

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: P962428

Luminaire Tested: **NAV-SB2C-730-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962428  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2C-730-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11210.4 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

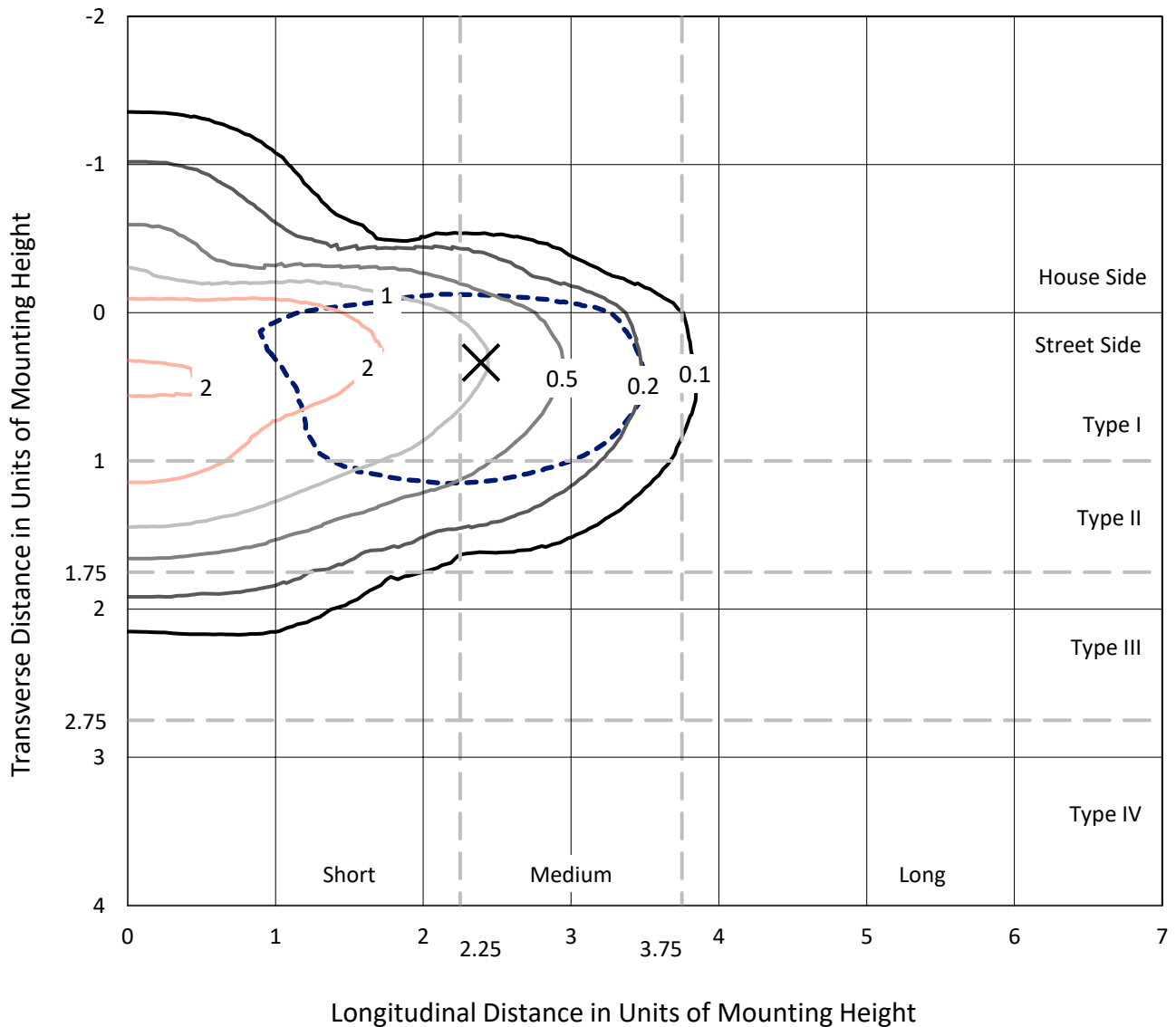
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

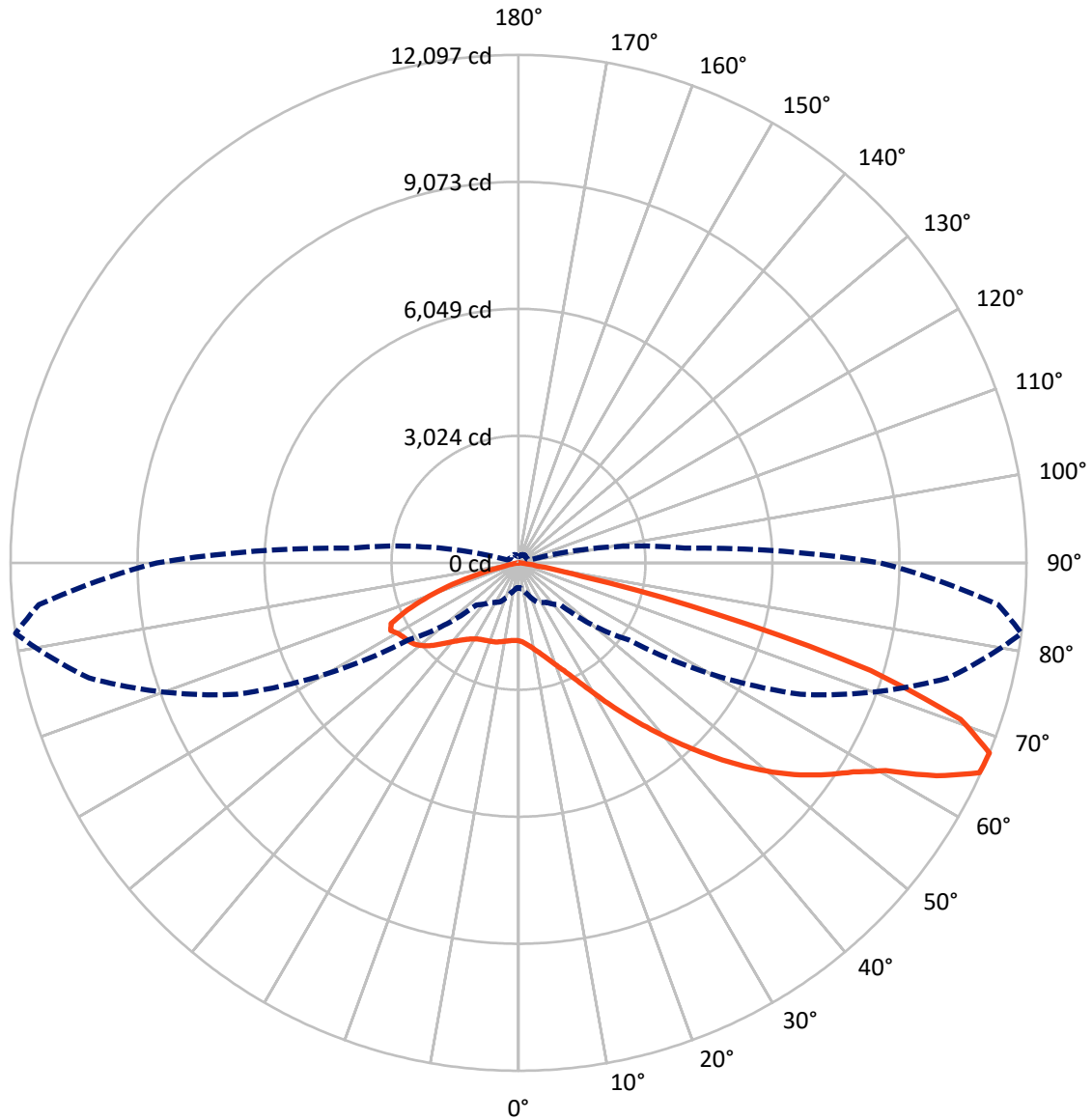
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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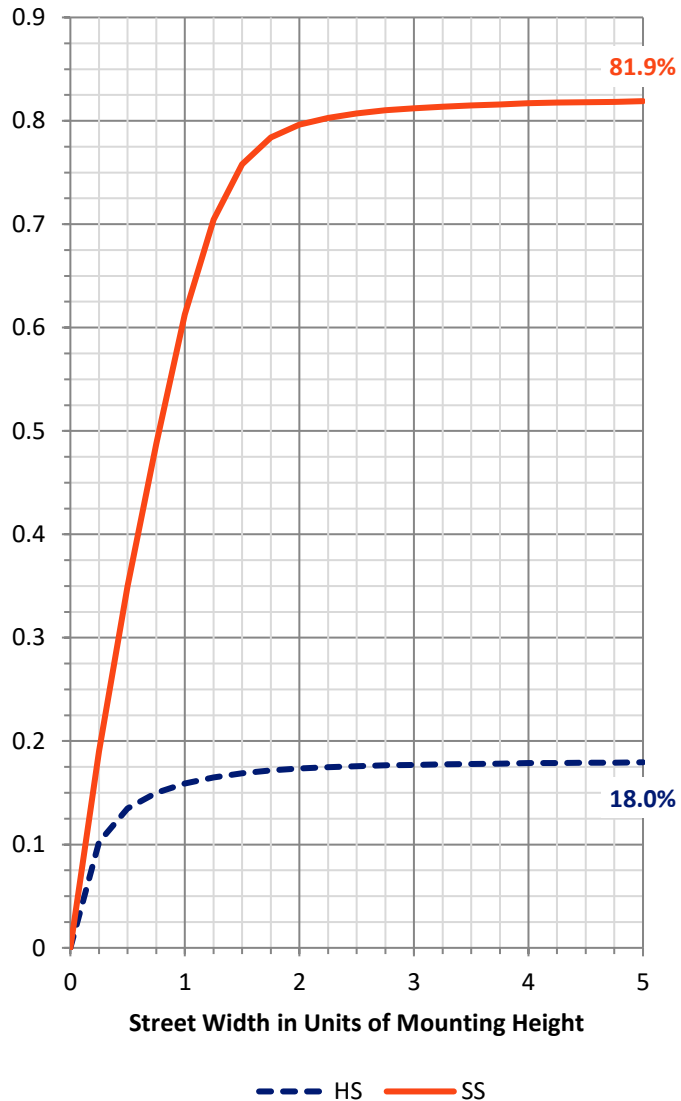
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2030.7	0.0	2030.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	9179.8	0.0	9179.8
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	11210.4	0.0	11210.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.5	1.5
10°-20°	430.0	3.8
20°-30°	688.7	6.1
30°-40°	1217.8	10.9
40°-50°	2133.7	19.0
50°-60°	2845.7	25.4
60°-70°	2649.2	23.6
70°-80°	1016.8	9.1
80°-90°	63.2	0.6
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°	11210.4	100.0
0°-180°	11210.4	100.0

