

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: P971325

Luminaire Tested: **NAV-SB6D-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971325
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-SB6D-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 900mA 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: 38154.6 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

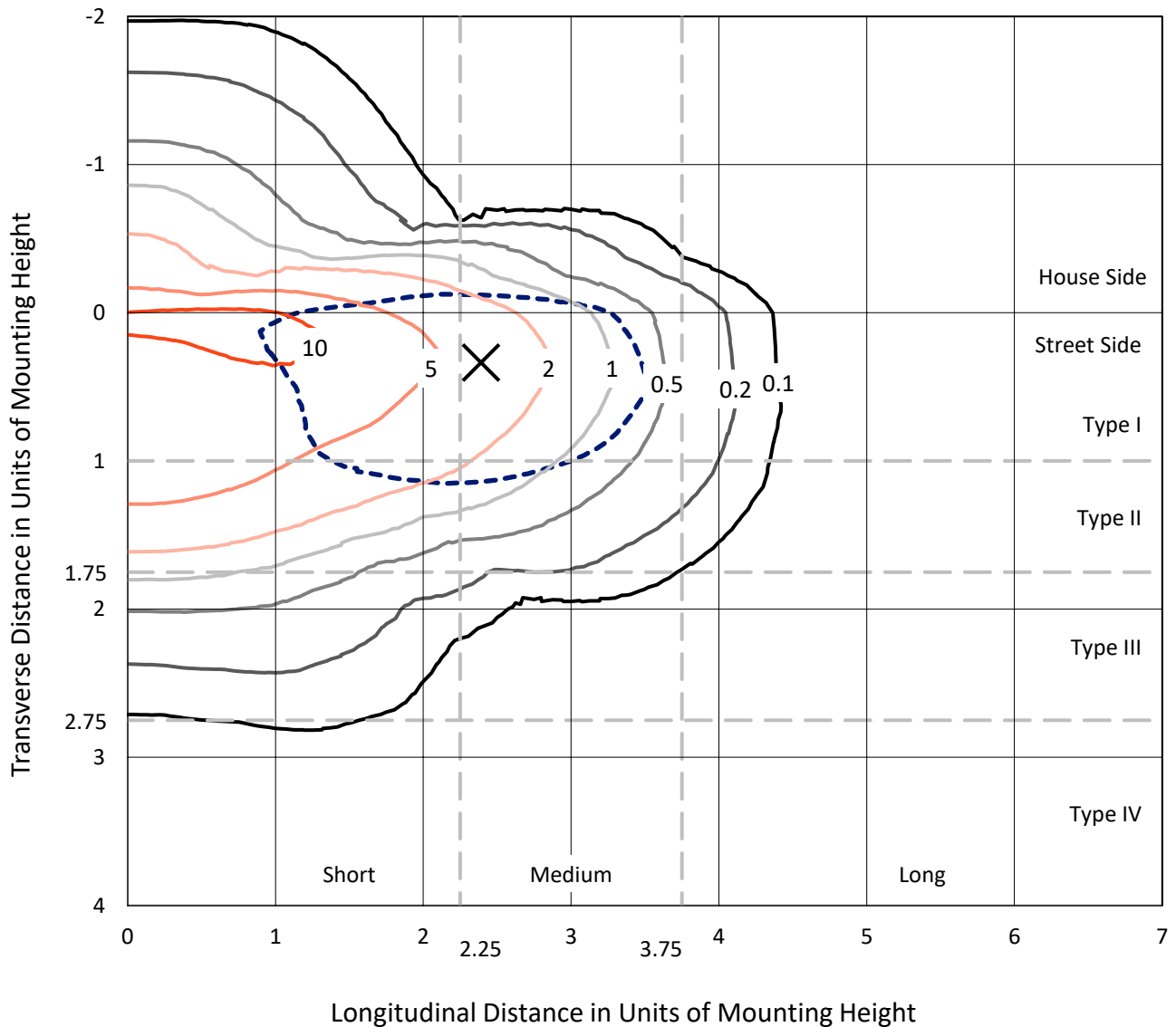
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

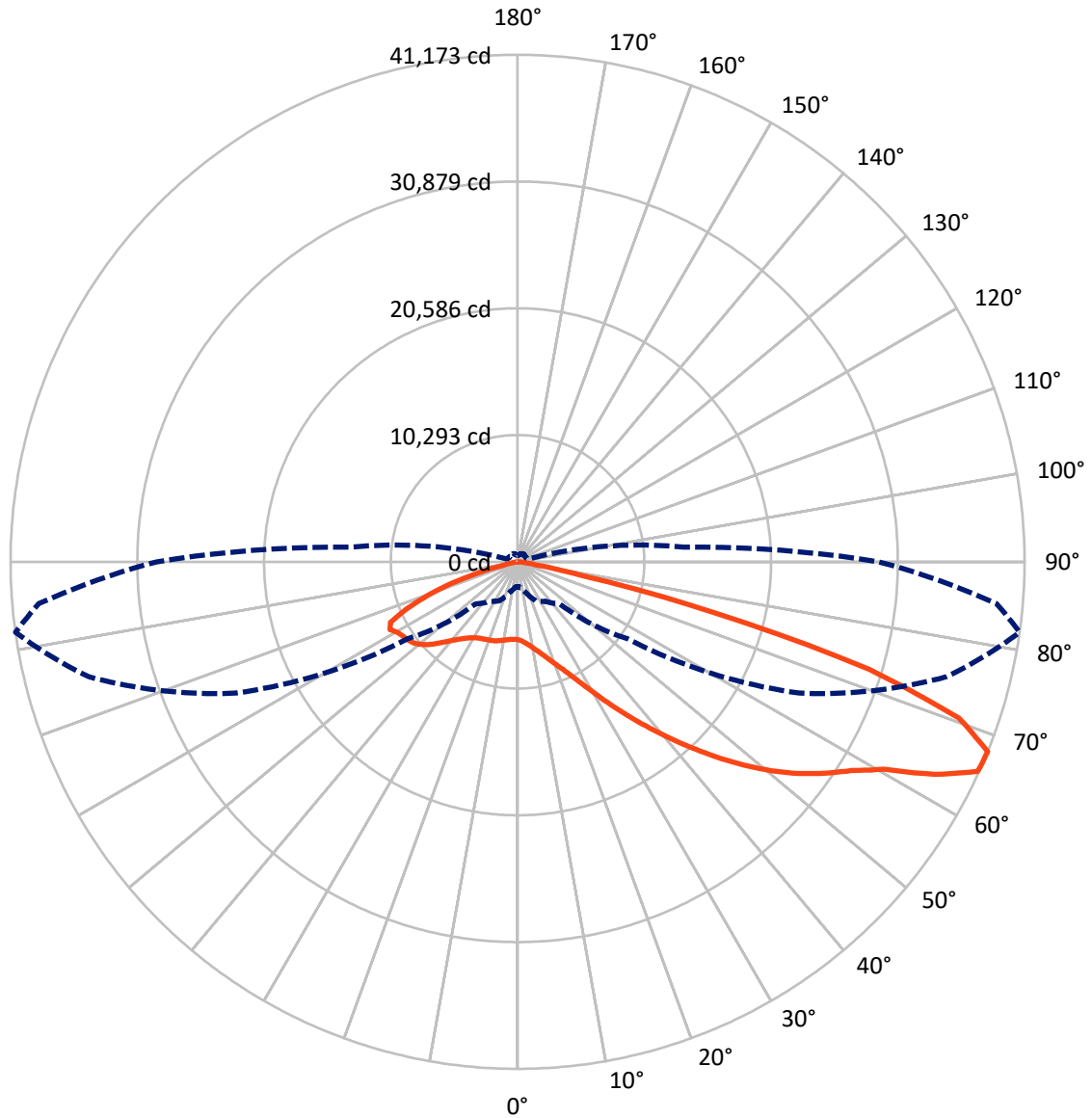
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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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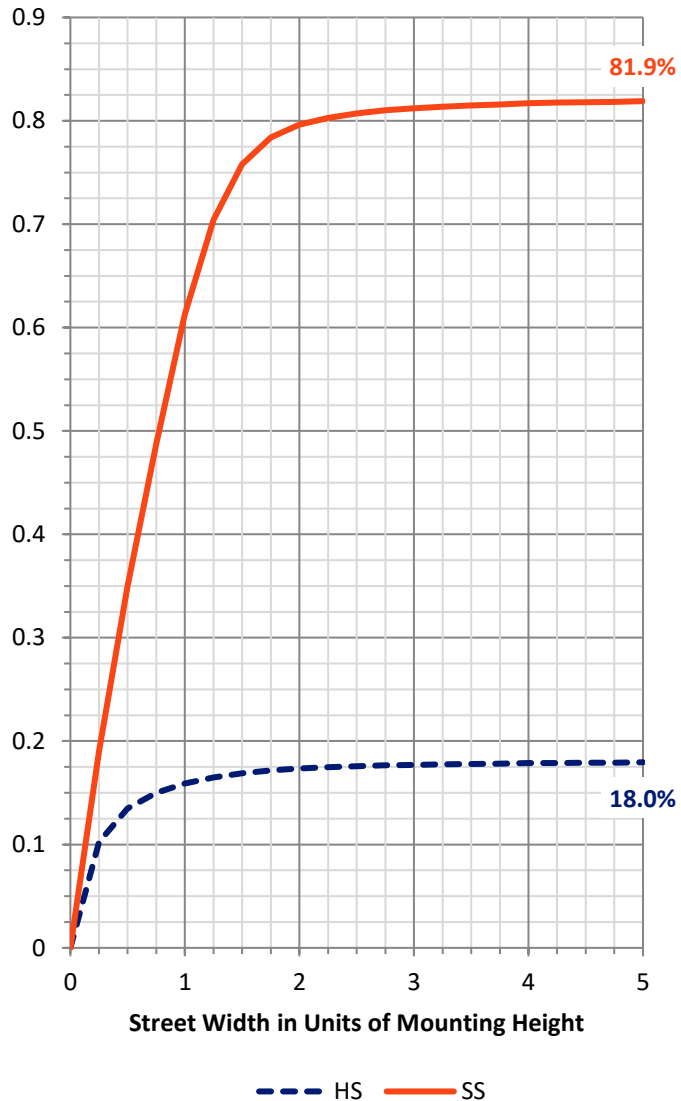
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6911.4	0.0	6911.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	31243.2	0.0	31243.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	38154.6	0.0	38154.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.1	1.5
10°-20°	1463.4	3.8
20°-30°	2343.9	6.1
30°-40°	4144.7	10.9
40°-50°	7261.9	19.0
50°-60°	9685.4	25.4
60°-70°	9016.6	23.6
70°-80°	3460.6	9.1
80°-90°	214.9	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°	38154.6	100.0
0°-180°	38154.6	100.0

Coefficient of Utilization



