

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: P971373

Luminaire Tested: **NAV-SB6D-730-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-730-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53929.3 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

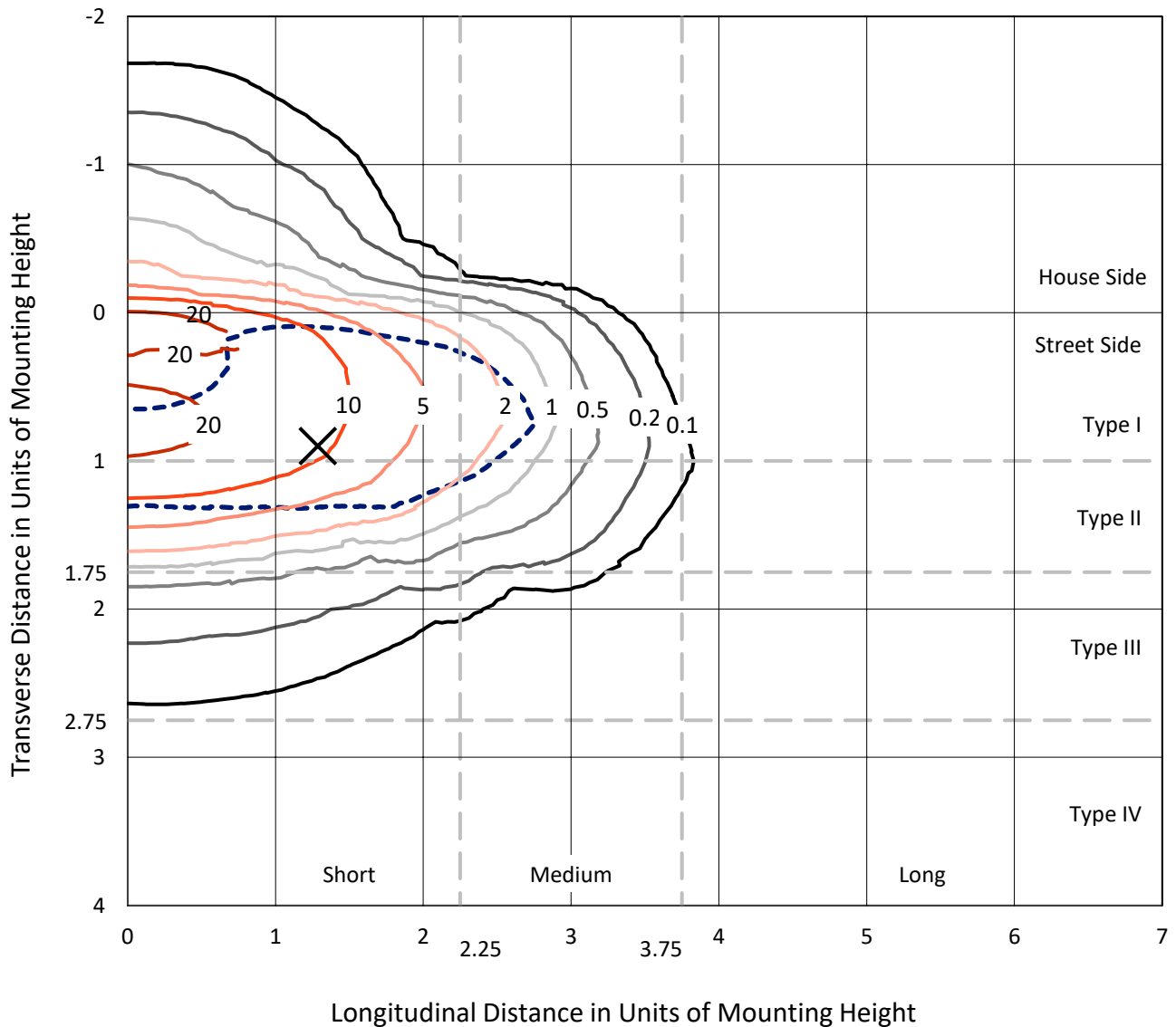
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

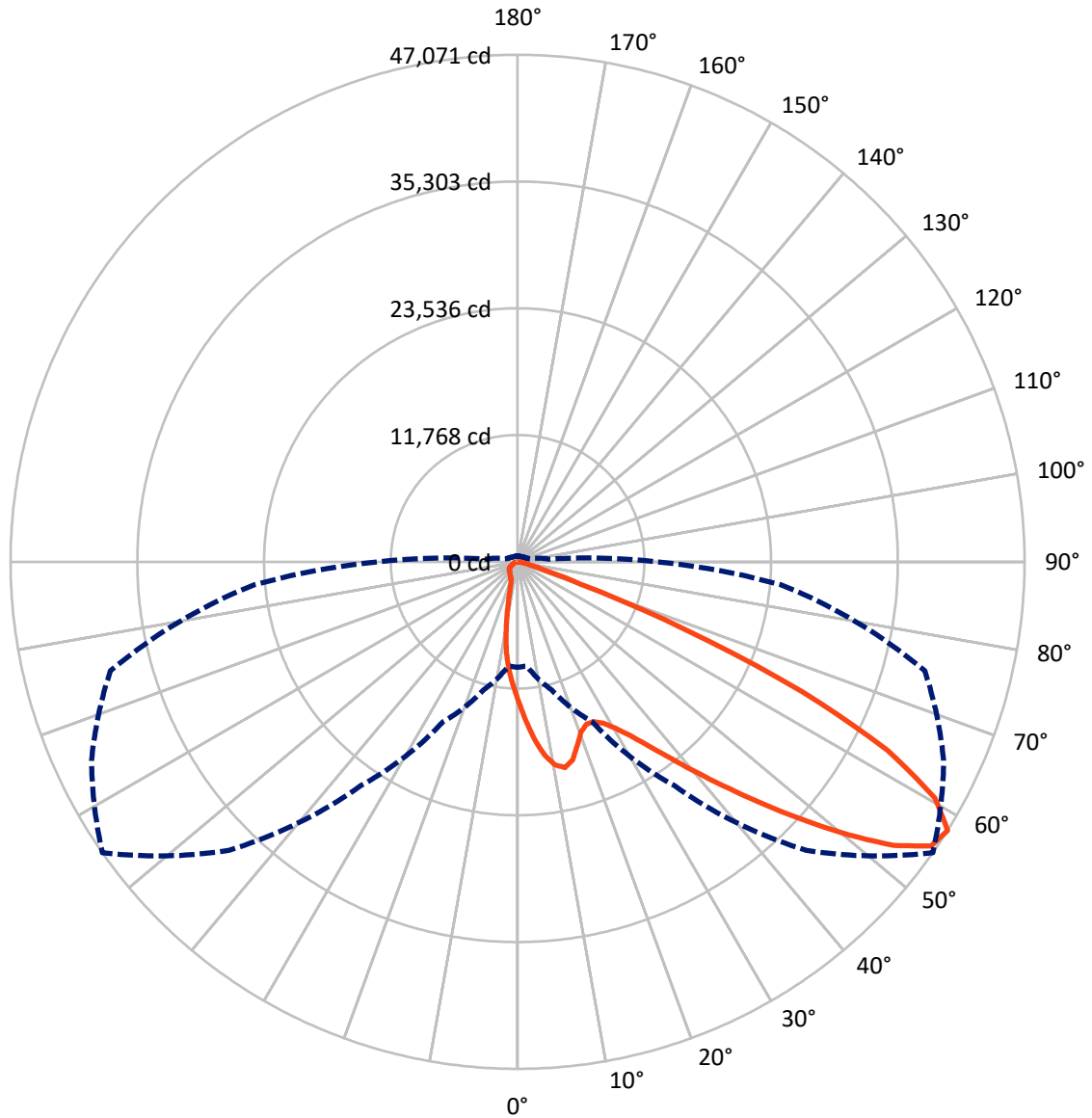
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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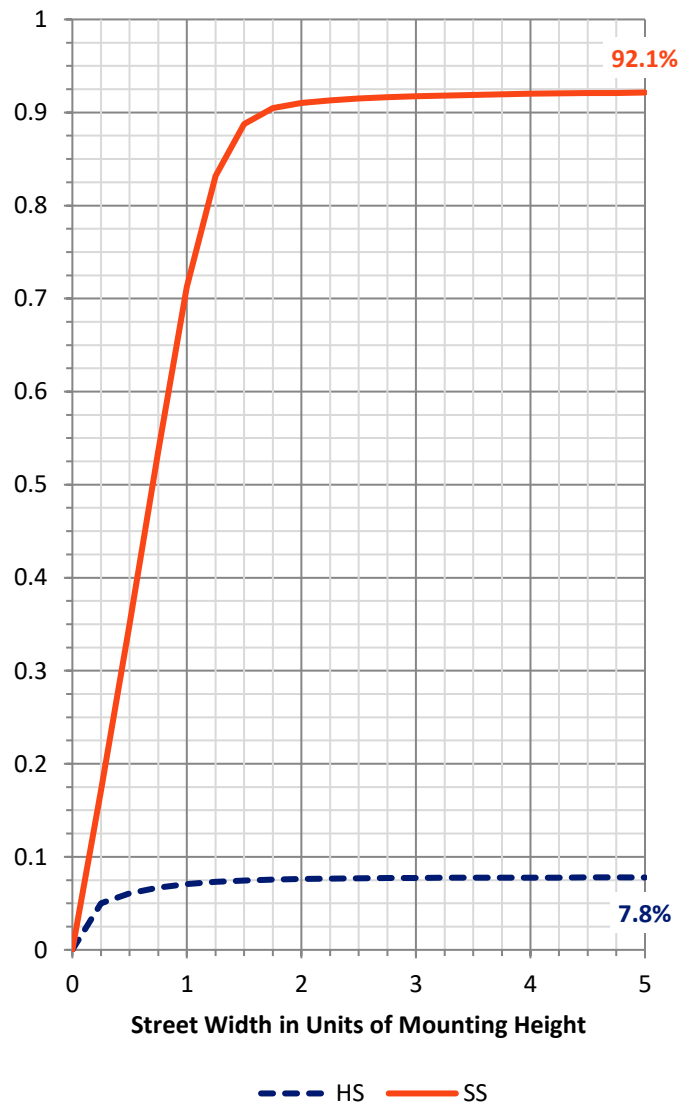
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4211.7	0.0	4211.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	49717.7	0.0	49717.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	53929.3	0.0	53929.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1209.2	2.2
10°-20°	2920.8	5.4
20°-30°	4673.2	8.7
30°-40°	7909.6	14.7
40°-50°	12985.9	24.1
50°-60°	14272.5	26.5
60°-70°	8186.7	15.2
70°-80°	1672.8	3.1
80°-90°	98.7	0.2
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°	53929.3	100.0
0°-180°	53929.3	100.0

Coefficient of Utilization

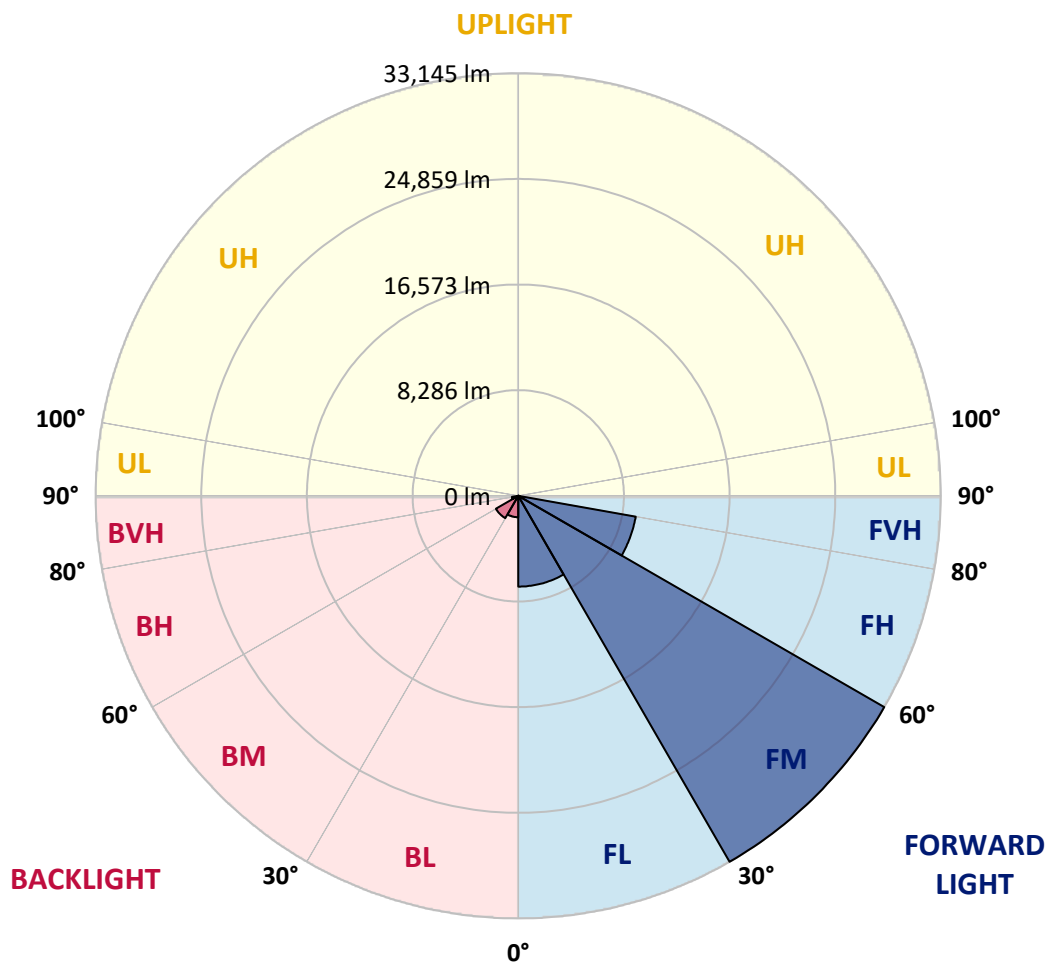


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7121.7	13.2			
