

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: P969280

Luminaire Tested: **NAV-SB5D-730-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969280
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-SB5D-730-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 900mA 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: 44610 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

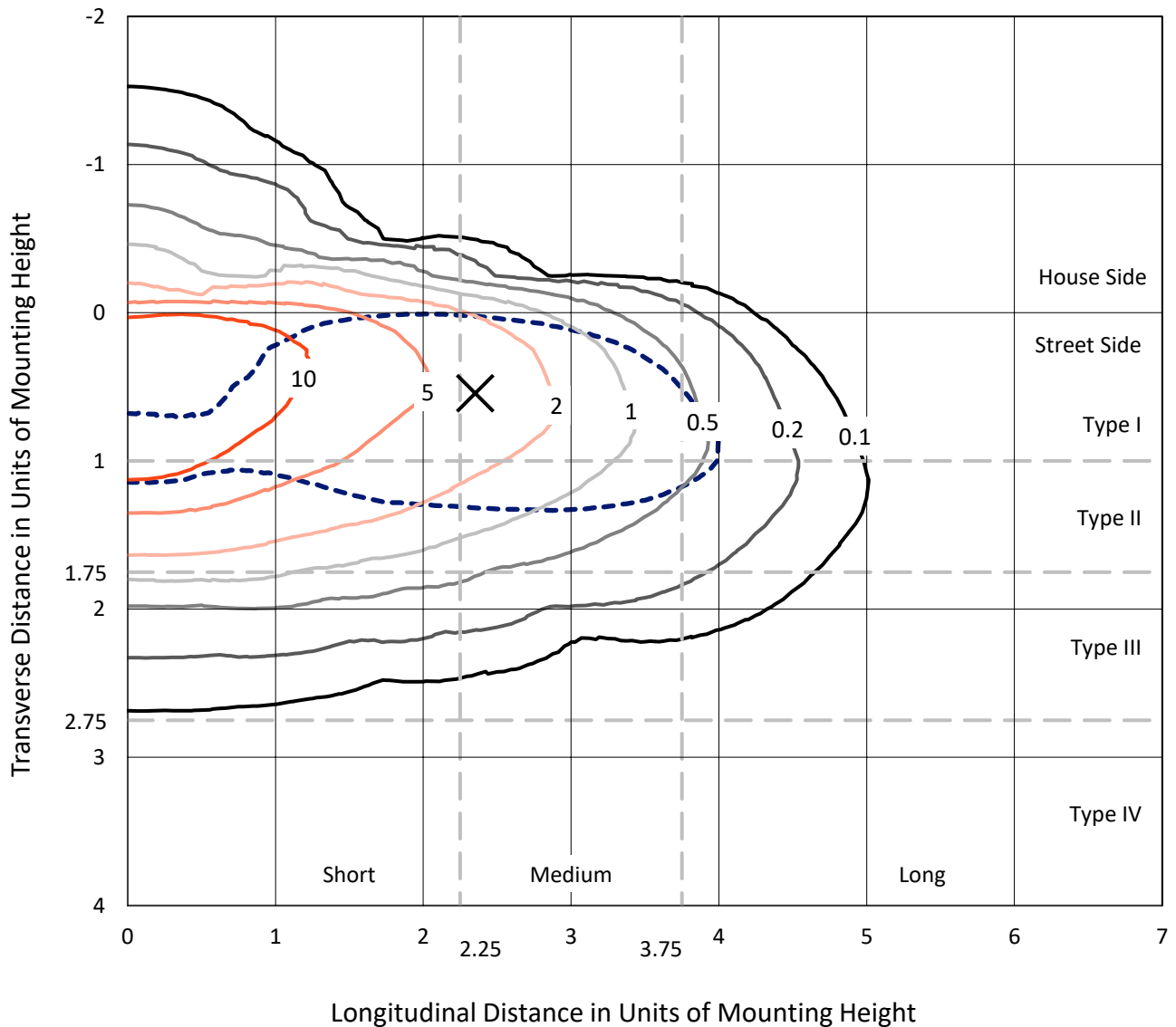
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

