

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: P970799

Luminaire Tested: **NAV-SB6C-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-722-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32558.1 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

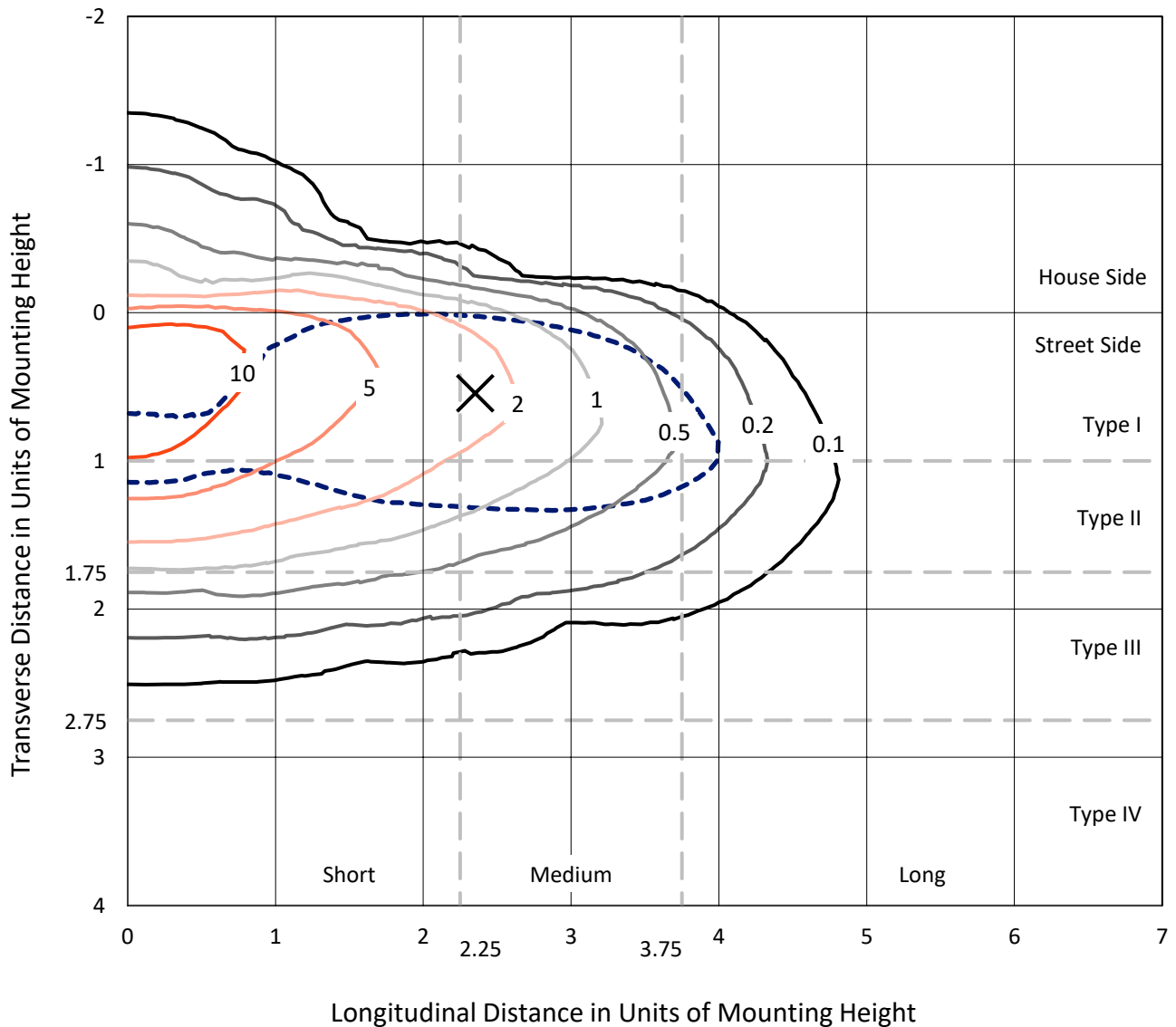
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P970799
 CATALOG NUMBER: NAV-SB6C-722-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

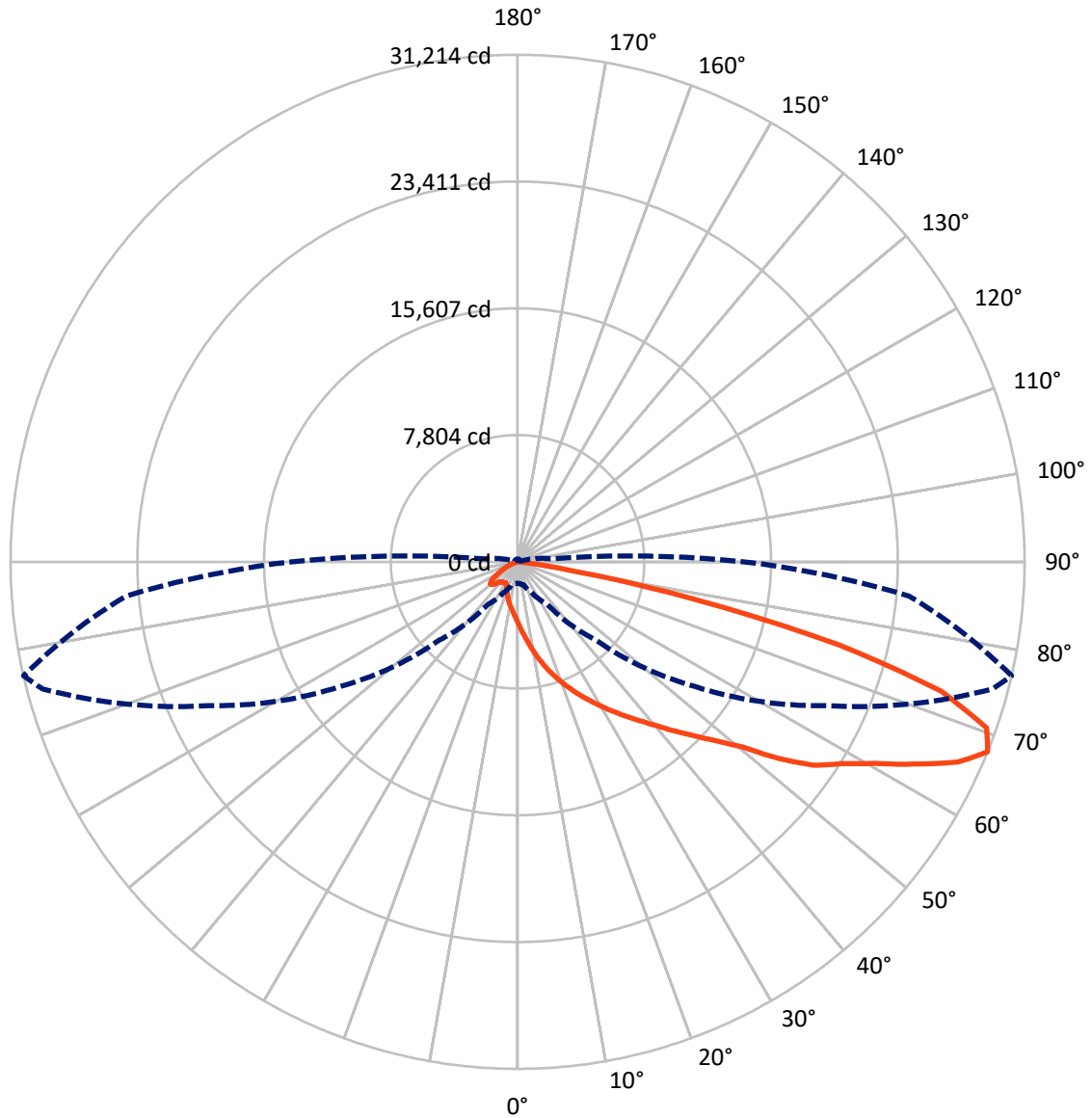
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Medium - N/A

REPORT NUMBER: P970799
CATALOG NUMBER: NAV-SB6C-722-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P970799
 CATALOG NUMBER: NAV-SB6C-722-U-T2R-HSS

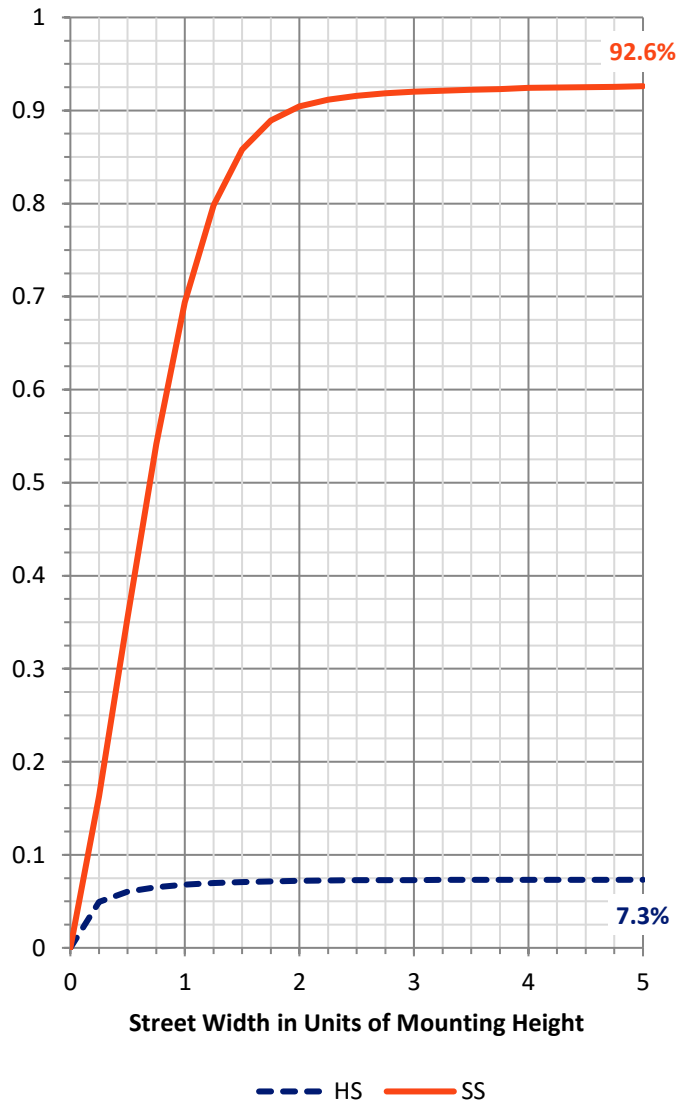
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2395.3	0.0	2395.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	30162.8	0.0	30162.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	32558.1	0.0	32558.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.2	1.2
10°-20°	1341.9	4.1
20°-30°	2589.5	8.0
30°-40°	4495.6	13.8
40°-50°	6527.4	20.0
50°-60°	7495.9	23.0
60°-70°	6507.8	20.0
70°-80°	3065.2	9.4
80°-90°	151.6	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°	32558.1	100.0