**Coefficient of Utilization**

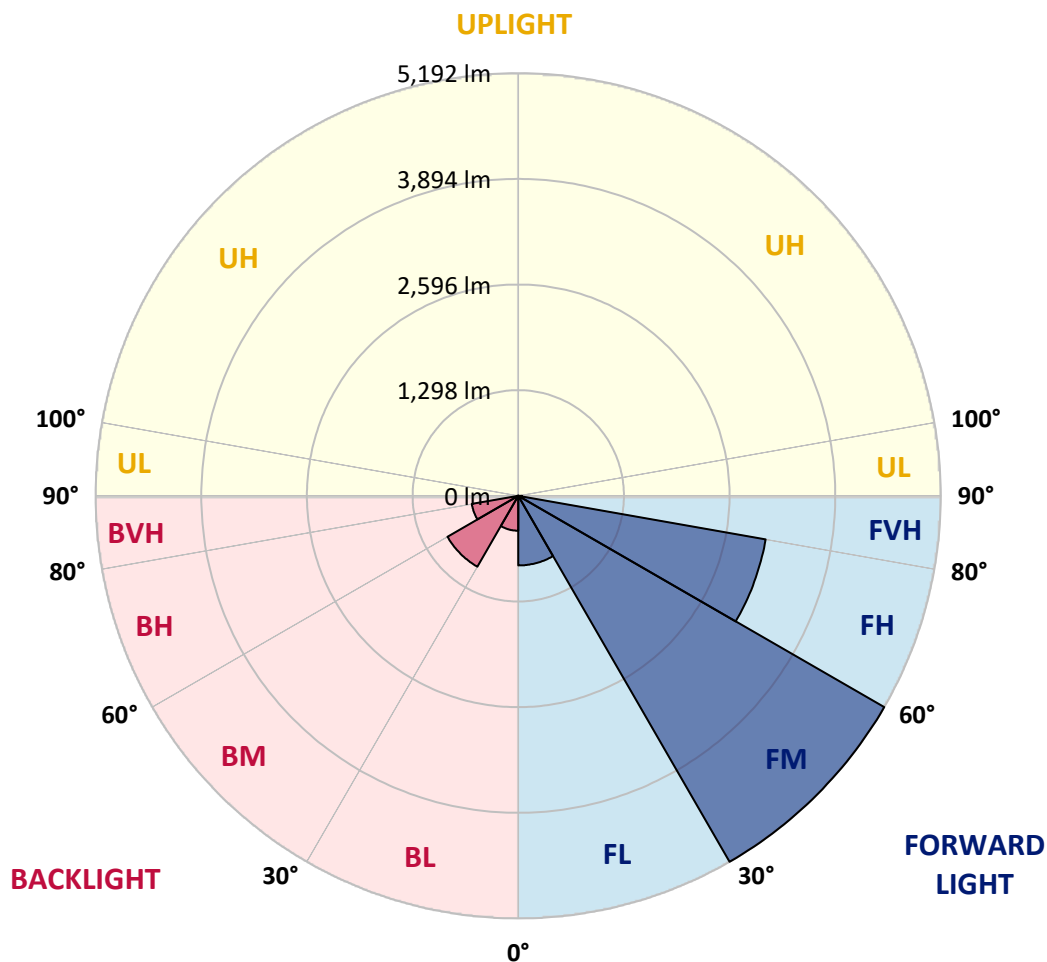


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	855.2	7.6			
FM (30°-60°)	5192.2	46.3			
FH (60°-80°)	3086.4	27.5			G2/5000
FVH (80°-90°)	45.9	0.4			G1/100
BL (0°-30°)	428.9	3.8	B1/500		
BM (30°-60°)	1005.0	9.0	B2/2500		
BH (60°-80°)	579.6	5.2	B2/1000		G2/1000
BVH (80°-90°)	17.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2
2.5°	1962.9	1974.3	1967.8	1964.5	1958.9	1950.8	1944.3	1924.1	1903.2	1889.5	1884.7
5°	2002.4	2013.8	2013.0	2016.2	2020.3	2022.6	2021.0	1998.4	1968.6	1945.1	1931.4
7.5°	1968.6	1981.5	1992.0	2008.1	2036.4	2066.2	2080.8	2075.9	2045.3	2013.0	1996.0
10°	1872.6	1886.2	1911.2	1949.2	2008.9	2073.5	2127.6	2152.6	2133.2	2097.7	2074.3
12.5°	1696.6	1710.3	1759.5	1841.8	1942.0	2054.1	2157.4	2224.5	2229.3	2193.8	2166.3
15°	1498.9	1512.6	1565.0	1668.3	1820.9	2000.9	2173.6	2300.3	2343.0	2312.4	2279.3
17.5°	1376.2	1388.3	1427.8	1511.0	1669.9	1894.3	2168.0	2381.0	2478.7	2454.5	2414.9
20°	1339.1	1349.5	1368.1	1426.2	1558.5	1783.7	2130.8	2456.9	2624.7	2611.1	2566.6
22.5°	1378.5	1388.3	1393.9	1419.7	1502.9	1711.1	2084.0	2534.3	2794.3	2795.9	2741.8
25°	1469.7	1479.5	1473.0	1489.1	1525.5	1688.5	2066.2	2625.5	3007.4	3025.1	2963.8