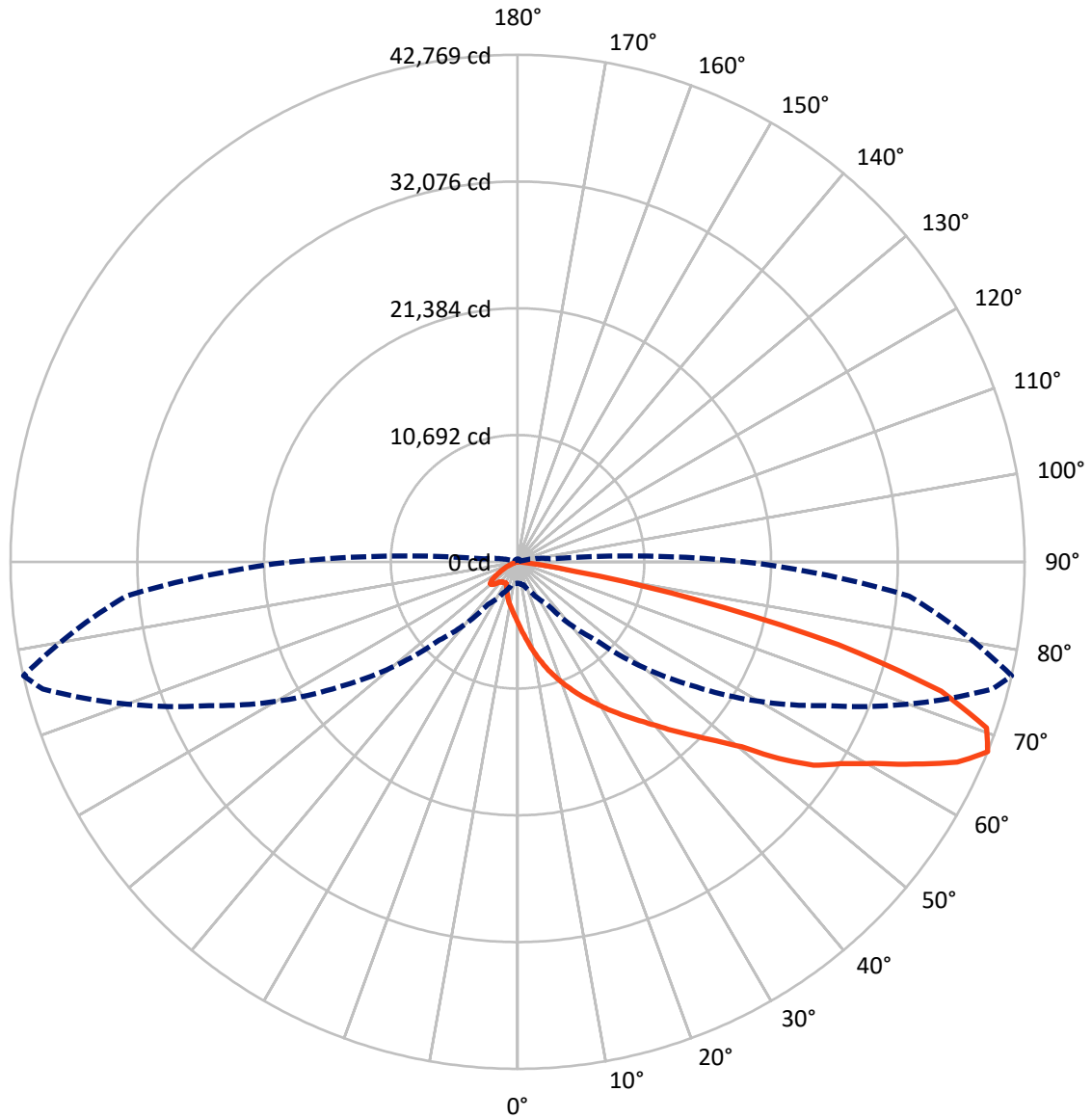
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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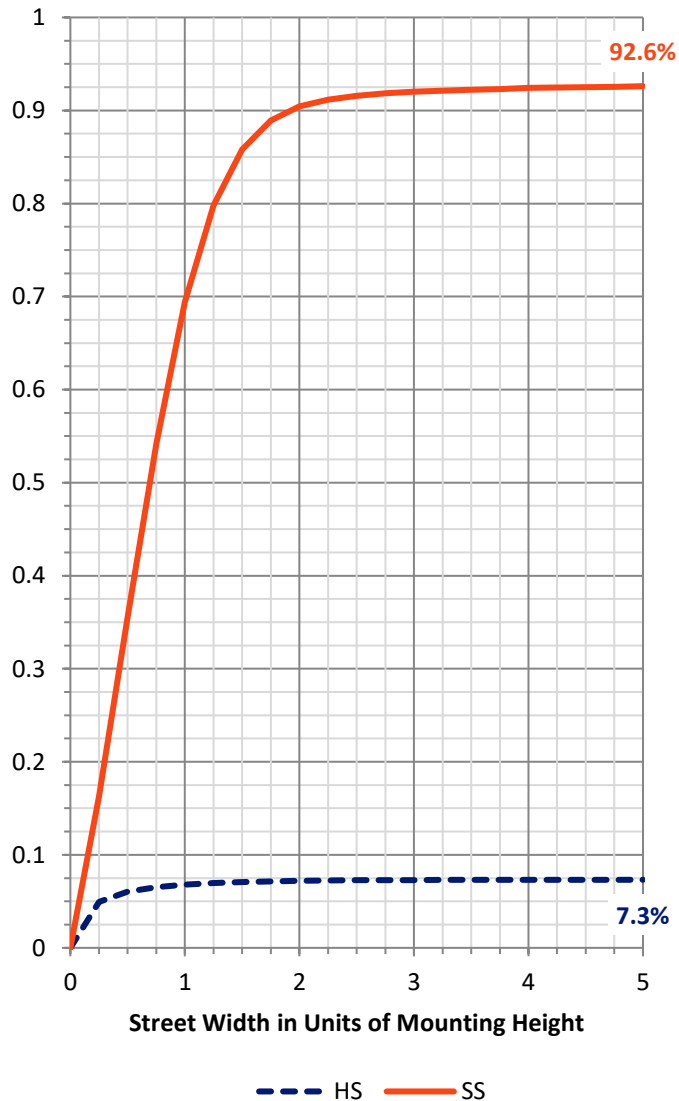
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3282.0	0.0	3282.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	41328.1	0.0	41328.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	44610.0	0.0	44610.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.0	1.2
10°-20°	1838.7	4.1
20°-30°	3548.1	8.0
30°-40°	6159.7	13.8
40°-50°	8943.6	20.0
50°-60°	10270.6	23.0
60°-70°	8916.8	20.0
70°-80°	4199.9	9.4
80°-90°	207.7	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°	44610.0	100.0
0°-180°	44610.0	100.0