0°-180°	32558.1	100.0

Coefficient of Utilization

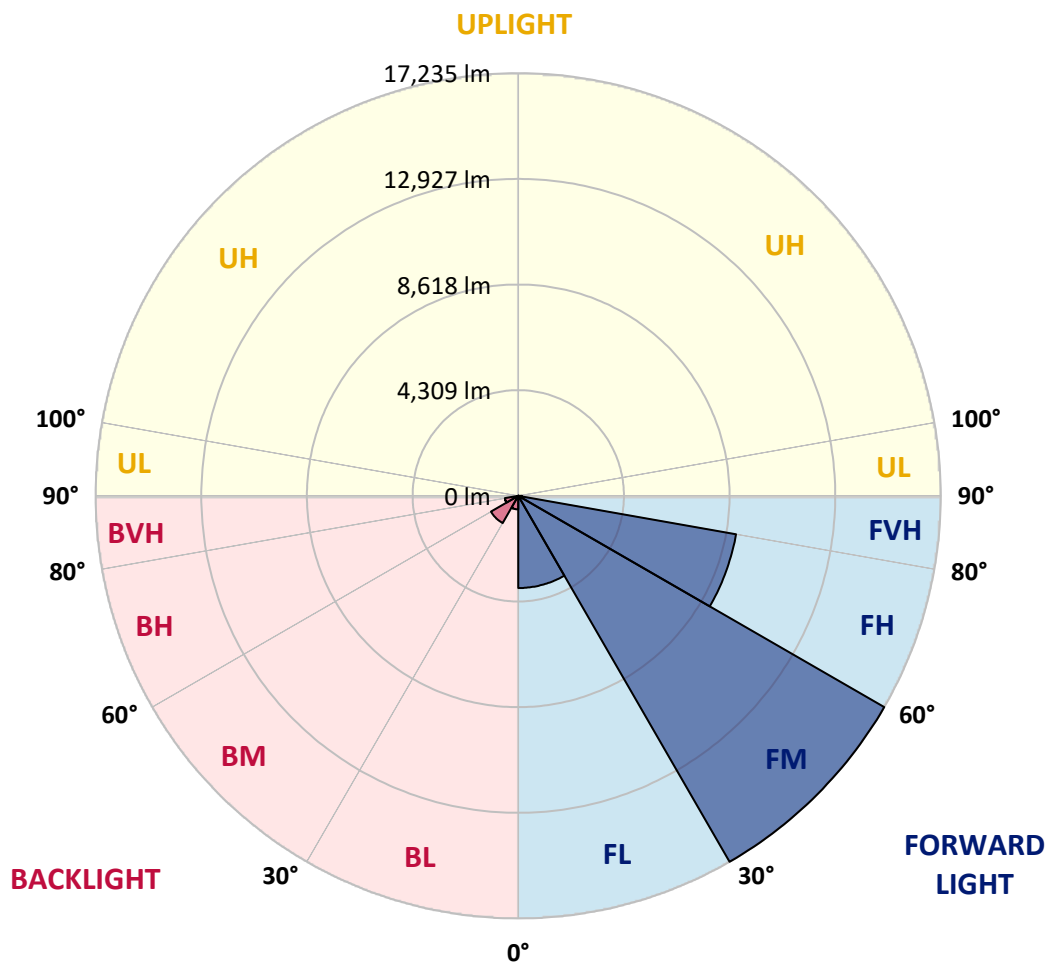


REPORT NUMBER: P970799
 CATALOG NUMBER: NAV-SB6C-722-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3760.1	11.5			
FM (30°-60°)	17235.4	52.9			
FH (60°-80°)	9018.5	27.7			G4/12000
FVH (80°-90°)	148.8	0.5			G2/225
BL (0°-30°)	554.5	1.7	B2/1000		
BM (30°-60°)	1283.4	3.9	B2/2500		
BH (60°-80°)	554.5	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Medium



REPORT NUMBER: P970799
 CATALOG NUMBER: NAV-SB6C-722-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5
2.5°	5198.0	5230.4	5183.8	5094.9	4961.4	4874.5	4662.2	4462.0	4239.6	4168.9	3946.5
5°	6336.2	6364.5	6312.0	6214.9	6037.0	5867.2	5588.2	5169.7	4735.0	4595.5	4201.3
7.5°	7179.3	7195.5	7175.3	7086.3	6916.5	6724.4	6413.0	5917.7	5272.8	5119.2	4514.6
10°	7785.8	7838.4	7832.3	7798.0	7684.7	7529.0	7197.6	6633.4	5875.3	5677.2	4868.4
12.5°	8188.2	8246.8	8281.2	8358.0	8351.9	8252.9	7961.7	7365.3	6475.7	6243.3	5266.8
15°	8305.5	8368.1	8499.5	8677.4	8835.1	8885.7	8681.4	8083.0	7136.9	6839.6	5675.1
17.5°	8238.7	8335.7	8493.5	8774.5	9120.2	9348.6	9326.5	8776.5	7737.3	7397.6	6075.4
20°	8386.3	8479.3	8602.6	8839.2	9241.5	9656.0	9821.8	9439.6	8333.8	7977.9	6495.9