27.5°	1619.9	1620.7	1605.4	1604.5	1610.2	1722.4	2084.7	2723.2	3276.1	3309.2	3233.4
30°	1921.0	1908.9	1849.9	1786.2	1757.1	1824.1	2136.4	2838.6	3593.3	3652.2	3557.0
32.5°	2385.1	2367.3	2259.1	2106.6	1953.2	1988.0	2229.3	2970.2	3938.8	4045.3	3929.0
35°	2888.7	2883.8	2770.9	2544.0	2276.1	2221.2	2380.2	3143.0	4315.7	4485.2	4347.1
37.5°	3356.8	3354.4	3289.8	3022.6	2696.6	2546.5	2622.4	3369.0	4719.2	4964.6	4801.6
40°	3784.6	3791.9	3727.3	3488.4	3159.9	2963.8	2951.7	3648.2	5168.0	5486.8	5293.1
42.5°	4154.2	4162.3	4096.9	3920.2	3617.5	3425.4	3356.1	3990.4	5606.2	6047.8	5818.5
45°	4405.2	4455.3	4445.6	4304.4	4087.3	3887.9	3841.9	4419.8	6105.9	6642.6	6373.9
47.5°	4476.3	4522.3	4595.0	4614.3	4481.9	4285.8	4340.7	4937.1	6611.1	7238.2	6932.4
50°	4301.1	4344.0	4494.8	4695.8	4787.9	4727.3	4825.8	5491.6	7128.5	7832.3	7480.4
52.5°	3955.7	3999.2	4189.8	4507.7	4883.1	5073.5	5312.5	6038.1	7629.7	8394.9	7999.4
55°	3456.1	3502.1	3746.7	4106.7	4701.5	5216.4	5718.5	6583.7	8089.0	8900.9	8467.5
57.5°	2776.5	2810.4	3064.6	3568.3	4244.6	5074.4	6017.9	7179.3	8521.6	9398.1	8931.6
60°	1809.5	1839.5	2134.9	2696.6	3487.6	4599.8	6077.6	7843.6	9096.3	10044.6	9557.1