FM (30°-60°)	33145.4	61.5			
FH (60°-80°)	9358.6	17.4			G4/12000
FVH (80°-90°)	92.0	0.2			G1/100
BL (0°-30°)	1681.4	3.1	B3/2500		
BM (30°-60°)	2022.7	3.8	B2/2500		
BH (60°-80°)	500.9	0.9	B2/1000		G2/1000
BVH (80°-90°)	6.6	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12995.7	12995.7	12995.7	12995.7	12995.7	12995.7	12995.7	12995.7	12995.7	12995.7	12995.7
2.5°	16124.9	15922.0	15892.1	15852.1	15466.4	15177.1	14758.1	14299.2	13783.8	13258.4	13025.6
5°	18628.9	18469.3	18439.3	18253.1	17814.2	17322.0	16577.1	15636.0	14674.9	13544.4	13058.8
7.5°	19114.4	19084.5	19220.8	19214.1	19154.3	18765.2	18136.7	17016.0	15572.8	13896.8	13145.3
10°	16949.5	17026.1	17431.8	17787.5	18748.6	19307.2	19170.9	18246.4	16497.3	14299.2	13241.8
12.5°	14977.6	14887.8	15177.1	15579.5	16696.8	18359.5	19599.8	19274.0	17554.8	14754.8	13384.8
15°	13740.5	13703.9	13866.9	14053.2	14904.4	16580.4	19101.1	20108.7	18572.3	15293.5	13600.8
17.5°	13344.8	13314.9	13364.8	13411.3	13963.4	15260.2	17913.9	20620.7	19546.6	15908.7	13840.3
20°	13667.4	13627.5	13620.8	13584.2	13813.7	14698.3	16839.8	20657.3	20421.3	16467.3	14046.5
22.5°	14608.5	14561.9	14399.0	14252.6	14272.6	14774.8	16360.9	20291.5	21079.6	16989.5	14176.2