22.5°	9203.1	9187.0	9199.1	9237.5	9478.1	9888.5	10230.1	10042.1	8924.1	8560.2	6940.8
25°	10497.0	10424.2	10300.9	10092.7	10032.0	10230.1	10586.0	10575.8	9546.8	9156.6	7395.7
27.5°	11981.0	11968.9	11679.8	11178.3	10895.3	10818.5	10988.3	11095.5	10163.5	9746.9	7852.5
30°	13402.3	13434.7	13044.5	12486.4	11966.9	11665.6	11512.0	11588.8	10790.2	10383.8	8323.6
32.5°	14639.7	14674.0	14249.4	13596.4	12953.4	12589.6	12266.1	12076.0	11473.5	11030.7	8841.2
35°	15684.9	15719.3	15232.0	14510.2	13824.9	13495.4	13129.3	12609.8	12160.9	11748.6	9417.4
37.5°	16618.9	16608.8	15955.8	15228.0	14554.7	14293.9	14101.8	13266.9	12868.6	12470.3	10056.3
40°	17170.9	17213.3	16655.3	15852.6	15199.6	15009.6	14997.5	14081.7	13685.4	13299.2	10755.8
42.5°	17332.6	17407.5	17003.1	16344.0	15751.6	15545.4	15862.8	14963.2	14635.6	14259.6	11546.3
45°	17041.5	17114.3	16930.3	16473.4	16127.7	15994.2	16606.8	15876.9	15650.5	15278.5	12438.0
47.5°	16192.3	16283.4	16327.8	16230.8	16226.8	16362.2	17274.0	16839.3	16855.5	16475.4	13471.1
50°	14548.6	14702.3	15110.8	15454.4	15986.1	16653.3	17922.9	17882.6	18214.1	17886.6	14817.6
52.5°	11560.5	11778.8	13186.0	14126.1	15321.0	16598.7	18636.7	19556.6	20597.8	20118.6	16716.0