Coefficient of Utilization

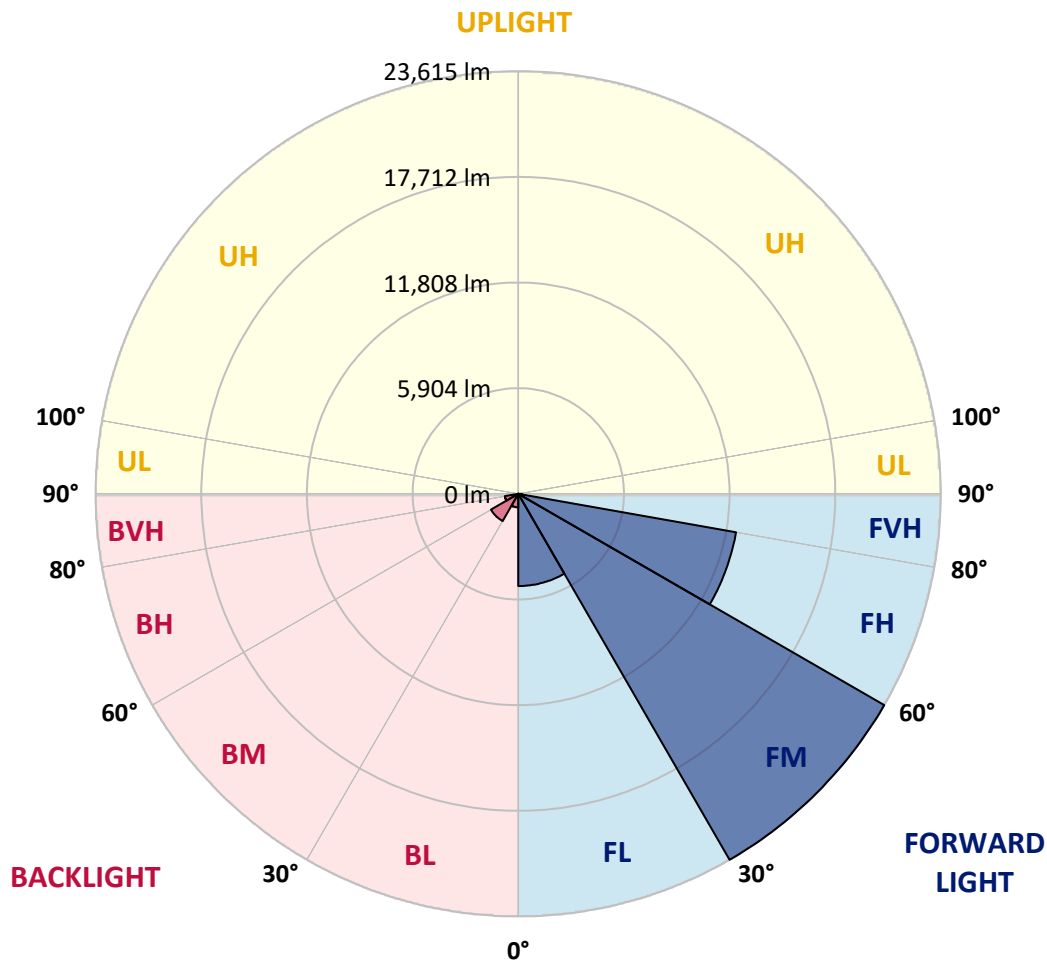


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5152.0	11.5			
FM (30°-60°)	23615.4	52.9			
FH (60°-80°)	12356.9	27.7			G5
FVH (80°-90°)	203.9	0.5			G2/225
BL (0°-30°)	759.8	1.7	B2/1000		
BM (30°-60°)	1758.5	3.9	B2/2500		
BH (60°-80°)	759.8	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.8	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-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2
2.5°	7122.1	7166.4	7102.7	6980.8	6798.0	6678.9	6388.0	6113.7	5809.1	5712.1	5407.4
5°	8681.6	8720.5	8648.4	8515.5	8271.8	8039.0	7656.7	7083.3	6487.7	6296.6	5756.4
7.5°	9836.8	9859.0	9831.3	9709.4	9476.7	9213.5	8786.9	8108.3	7224.6	7014.1	6185.8
10°	10667.9	10739.9	10731.6	10684.5	10529.4	10316.1	9861.8	9088.9	8050.1	7778.6	6670.6
12.5°	11219.1	11299.5	11346.5	11451.8	11443.5	11307.8	10908.9	10091.7	8872.8	8554.2	7216.3
15°	11379.9	11465.8	11645.7	11889.6	12105.7	12174.8	11895.1	11075.1	9778.7	9371.5	7775.9
17.5°	11288.4	11421.4	11637.4	12022.5	12496.2	12809.2	12778.8	12025.3	10601.4	10136.0	8324.3
20°	11490.7	11618.1	11787.1	12111.2	12662.4	13230.3	13457.4	12933.9	11418.6	10931.1	8900.6
22.5°	12609.8	12587.6	12604.2	12656.9	12986.5	13548.9	14017.1	13759.4	12227.5	11728.9	9509.9
25°	14382.7	14283.0	14113.9	13828.7	13745.6	14017.1	14504.6	14490.7	13080.7	12546.1	10133.3