62.5°	1203.5	1223.6	1398.7	1811.2	2456.1	3688.6	5728.1	8373.9	9938.9	11169.7	10629.8
65°	825.6	845.8	1021.0	1308.3	1586.8	2439.9	4723.3	8303.6	10702.4	12063.2	11424.9
67.5°	589.2	606.2	754.7	1025.8	1148.5	1417.3	3201.9	7406.1	10592.7	12097.2	11467.6
70°	422.1	431.8	554.5	799.1	912.9	851.5	1780.5	5664.4	9274.6	11170.6	10594.3
72.5°	295.4	298.7	385.0	608.5	735.3	621.5	847.5	3776.5	7014.7	8767.7	8213.3
75°	200.2	204.2	259.1	446.4	590.0	474.6	448.7	2025.1	4117.9	4853.3	4350.4
77.5°	122.7	124.3	167.1	305.1	441.5	361.6	288.9	857.9	1593.3	1564.3	1333.3
80°	69.4	69.4	106.5	189.6	301.0	233.3	202.5	364.8	504.4	443.1	390.6
82.5°	38.7	39.6	77.5	117.9	199.4	138.1	111.4	168.7	217.9	192.9	167.9
85°	16.1	17.7	47.7	55.7	95.2	68.6	45.2	71.0	80.7	71.9	52.5
87.5°	1.6	2.5	14.6	10.5	11.3	13.7	6.5	13.7	11.3	11.3	8.1
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°	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2
2.5°	1869.3	1857.2	1826.6	1791.0	1744.1	1721.6	1690.9	1669.9	1652.2	1653.8	1637.6
5°	1905.6	1874.9	1806.4	1720.8	1614.3	1538.4	1457.7	1402.0	1356.8	1347.1	1325.3
7.5°	1955.7	1907.2	1787.0	1632.8	1452.8	1316.4	1194.5	1116.2	1060.6	1042.8	1025.0