55°	9290.0	9290.0	10434.4	12193.3	14023.0	16238.9	18948.0	20644.3	22221.3	22108.0	18052.4
57.5°	7573.5	7664.5	8394.3	9949.2	12144.8	15381.7	19140.1	21327.7	23529.4	23446.5	19358.5
60°	4674.3	4870.5	6249.3	7783.8	10007.8	13855.2	19018.8	22019.0	25116.5	25183.1	20931.4
62.5°	2632.3	2705.1	3319.8	5600.3	7781.8	11803.1	18090.8	22405.3	27146.3	27429.3	22552.9
65°	1817.5	1853.9	2090.5	3485.5	5394.1	9397.2	16277.3	22164.7	29180.2	29752.4	23927.7
67.5°	1320.2	1338.4	1486.0	2128.9	3200.5	6813.4	13434.7	20951.6	30257.8	31214.1	24190.5
70°	1015.0	1027.0	1134.2	1399.0	1890.3	4205.3	9757.1	18539.6	29477.5	30619.7	22844.0
72.5°	824.9	837.0	919.9	1035.1	1253.5	2486.8	5913.6	15056.1	26032.3	27265.6	19447.4
75°	695.5	711.7	786.5	861.3	982.6	1597.2	2773.9	10484.9	19576.8	20385.5	13523.6
77.5°	386.1	355.9	638.9	713.7	828.9	1010.9	1298.0	6170.4	10964.0	11188.5	6000.7
80°	240.6	248.7	507.5	574.2	636.8	509.5	594.4	2375.5	3800.9	3610.9	1162.6
82.5°	14.1	32.4	390.2	414.5	436.8	218.3	224.4	806.7	915.8	841.0	206.2
85°	0.0	0.0	177.9	143.5	151.6	62.6	64.7	188.0	123.3	133.5	40.4
87.5°	0.0	0.0	0.0	4.0	0.0	6.0	12.1	16.2	6.0	8.1	14.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P970799
 CATALOG NUMBER: NAV-SB6C-722-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5