25°	16314.4	16237.9	15898.7	15406.6	15093.9	15306.8	16434.1	19809.4	21708.2	17398.5	14113.0
27.5°	18449.3	18349.6	17913.9	17182.3	16467.3	16208.0	16962.8	19476.8	22230.3	17711.1	13976.6
30°	20541.0	20411.2	19982.3	19413.7	18369.4	17551.5	17917.2	19623.1	22852.1	18036.9	13797.1
32.5°	22798.9	22675.9	22107.2	21402.2	20537.6	19437.0	19224.1	20338.2	23613.6	18492.5	13670.7
35°	25655.4	25462.5	24654.5	23693.5	22775.6	21661.6	20993.2	21571.8	24627.9	19187.5	13740.5
37.5°	28907.7	28648.2	27777.0	26450.2	25253.0	24006.0	23148.1	23267.8	26114.3	20118.6	13956.7
40°	31973.6	31737.6	30932.9	29682.5	28179.4	26666.3	25751.9	25485.8	28166.1	21252.6	14335.8
42.5°	33812.6	33599.8	33260.6	32731.8	31464.9	29921.9	28768.0	28192.7	30593.6	22609.3	14798.0
45°	33915.7	33729.5	34185.1	34800.3	34550.9	33523.3	32116.6	31062.5	33031.1	23883.0	15276.9
47.5°	32266.3	32139.9	33523.3	35671.5	36742.3	37174.6	35877.7	33692.9	35043.0	24797.5	15473.1
50°	27770.3	27723.8	30570.3	34514.3	37577.0	40373.6	39844.9	36140.4	36602.6	25269.6	15286.8
52.5°	24079.2	23909.6	25568.9	30809.8	36363.2	42056.3	43722.3	38541.3	37693.4	25359.4	14851.2
55°	18263.0	18113.4	20195.2	24611.3	32449.2	41457.7	46558.9	41018.8	38474.8	25130.0	14069.8