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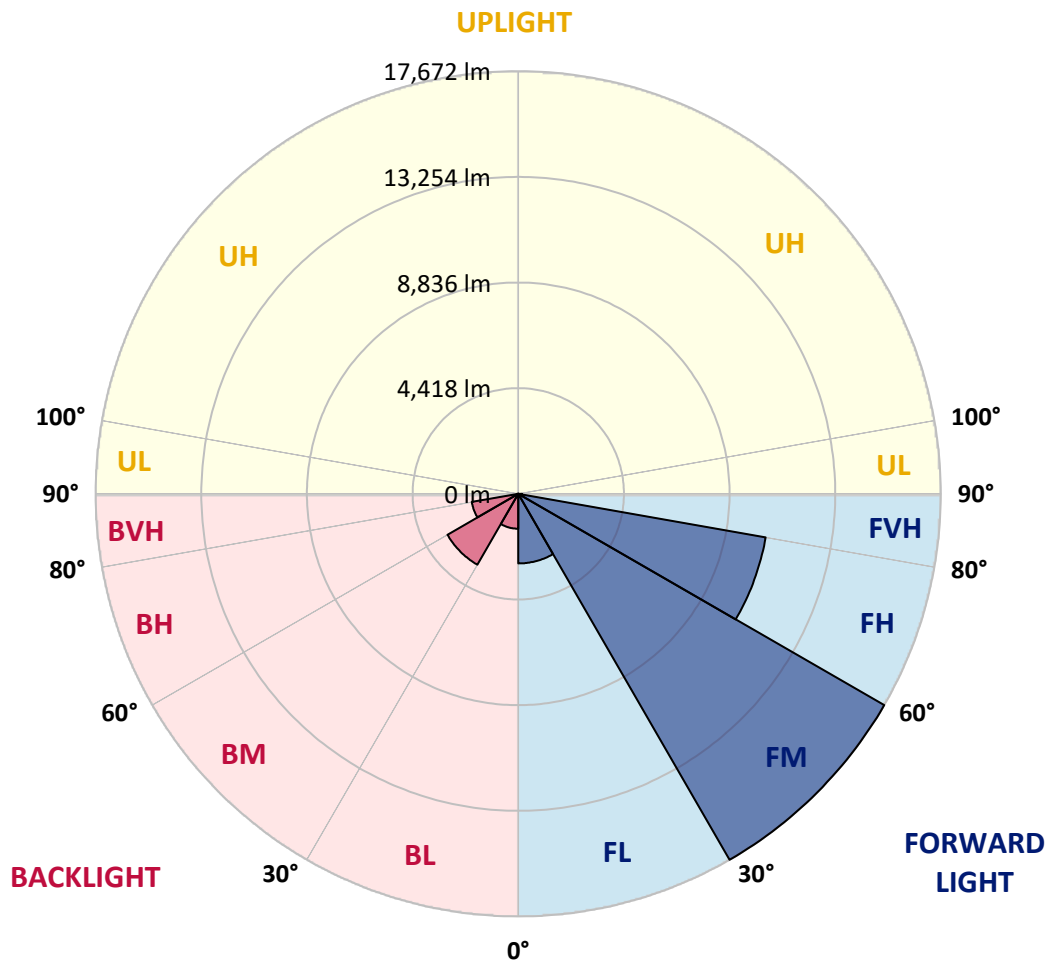
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2910.8	7.6			
FM (30°-60°)	17671.7	46.3			
FH (60°-80°)	10504.5	27.5			G4/12000
FVH (80°-90°)	156.3	0.4			G2/225
BL (0°-30°)	1459.7	3.8	B3/2500		
BM (30°-60°)	3420.4	9.0	B3/5000		
BH (60°-80°)	1972.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	58.7	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°	6321.0	6321.0	6321.0	6321.0	6321.0	6321.0	6321.0	6321.0	6321.0	6321.0	6321.0
2.5°	6680.7	6719.3	6697.2	6686.3	6667.0	6639.5	6617.6	6548.9	6477.5	6430.8	6414.3
5°	6815.4	6853.9	6851.1	6862.1	6875.8	6884.1	6878.6	6801.7	6700.0	6620.4	6573.6
7.5°	6700.0	6744.0	6779.7	6834.6	6930.7	7032.4	7081.8	7065.3	6961.0	6851.1	6793.4
10°	6373.1	6419.8	6505.0	6634.1	6837.4	7057.1	7241.2	7326.3	7260.4	7139.5	7059.9
12.5°	5774.2	5821.0	5988.6	6268.7	6609.4	6991.2	7342.8	7570.9	7587.4	7466.4	7373.0
15°	5101.2	5148.0	5326.5	5678.1	6197.4	6809.9	7397.7	7829.1	7974.6	7870.3	7757.6
17.5°	4683.7	4724.9	4859.5	5142.4	5683.6	6447.2	7378.6	8103.8	8436.2	8353.8	8219.2
20°	4557.4	4593.0	4656.3	4854.0	5304.5	6071.0	7252.2	8361.9	8933.4	8886.6	8735.6
22.5°	4691.9	4724.9	4744.1	4832.1	5115.0	5823.7	7092.8	8625.7	9510.3	9515.7	9331.7
