

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: P885356

Luminaire Tested: **NAV-SB6C-835-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885356  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-835-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

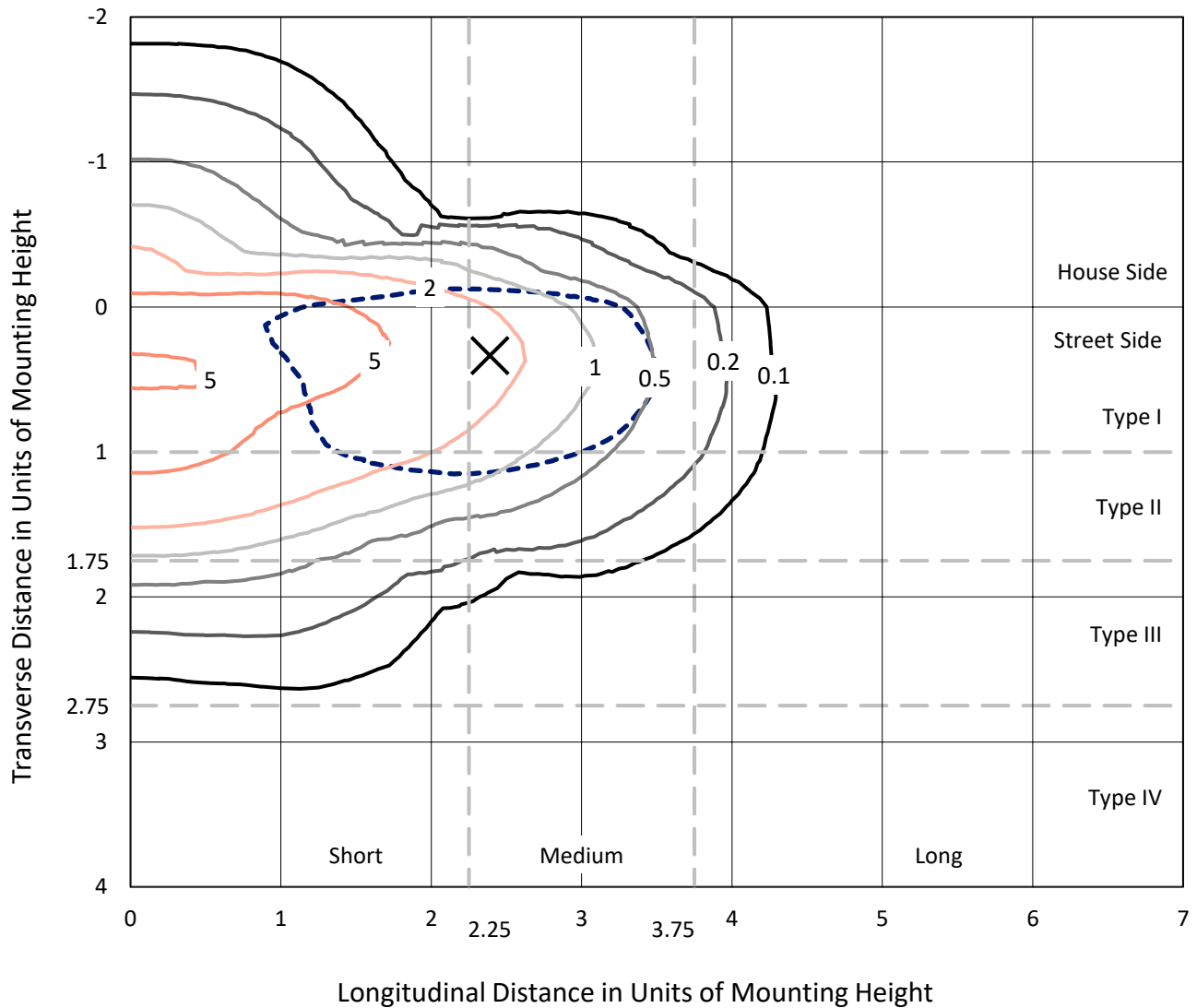
Lumens per Lamp: N/A  
Luminaire Lumens: 28007 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 2.518  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
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

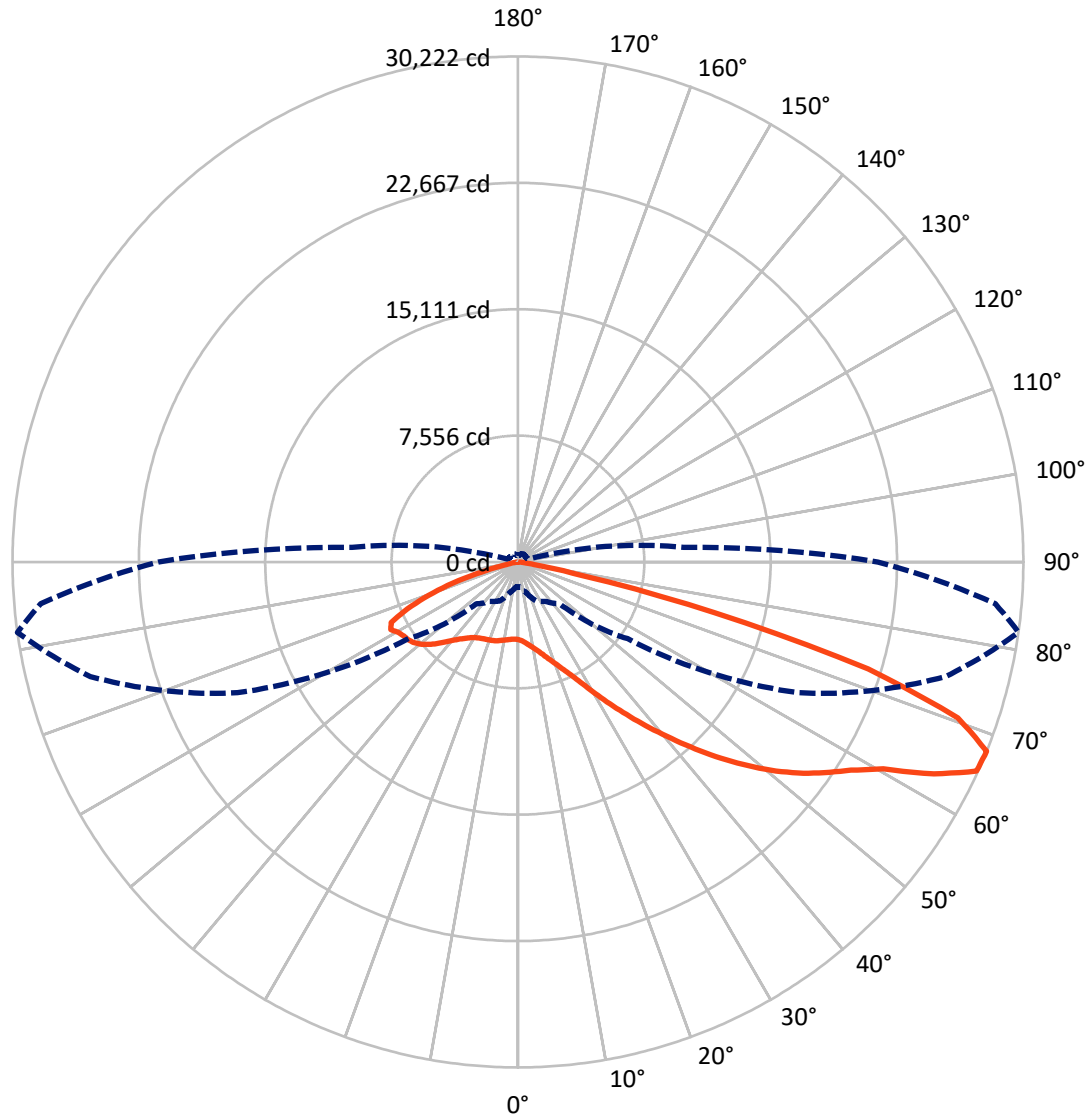
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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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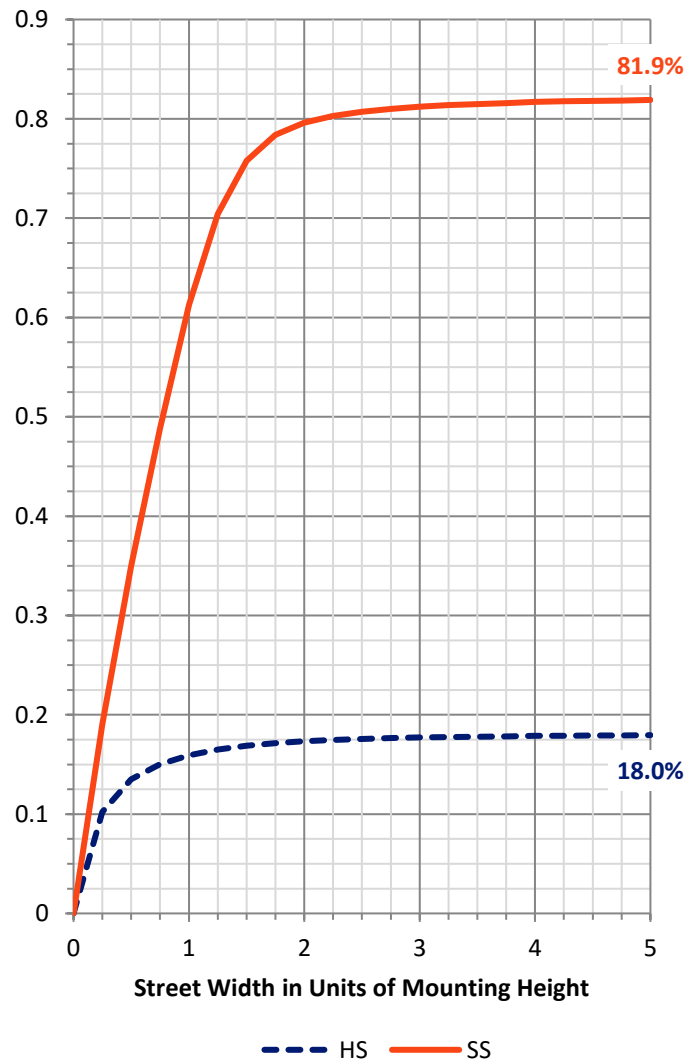
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5073.2	0.0	5073.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	22933.8	0.0	22933.8
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	28007.0	0.0	28007.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.4	1.5
10°-20°	1074.2	3.8
20°-30°	1720.5	6.1
30°-40°	3042.4	10.9
40°-50°	5330.6	19.0
50°-60°	7109.5	25.4
60°-70°	6618.6	23.6
70°-80°	2540.2	9.1
80°-90°	157.8	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°	28007.0	100.0