10°	2020.3	1950.0	1762.0	1522.2	1263.1	1089.6	958.9	897.5	859.6	846.6	837.0
12.5°	2095.3	1999.3	1728.9	1387.4	1067.8	900.8	817.6	787.0	774.8	770.8	768.3
15°	2189.7	2060.6	1678.8	1227.6	902.4	785.4	749.8	745.8	747.4	745.8	745.0
17.5°	2301.9	2127.6	1597.3	1063.0	791.0	726.4	713.5	716.7	720.8	720.0	718.3
20°	2424.6	2193.8	1493.2	916.9	715.1	684.4	677.2	680.4	683.7	682.0	681.2
22.5°	2564.2	2264.7	1377.8	803.1	664.3	645.6	637.7	638.5	638.5	635.2	633.6
25°	2731.3	2343.0	1256.6	722.4	625.6	611.0	601.3	598.1	593.3	583.5	581.9
27.5°	2930.7	2426.2	1140.4	665.8	594.8	581.2	569.8	561.8	549.6	533.5	531.9
30°	3155.1	2527.1	1042.0	630.4	570.6	556.9	544.0	531.9	514.1	493.9	492.3
32.5°	3419.0	2635.3	970.2	607.0	548.9	534.3	519.0	504.4	485.0	464.9	465.8
35°	3733.8	2766.0	928.2	590.8	531.9	512.5	495.6	479.4	464.9	447.1	445.6
37.5°	4075.2	2904.8	915.3	582.7	520.6	490.8	471.4	460.0	458.5	447.9	447.1
40°	4448.8	3069.5	925.0	577.9	508.5	469.8	448.7	446.4	450.4	431.8	432.7
42.5°	4844.4	3264.8	941.2	572.3	491.5	448.7	428.6	428.6	425.4	399.5	399.5
45°	5272.1	3490.0	957.2	558.5	471.4	427.7	412.5	406.8	393.1	368.1	367.3
47.5°	5703.1	3719.2	969.3	533.5	447.1	410.0	396.3	383.3	363.2	340.6	339.8