25°	5002.3	5035.3	5013.4	5068.3	5191.9	5746.8	7032.4	8936.1	10235.4	10295.9	10087.1
27.5°	5513.3	5516.0	5463.9	5461.1	5480.4	5862.2	7095.6	9268.5	11150.3	11262.8	11004.6
30°	6538.0	6496.8	6296.2	6079.2	5980.3	6208.3	7271.4	9661.3	12229.8	12430.4	12106.2
32.5°	8117.5	8057.0	7688.9	7169.8	6647.8	6765.9	7587.4	10109.1	13405.6	13768.1	13372.6
35°	9831.6	9815.2	9430.6	8658.7	7746.6	7559.9	8101.0	10697.0	14688.4	15265.2	14795.6
37.5°	11425.0	11416.7	11196.9	10287.6	9177.8	8666.9	8925.1	11466.2	16062.0	16897.0	16342.1
40°	12880.9	12905.6	12685.8	11872.7	10754.6	10087.1	10045.9	12416.6	17589.3	18674.4	18015.1
42.5°	14139.0	14166.4	13944.0	13342.3	12312.2	11658.5	11422.2	13581.4	19080.9	20583.5	19803.4
45°	14993.3	15163.6	15130.6	14649.9	13911.0	13232.4	13075.9	15042.8	20781.4	22608.1	21693.3
47.5°	15235.1	15391.6	15638.8	15704.8	15254.3	14586.8	14773.5	16803.6	22501.0	24635.4	23594.3
50°	14638.9	14784.5	15298.2	15982.2	16295.4	16089.4	16424.5	18690.8	24261.9	26657.2	25459.6
52.5°	13463.2	13611.6	14259.9	15342.2	16619.6	17267.9	18081.0	20550.5	25967.8	28571.9	27225.8
55°	11762.8	11919.4	12751.7	13976.9	16001.5	17754.1	19462.7	22407.5	27530.8	30294.3	28819.1
57.5°	9449.8	9565.2	10430.5	12144.6	14446.7	17270.6	20481.9	24434.9	29003.2	31986.5	30398.7
60°	6158.8	6260.5	7265.9	9177.8	11869.9	15655.3	20685.2	26695.7	30959.1	34186.8	32527.7