57.5°	9796.6	9703.5	12333.9	16380.9	25366.1	37866.3	47071.0	43639.2	39133.3	24521.5	12975.7
60°	3814.2	3797.6	4781.9	7947.6	15416.5	30806.5	44487.2	45212.0	39545.6	23773.2	12061.2
62.5°	2307.8	2357.7	2517.3	3568.1	6810.4	19137.7	38531.4	43423.0	39821.6	23088.2	11306.4
65°	1908.8	1912.1	1932.0	2450.8	3262.2	8007.5	29007.4	37537.0	39139.9	21867.8	10235.5
67.5°	1636.1	1666.0	1742.5	1945.3	2301.1	3511.6	16700.1	29077.3	34993.1	19027.9	8566.2
70°	1290.3	1330.1	1426.6	1599.5	1775.7	2198.1	6171.9	19347.2	26732.8	14342.4	6477.9
72.5°	1087.4	1084.0	1134.0	1300.2	1410.0	1546.3	2374.3	10840.8	15536.2	6847.0	3205.7
75°	841.3	874.5	937.8	1087.4	1153.9	1120.6	1286.9	3960.5	5566.7	2075.0	1090.7
77.5°	658.5	685.0	741.6	887.9	954.4	794.8	741.6	1416.7	1789.0	744.9	492.2
80°	295.9	319.3	505.4	655.1	778.2	548.7	402.4	725.0	794.8	339.2	249.4
82.5°	53.2	89.8	295.9	345.8	399.0	355.8	209.5	375.8	389.1	136.3	86.5
85°	3.3	6.7	103.1	126.4	159.6	116.4	63.1	149.6	129.7	46.5	33.2
87.5°	0.0	0.0	0.0	3.3	3.3	16.6	20.0	26.6	20.0	16.6	13.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12995.7	12995.7	12995.7	12995.7	12995.7	12995.7	12995.7	12995.7	12995.7	12995.7
2.5°	12786.2	12313.9	11855.0	11479.3	11259.8	10887.3	10641.2	10601.4	10498.3	10588.0