50°	6112.4	3925.0	956.4	496.4	419.7	393.1	378.5	360.8	339.0	323.7	321.2
52.5°	6478.0	4103.4	901.6	452.8	390.6	375.4	362.4	343.8	326.1	310.0	308.3
55°	6796.0	4247.9	804.7	411.6	364.8	360.0	347.1	323.7	299.4	285.8	284.1
57.5°	7101.1	4357.7	683.7	377.7	341.4	343.1	323.7	302.7	280.0	265.6	263.9
60°	7507.0	4504.6	561.0	346.2	316.4	321.2	300.2	285.0	256.7	238.1	235.6
62.5°	8155.9	4732.9	445.6	307.5	287.3	288.9	280.0	261.5	227.7	205.8	204.2
65°	8670.9	4649.0	351.1	265.6	254.2	256.7	256.7	236.5	200.2	175.2	172.7
67.5°	8612.8	3980.7	280.0	224.4	222.7	224.4	230.0	213.1	177.5	157.4	154.2
70°	7934.0	3166.3	224.4	186.4	193.7	189.6	205.8	194.5	159.8	139.6	137.2
72.5°	6473.9	2280.9	171.1	154.2	148.5	155.0	185.6	175.2	133.1	110.6	108.1
75°	3783.0	1217.2	127.5	121.9	107.3	129.1	164.6	149.3	101.7	81.5	79.1
77.5°	1231.6	424.6	93.6	89.6	79.9	104.1	140.4	125.9	83.1	64.6	62.1
80°	330.2	128.3	63.8	58.9	51.7	77.5	111.4	100.0	59.8	41.9	41.2
82.5°	132.3	54.1	37.1	33.1	28.3	53.3	87.9	80.7	44.4	26.6	26.6
85°	42.7	17.7	13.7	10.5	12.9	33.1	52.5	54.8	31.5	13.7	10.5
87.5°	5.6	2.5	2.5	3.2	2.5	5.6	16.1	15.4	8.9	1.6	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)