62.5°	4095.8	4164.5	4760.6	6164.3	8359.2	12554.0	19495.7	28500.4	33826.9	38016.2	36178.4
65°	2810.2	2878.9	3475.0	4452.9	5400.6	8304.2	16075.7	28261.5	36425.6	41057.2	38884.3
67.5°	2005.3	2063.0	2568.4	3491.5	3909.0	4823.8	10897.5	25206.8	36052.1	41172.5	39029.8
70°	1436.7	1469.6	1887.2	2719.5	3106.9	2898.1	6060.0	19278.7	31566.2	38019.0	36057.6
72.5°	1005.4	1016.4	1310.4	2071.2	2502.5	2115.2	2884.4	12853.4	23874.5	29841.0	27953.8
75°	681.2	694.9	881.8	1519.2	2008.1	1615.3	1527.4	6892.3	14015.3	16517.9	14806.5
77.5°	417.6	423.0	568.7	1038.4	1502.6	1230.7	983.5	2920.1	5422.7	5323.7	4538.1
80°	236.3	236.3	362.6	645.5	1024.7	793.9	689.5	1241.7	1716.9	1508.1	1329.5
82.5°	131.8	134.6	263.7	401.1	678.6	469.8	379.0	574.1	741.7	656.5	571.3
85°	54.9	60.5	162.1	189.5	324.1	233.5	153.9	241.7	274.7	244.5	178.6
87.5°	5.5	8.2	49.4	35.7	38.4	46.7	21.9	46.7	38.4	38.4	27.5
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°	6321.0	6321.0	6321.0	6321.0	6321.0	6321.0	6321.0	6321.0	6321.0	6321.0	6321.0
2.5°	6362.2	6321.0	6216.5	6095.7	5936.4	5859.4	5755.1	5683.6	5623.2	5628.7	5573.7
5°	6485.8	6381.3	6147.8	5856.6	5494.1	5235.8	4961.1	4771.6	4617.7	4584.8	4510.6
7.5°	6656.0	6491.2	6081.9	5557.2	4944.7	4480.4	4065.6	3799.2	3609.6	3549.2	3488.7