0°-180°	28007.0	100.0



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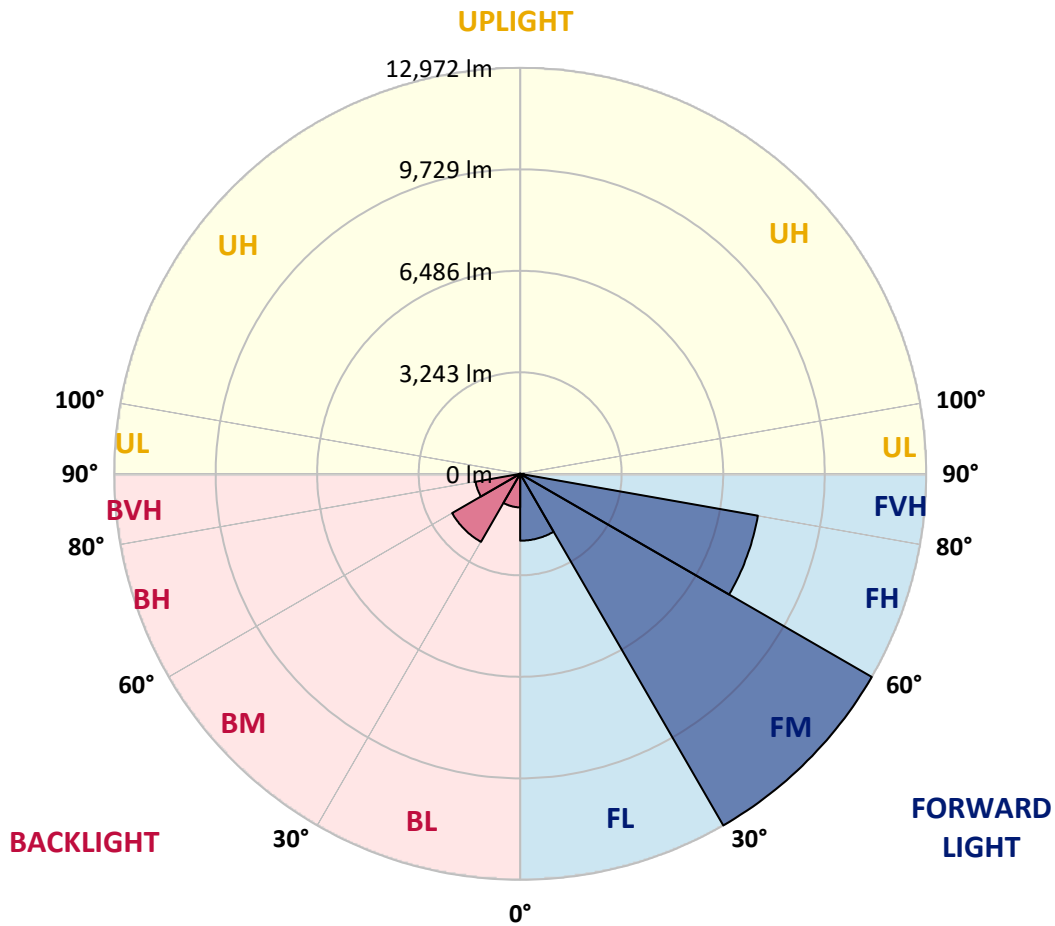
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2136.6	7.6			
FM (30°-60°)	12971.7	46.3			
FH (60°-80°)	7710.8	27.5			G4/12000
FVH (80°-90°)	114.7	0.4			G2/225
BL (0°-30°)	1071.5	3.8	B3/2500		
BM (30°-60°)	2510.7	9.0	B3/5000		
BH (60°-80°)	1448.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	43.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4639.8	4639.8	4639.8	4639.8	4639.8	4639.8	4639.8	4639.8	4639.8	4639.8	4639.8
2.5°	4904.0	4932.2	4916.1	4908.0	4893.9	4873.7	4857.6	4807.2	4754.7	4720.5	4708.4
5°	5002.8	5031.0	5029.0	5037.0	5047.1	5053.2	5049.1	4992.7	4918.1	4859.6	4825.3
7.5°	4918.1	4950.3	4976.6	5016.9	5087.5	5162.1	5198.4	5186.3	5109.6	5029.0	4986.6
10°	4678.1	4712.4	4774.9	4869.7	5018.9	5180.2	5315.3	5377.8	5329.4	5240.7	5182.2
12.5°	4238.5	4272.8	4395.8	4601.5	4851.5	5131.8	5389.9	5557.3	5569.4	5480.7	5412.1
15°	3744.5	3778.8	3909.9	4168.0	4549.1	4998.7	5430.3	5746.8	5853.7	5777.1	5694.4
17.5°	3438.0	3468.3	3567.1	3774.8	4172.0	4732.6	5416.1	5948.5	6192.5	6132.0	6033.2
20°	3345.3	3371.5	3417.9	3563.0	3893.7	4456.3	5323.4	6138.0	6557.4	6523.2	6412.3
22.5°	3444.1	3468.3	3482.4	3546.9	3754.6	4274.8	5206.4	6331.6	6980.9	6984.9	6849.8
