4
65°	1554.6	1655.2	2073.7	4431.9	6725.7	8663.6	9799.7	10321.5	11226.5	11466.7	9884.8
67.5°	1228.5	1274.7	1493.0	3402.8	5750.0	8419.0	10328.7	11335.3	12285.6	12475.9	10007.2
70°	825.3	853.4	1086.2	2281.1	4277.9	7290.2	10318.8	11844.4	12830.9	12926.2	9561.4
72.5°	434.9	456.6	635.1	1056.4	2583.8	5182.1	8698.0	11235.6	12288.3	12145.2	8172.6
75°	217.4	253.7	427.6	536.3	1103.4	2890.0	5401.2	8858.4	9671.9	9117.5	5243.7
77.5°	164.9	199.3	353.3	353.3	384.2	973.0	2287.5	4831.4	4456.4	3710.8	1539.2
80°	105.1	135.9	308.9	267.2	160.3	247.3	596.1	1353.5	946.7	720.3	279.9
82.5°	61.6	88.8	257.3	176.7	89.7	91.5	168.5	288.1	245.5	191.2	86.1
85°	24.5	58.0	176.7	69.8	35.4	22.7	50.7	61.6	50.7	38.0	21.7
87.5°	0.0	13.6	30.9	0.0	2.8	1.8	3.6	4.5	4.5	3.6	7.3
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°	2237.7	2237.7	2237.7	2237.7	2237.7	2237.7	2237.7	2237.7	2237.7	2237.7	2237.7
2.5°	2247.6	2249.5	2254.9	2255.8	2243.1	2226.8	2220.5	2217.8	2206.9	2206.0	2207.8
5°	2274.9	2283.0	2274.9	2251.3	2195.1	2116.3	2056.6	2007.6	1963.2	1949.7	1941.5
7.5°	2329.2	2337.3	2312.9	2220.5	2079.1	1922.4	1781.1	1681.4	1591.7	1558.2	1544.7
10°	2407.1	2418.0	2341.0	2154.3	1904.3	1652.5	1413.3	1244.8	1113.5	1060.0	1037.3
12.5°	2505.0	2509.5	2356.4	2053.8	1676.9	1317.2	978.5	798.2	681.3	637.8	624.2
15°	2612.7	2606.5	2358.2	1917.0	1367.0	931.3	638.7	524.6	477.4	463.0	463.0
17.5°	2726.0	2699.7	2321.9	1719.5	1027.4	636.9	473.9	446.6	438.5	434.9	434.0
20°	2837.4	2778.6	2255.8	1461.3	737.5	475.6	430.3	422.2	417.7	415.8	414.0
22.5°	2938.9	2838.3	2142.6	1161.4	535.5	420.4	406.8	399.5	391.3	387.8	386.8
25°	3037.7	2872.8	1983.2	881.5	428.6	393.2	382.3	368.7	357.8	353.3	351.5
27.5°	3133.7	2894.5	1783.8	652.3	382.3	367.8	347.9	328.8	320.7	318.9	317.0
30°	3236.0	2901.8	1557.3	486.5	354.2	336.1	307.1	285.4	280.8	281.8	281.8
32.5°	3361.1	2912.6	1329.0	398.6	330.7	298.1	263.6	241.0	237.4	241.0	240.1
35°	3510.5	2934.4	1108.8	367.0	309.9	259.1	221.9	203.0	199.3	202.0	201.1
37.5°	3713.5	2969.7	903.2	360.6	292.6	226.5	186.7	171.2	171.2	172.1	171.2
40°	3983.5	3063.9	719.3	356.1	283.5	202.0	157.6	151.3	154.1	155.8	155.8
42.5°	4312.4	3264.1	595.2	350.7	273.6	191.2	143.1	140.4	144.9	146.8	146.8
45°	4681.1	3517.8	551.8	341.5	264.6	198.4	136.8	133.1	138.6	139.5	140.4
47.5°	5062.5	3766.1	546.3	331.6	255.4	209.3	135.0	126.8	133.1	134.1	135.0
50°	5448.4	3928.2	551.8	316.2	241.0	209.3	135.9	120.5	126.0	128.6	129.6
52.5°	5837.1	4002.5	548.1	282.7	215.7	196.6	135.9	115.0	120.5	122.3	122.3
55°	6214.0	3988.0	492.8	232.9	183.0	173.9	132.2	110.5	114.2	115.0	115.0
57.5°	6512.0	3785.9	390.4	181.2	148.6	144.9	120.5	105.1	107.8	106.9	106.9
60°	6667.8	3342.0	279.0	139.5	116.8	114.2	106.0	97.9	99.6	95.1	94.2
62.5°	6669.6	2755.0	186.7	110.5	93.3	90.6	90.6	87.8	86.1	77.0	74.3
65°	6527.4	2103.6	124.1	87.8	75.2	70.6	76.1	75.2	68.9	56.2	54.3
67.5°	6204.8	1378.8	94.2	68.9	58.0	55.2	60.7	63.4	58.9	47.2	46.2
70°	5541.7	802.7	77.9	53.4	43.5	40.8	48.9	54.3	48.9	38.0	36.3
72.5°	4603.2	433.1	63.4	39.9	29.9	27.2	38.9	44.4	38.9	28.1	27.2
75°	2987.0	232.0	48.9	26.2	15.4	17.2	29.0	32.6	27.2	18.1	16.3
77.5°	1002.9	102.4	30.9	12.7	7.3	7.3	17.2	19.9	12.7	6.4	5.4
80°	223.8	42.5	12.7	5.4	2.8	2.8	3.6	3.6	1.8	0.0	0.0
82.5°	73.4	17.2	5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.1	6.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.9	0.9	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)