5°	12540.1	11695.5	10840.8	10076.0	9447.4	8636.0	8030.9	7774.7	7552.0	7628.5
7.5°	12423.7	11090.2	9760.0	8453.2	7109.7	5812.8	4848.5	4446.0	4140.1	4183.3
10°	12267.4	10461.7	8376.7	6381.4	4582.4	3302.1	2637.0	2390.9	2254.6	2258.0
12.5°	12147.7	9710.1	6770.5	4326.3	2790.0	2108.3	1902.1	1842.2	1802.4	1805.6
15°	12087.8	8825.6	5184.2	2883.1	1995.3	1785.8	1735.8	1709.3	1682.6	1679.4
17.5°	11988.1	7841.2	3794.2	2104.9	1745.9	1672.7	1629.4	1599.5	1566.3	1559.6
20°	11838.4	6724.0	2773.3	1779.1	1636.1	1579.5	1519.7	1479.8	1439.9	1433.3
22.5°	11562.4	5543.4	2131.6	1646.0	1556.3	1493.1	1419.9	1373.4	1333.5	1326.9
25°	11050.3	4436.1	1795.7	1562.9	1486.5	1410.0	1330.1	1267.0	1230.4	1223.7
27.5°	10401.8	3485.0	1629.4	1486.5	1396.7	1326.9	1237.1	1177.2	1143.9	1137.2
30°	9636.9	2683.6	1533.0	1399.9	1290.3	1230.4	1150.6	1100.7	1080.8	1080.8
32.5°	8812.3	2144.9	1493.1	1313.5	1197.1	1130.7	1067.4	1047.6	1040.9	1037.5
35°	8037.4	1862.2	1473.1	1243.7	1114.0	1050.8	1024.2	1027.6	1040.9	1040.9
37.5°	7349.1	1772.4	1463.2	1193.8	1040.9	984.3	1000.9	1030.8	1017.6	1017.6
40°	6727.3	1782.4	1456.5	1157.2	981.0	947.7	981.0	957.8	924.4	921.2