2.5°	3805.0	3663.5	3376.4	3095.3	2866.8	2654.5	2502.9	2359.4	2286.7	2282.6	2278.6
5°	3920.2	3623.0	3048.9	2541.4	2132.9	1805.4	1593.2	1441.6	1364.7	1338.4	1334.3
7.5°	4082.0	3635.2	2761.8	2056.1	1574.9	1294.0	1172.6	1124.1	1107.9	1089.8	1085.7
10°	4286.1	3663.5	2505.0	1655.8	1241.4	1099.8	1051.3	1031.1	1019.0	1006.9	1002.8
12.5°	4514.6	3689.7	2250.2	1374.8	1091.7	1019.0	984.6	960.3	944.1	930.0	926.0
15°	4737.0	3705.9	1985.4	1178.6	1015.0	956.3	919.9	893.6	871.4	855.3	853.2
17.5°	4957.4	3728.1	1736.7	1061.4	952.2	893.6	857.2	824.9	806.7	788.5	786.5
20°	5202.0	3724.1	1502.1	978.6	889.6	831.0	792.5	762.2	744.0	723.8	721.8
22.5°	5428.5	3703.8	1295.9	907.7	824.9	768.2	725.8	695.5	677.3	661.1	659.1
25°	5689.3	3687.7	1124.1	843.1	764.2	707.7	661.1	632.8	612.6	598.4	596.4
27.5°	5940.0	3663.5	998.8	784.4	705.6	651.0	606.5	574.2	556.0	545.9	545.9
30°	6186.6	3657.4	952.2	727.9	653.0	598.4	554.0	523.7	509.5	505.4	503.4
32.5°	6483.8	3673.6	972.5	707.7	604.5	549.9	507.5	485.2	471.1	471.1	471.1
35°	6801.3	3669.5	1002.8	725.8	572.2	501.4	469.0	454.9	440.7	440.7	440.7
37.5°	7199.5	3675.5	1027.0	756.1	560.1	460.9	442.8	424.6	416.5	416.5	416.5
40°	7793.9	3875.7	1015.0	782.4	556.0	432.7	396.3	390.2	384.2	384.2	384.2