10°	6875.8	6636.9	5996.8	5180.9	4299.2	3708.4	3263.5	3054.7	2925.6	2881.7	2848.7
12.5°	7131.3	6804.4	5884.1	4722.2	3634.3	3065.7	2782.8	2678.3	2637.1	2623.4	2615.2
15°	7452.7	7013.2	5713.9	4178.2	3071.2	2672.9	2552.0	2538.3	2543.7	2538.3	2535.5
17.5°	7834.6	7241.2	5436.4	3617.8	2692.1	2472.3	2428.3	2439.4	2453.1	2450.4	2444.8
20°	8252.1	7466.4	5082.1	3120.6	2433.9	2329.5	2304.7	2315.8	2326.8	2321.2	2318.4
22.5°	8727.4	7708.2	4689.2	2733.3	2260.8	2197.6	2170.1	2172.9	2172.9	2161.9	2156.4
25°	9295.9	7974.6	4277.1	2458.6	2128.9	2079.5	2046.5	2035.5	2019.0	1986.1	1980.6
27.5°	9974.5	8257.6	3881.6	2266.3	2024.6	1977.8	1939.4	1911.9	1870.7	1815.8	1810.3
30°	10738.2	8601.0	3546.4	2145.4	1942.2	1895.4	1851.5	1810.3	1749.9	1681.2	1675.7
32.5°	11636.4	8969.1	3301.9	2065.8	1868.0	1818.6	1766.4	1716.9	1651.0	1582.3	1585.1
35°	12707.7	9414.1	3159.0	2010.8	1810.3	1744.3	1686.6	1631.7	1582.3	1521.8	1516.4
37.5°	13869.8	9886.5	3115.2	1983.4	1771.8	1670.2	1604.2	1565.8	1560.4	1524.6	1521.8
40°	15141.6	10447.0	3148.1	1966.9	1730.6	1598.8	1527.4	1519.2	1532.9	1469.6	1472.4
42.5°	16487.7	11111.7	3203.0	1947.6	1672.9	1527.4	1458.7	1458.7	1447.7	1359.8	1359.8
45°	17943.6	11878.2	3258.0	1901.0	1604.2	1455.9	1403.7	1384.5	1337.8	1252.7	1249.9
47.5°	19410.5	12658.3	3299.2	1815.8	1521.8	1395.5	1348.8	1304.8	1236.1	1159.3	1156.5