25°	3671.9	3696.1	3680.0	3720.3	3811.1	4218.4	5162.1	6559.5	7513.2	7557.6	7404.3
27.5°	4047.0	4049.0	4010.7	4008.7	4022.8	4303.1	5208.4	6803.4	8184.7	8267.4	8077.8
30°	4799.1	4768.9	4621.7	4462.4	4389.8	4557.1	5337.5	7091.8	8977.2	9124.4	8886.4
32.5°	5958.6	5914.2	5644.0	5262.9	4879.8	4966.5	5569.4	7420.5	9840.2	10106.4	9816.0
35°	7216.8	7204.7	6922.4	6355.8	5686.3	5549.2	5946.5	7852.0	10781.9	11205.3	10860.5
37.5°	8386.3	8380.3	8219.0	7551.5	6736.9	6361.8	6551.4	8416.6	11790.1	12403.1	11995.8
40°	9455.1	9473.2	9311.9	8715.0	7894.3	7404.3	7374.1	9114.3	12911.2	13707.7	13223.8
42.5°	10378.6	10398.7	10235.4	9793.8	9037.7	8557.7	8384.3	9969.2	14006.1	15109.1	14536.5
45°	11005.7	11130.7	11106.5	10753.6	10211.2	9713.2	9598.2	11042.0	15254.3	16595.2	15923.8
47.5°	11183.1	11298.1	11479.6	11527.9	11197.3	10707.3	10844.4	12334.5	16516.6	18083.4	17319.1
50°	10745.6	10852.4	11229.5	11731.6	11961.5	11810.2	12056.3	13719.8	17809.1	19567.5	18688.3
52.5°	9882.5	9991.4	10467.3	11261.8	12199.4	12675.3	13272.2	15084.9	19061.3	20972.9	19984.9
55°	8634.4	8749.3	9360.3	10259.6	11745.7	13032.2	14286.4	16448.0	20208.7	22237.2	21154.4
57.5°	6936.5	7021.2	7656.4	8914.6	10604.4	12677.3	15034.5	17936.2	21289.5	23479.3	22313.8