42.5°	8521.7	4310.4	1031.1	784.4	554.0	412.5	363.9	376.1	361.9	359.9	357.8
45°	9318.4	4785.5	1134.2	742.0	552.0	402.3	347.8	361.9	339.7	339.7	339.7
47.5°	10108.9	5256.6	1239.3	681.3	545.9	400.3	333.6	325.5	319.4	321.4	321.4
50°	11198.5	5640.8	1279.8	598.4	531.8	396.3	307.3	309.3	305.2	309.3	309.3
52.5°	12385.4	5721.7	1231.2	505.4	491.3	384.2	289.2	297.2	295.2	299.2	299.2
55°	13125.3	5634.6	1016.9	420.6	428.7	335.6	270.9	287.1	287.1	287.1	287.1
57.5°	13889.6	5264.7	721.8	341.6	355.9	275.0	254.7	277.0	275.0	273.0	273.0
60°	14439.5	4666.2	475.1	281.1	283.0	226.4	236.6	260.8	258.8	248.7	248.7
62.5°	14849.9	4005.1	305.2	238.6	216.4	204.2	216.4	236.6	228.5	206.2	202.1
65°	14803.4	3089.2	234.5	204.2	177.9	177.9	188.0	206.2	181.9	145.5	141.6
67.5°	13940.1	2090.5	194.1	171.9	149.6	147.6	155.7	171.9	155.7	123.3	119.3
70°	12397.5	1366.7	155.7	133.5	119.3	109.2	125.4	147.6	131.4	99.1	95.0
72.5°	10062.3	833.0	117.3	97.1	86.9	70.7	99.1	121.3	105.2	72.8	68.8
75°	6510.1	424.6	80.9	62.6	46.5	42.4	72.8	91.0	72.8	44.5	38.4
77.5°	2490.9	177.9	44.5	28.3	24.3	20.2	40.4	54.6	30.3	10.1	8.1
80°	479.2	74.8	22.2	14.1	12.1	8.1	6.0	4.0	0.0	0.0	0.0
82.5°	82.9	24.3	8.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	0.0	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)