50°	20803.3	13358.8	3255.2	1689.4	1428.4	1337.8	1288.3	1227.9	1153.7	1101.6	1093.4
52.5°	22047.6	13965.9	3068.4	1541.1	1329.5	1277.4	1233.4	1170.2	1109.8	1054.8	1049.4
55°	23130.0	14457.6	2738.8	1401.0	1241.7	1225.2	1181.2	1101.6	1019.2	972.4	967.0
57.5°	24168.4	14831.2	2326.8	1285.7	1162.0	1167.5	1101.6	1030.1	953.2	903.7	898.3
60°	25550.2	15331.2	1909.2	1178.4	1076.9	1093.4	1021.9	969.8	873.6	810.4	802.2
62.5°	27758.7	16108.6	1516.4	1046.6	978.0	983.5	953.2	890.0	774.7	700.5	694.9
65°	29511.4	15822.9	1194.9	903.7	865.3	873.6	873.6	804.8	681.2	596.1	587.8
67.5°	29313.6	13548.3	953.2	763.6	758.2	763.6	782.9	725.2	604.3	535.7	524.7
70°	27003.3	10776.6	763.6	634.6	659.3	645.5	700.5	662.0	543.9	475.2	467.0
72.5°	22033.9	7763.1	582.4	524.7	505.4	527.5	631.8	596.1	453.3	376.4	368.1
75°	12875.3	4142.5	434.0	414.8	365.3	439.5	560.4	508.2	346.1	277.5	269.2
77.5°	4191.9	1444.9	318.7	304.9	271.9	354.3	478.0	428.6	282.9	219.8	211.6
80°	1123.5	436.8	217.0	200.5	175.8	263.7	379.0	340.6	203.3	142.9	140.1
82.5°	450.5	184.1	126.4	112.6	96.1	181.3	299.4	274.7	151.1	90.6	90.6
85°	145.5	60.5	46.7	35.7	44.0	112.6	178.6	186.8	107.1	46.7	35.7
87.5°	19.3	8.2	8.2	11.0	8.2	19.3	54.9	52.2	30.2	5.5	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)