60°	4520.8	4595.5	5333.5	6736.9	8713.0	11491.7	15183.7	19595.7	22725.2	25094.5	23876.6
62.5°	3006.5	3056.9	3494.5	4524.9	6136.0	9215.1	14310.6	20920.5	24830.4	27905.4	26556.4
65°	2062.8	2113.2	2550.8	3268.6	3964.3	6095.7	11800.2	20745.1	26737.9	30137.6	28542.6
67.5°	1472.0	1514.3	1885.4	2562.9	2869.4	3540.9	7999.2	18502.8	26463.7	30222.3	28649.5
70°	1054.6	1078.8	1385.3	1996.3	2280.6	2127.3	4448.3	14151.3	23170.8	27907.4	26467.7
72.5°	738.0	746.1	961.8	1520.4	1837.0	1552.7	2117.3	9434.9	17524.8	21904.5	20519.2
75°	500.1	510.2	647.3	1115.1	1474.0	1185.7	1121.1	5059.2	10287.8	12124.8	10868.6
77.5°	306.5	310.5	417.4	762.2	1103.0	903.4	721.9	2143.5	3980.4	3907.8	3331.1
80°	173.4	173.4	266.2	473.9	752.1	582.7	506.1	911.4	1260.3	1107.0	976.0
82.5°	96.8	98.8	193.6	294.4	498.1	344.8	278.3	421.4	544.4	481.9	419.4
85°	40.3	44.4	119.0	139.1	237.9	171.4	112.9	177.4	201.6	179.5	131.1
87.5°	4.0	6.0	36.3	26.2	28.2	34.3	16.1	34.3	28.2	28.2	20.2
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°	4639.8	4639.8	4639.8	4639.8	4639.8	4639.8	4639.8	4639.8	4639.8	4639.8	4639.8
2.5°	4670.1	4639.8	4563.2	4474.5	4357.5	4301.1	4224.4	4172.0	4127.6	4131.7	4091.3
5°	4760.8	4684.2	4512.8	4299.0	4032.9	3843.3	3641.7	3502.5	3389.6	3365.4	3311.0
7.5°	4885.8	4764.8	4464.4	4079.2	3629.6	3288.8	2984.3	2788.7	2649.6	2605.2	2560.9