42.5°	6251.8	1865.5	1443.2	1127.3	944.4	921.2	907.8	871.2	868.0	874.5
45°	5905.9	1938.7	1439.9	1114.0	904.5	861.3	844.6	808.1	874.5	891.2
47.5°	5496.9	1938.7	1439.9	1067.4	838.0	821.3	794.8	754.9	821.3	838.0
50°	4968.2	1815.7	1383.3	1014.2	784.8	774.8	728.3	678.3	665.1	675.1
52.5°	4299.8	1592.8	1240.4	941.1	731.5	711.7	655.1	618.5	608.5	608.5
55°	3538.2	1333.5	1047.6	834.7	675.1	638.5	598.6	582.0	571.9	565.3
57.5°	2876.5	1094.1	841.3	741.6	621.9	575.3	562.0	542.0	525.4	515.5
60°	2361.0	861.3	695.1	658.5	568.7	525.4	522.1	495.5	452.2	445.6
62.5°	1822.3	631.8	585.3	571.9	515.5	478.9	472.2	419.0	352.5	339.2
65°	1286.9	492.2	472.2	502.1	458.9	425.7	409.0	329.2	259.4	249.4
67.5°	904.5	412.4	372.5	438.9	399.0	355.8	345.8	279.3	216.2	209.5
70°	645.1	335.9	306.0	375.8	319.3	312.6	292.6	232.8	176.2	169.6
72.5°	455.6	256.0	236.1	325.8	219.5	269.4	239.4	179.6	133.0	126.4
75°	335.9	182.9	166.3	189.5	159.6	202.8	169.6	119.7	83.1	79.8
77.5°	246.1	116.4	99.7	93.1	93.1	126.4	93.1	49.9	36.6	33.2
80°	172.9	53.2	46.5	39.9	36.6	29.9	13.3	6.7	3.3	3.3
82.5°	103.1	23.3	23.3	16.6	9.9	0.0	0.0	0.0	0.0	0.0
85°	23.3	9.9	9.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	3.3	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

(END OF REPORT)