10°	5047.1	4871.7	4401.9	3803.0	3155.7	2722.2	2395.5	2242.3	2147.5	2115.2	2091.0
12.5°	5234.7	4994.7	4319.2	3466.2	2667.7	2250.3	2042.6	1966.0	1935.8	1925.7	1919.6
15°	5470.6	5148.0	4194.2	3067.0	2254.4	1962.0	1873.3	1863.2	1867.2	1863.2	1861.2
17.5°	5750.9	5315.3	3990.5	2655.6	1976.1	1814.8	1782.5	1790.6	1800.7	1798.7	1794.6
20°	6057.4	5480.7	3730.4	2290.7	1786.6	1709.9	1691.8	1699.9	1707.9	1703.9	1701.9
22.5°	6406.2	5658.1	3442.1	2006.4	1659.5	1613.1	1593.0	1595.0	1595.0	1586.9	1582.9
25°	6823.6	5853.7	3139.6	1804.7	1562.7	1526.4	1502.2	1494.2	1482.1	1457.9	1453.8
27.5°	7321.7	6061.4	2849.2	1663.6	1486.1	1451.8	1423.6	1403.4	1373.2	1332.9	1328.8
30°	7882.2	6313.5	2603.2	1574.8	1425.6	1391.3	1359.1	1328.8	1284.5	1234.1	1230.0
32.5°	8541.6	6583.7	2423.8	1516.4	1371.2	1334.9	1296.6	1260.3	1211.9	1161.5	1163.5
35°	9328.0	6910.3	2318.9	1476.0	1328.8	1280.4	1238.1	1197.8	1161.5	1117.1	1113.1
37.5°	10181.0	7257.1	2286.6	1455.9	1300.6	1226.0	1177.6	1149.4	1145.3	1119.1	1117.1
40°	11114.6	7668.5	2310.8	1443.8	1270.4	1173.6	1121.1	1115.1	1125.2	1078.8	1080.8
42.5°	12102.6	8156.5	2351.2	1429.7	1228.0	1121.1	1070.7	1070.7	1062.7	998.1	998.1
45°	13171.3	8719.1	2391.5	1395.4	1177.6	1068.7	1030.4	1016.3	982.0	919.5	917.5
47.5°	14248.1	9291.7	2421.7	1332.9	1117.1	1024.3	990.1	957.8	907.4	850.9	848.9
50°	15270.4	9805.9	2389.5	1240.1	1048.5	982.0	945.7	901.3	846.9	808.6	802.5
52.5°	16183.9	10251.5	2252.4	1131.2	976.0	937.6	905.4	859.0	814.6	774.3	770.3
55°	16978.4	10612.5	2010.4	1028.4	911.4	899.3	867.1	808.6	748.1	713.8	709.8
57.5°	17740.6	10886.7	1707.9	943.7	853.0	857.0	808.6	756.2	699.7	663.4	659.4
60°	18754.8	11253.7	1401.4	865.0	790.4	802.5	750.1	711.8	641.2	594.8	588.8
62.5°	20376.1	11824.4	1113.1	768.3	717.9	721.9	699.7	653.3	568.6	514.2	510.2
65°	21662.5	11614.7	877.1	663.4	635.2	641.2	641.2	590.8	500.1	437.6	431.5
67.5°	21517.4	9945.0	699.7	560.6	556.5	560.6	574.7	532.3	443.6	393.2	385.1
70°	19821.5	7910.5	560.6	465.8	483.9	473.9	514.2	486.0	399.3	348.8	342.8
72.5°	16173.8	5698.4	427.5	385.1	371.0	387.2	463.8	437.6	332.7	276.3	270.2
75°	9451.0	3040.8	318.6	304.5	268.2	322.6	411.4	373.0	254.1	203.7	197.6
77.5°	3077.1	1060.6	233.9	223.8	199.6	260.1	350.9	314.6	207.7	161.3	155.3
80°	824.7	320.6	159.3	147.2	129.1	193.6	278.3	250.0	149.2	104.9	102.8
82.5°	330.7	135.1	92.8	82.7	70.6	133.1	219.8	201.6	110.9	66.5	66.5
85°	106.9	44.4	34.3	26.2	32.3	82.7	131.1	137.1	78.6	34.3	26.2
87.5°	14.1	6.0	6.0	8.1	6.0	14.1	40.3	38.3	22.2	4.0	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)