27.5°	16416.0	16399.4	16003.2	15316.3	14928.4	14823.1	15055.8	15202.7	13925.6	13354.9	10759.3
30°	18363.4	18407.8	17873.1	17108.6	16396.6	15983.8	15773.3	15878.6	14784.4	14227.5	11404.8
32.5°	20058.7	20105.9	19524.1	18629.4	17748.5	17249.8	16806.6	16546.2	15720.6	15114.0	12114.0
35°	21491.0	21538.0	20870.4	19881.5	18942.4	18490.8	17989.5	17277.5	16662.5	16097.4	12903.4
37.5°	22770.8	22756.9	21862.1	20864.9	19942.4	19585.1	19321.9	18177.9	17632.0	17086.3	13778.8
40°	23527.0	23585.1	22820.6	21720.9	20826.1	20565.7	20549.1	19294.2	18751.2	18222.1	14737.2
42.5°	23748.6	23851.1	23297.1	22394.0	21582.3	21299.8	21734.7	20501.9	20053.2	19537.9	15820.4
45°	23349.7	23449.4	23197.4	22571.3	22097.6	21914.8	22754.1	21754.1	21443.8	20934.1	17042.1
47.5°	22186.2	22310.9	22371.9	22238.9	22233.4	22418.9	23668.3	23072.6	23094.9	22574.1	18457.6
50°	19934.1	20144.6	20704.2	21175.2	21903.7	22817.8	24557.5	24502.1	24956.4	24507.6	20302.5
52.5°	15839.8	16138.9	18067.1	19355.2	20992.3	22743.0	25535.4	26795.8	28222.5	27565.9	22903.7
55°	12728.9	12728.9	14296.8	16706.9	19213.8	22250.0	25962.0	28286.1	30446.9	30291.7	24734.8
57.5°	10377.0	10501.7	11501.7	13632.0	16640.4	21075.4	26225.1	29222.4	32239.1	32125.5	26524.3
60°	6404.6	6673.4	8562.5	10665.1	13712.3	18983.9	26058.9	30169.8	34413.8	34505.2	28679.5
62.5°	3606.8	3706.5	4548.6	7673.4	10662.4	16172.2	24787.5	30699.0	37195.0	37582.9	30901.2
65°	2490.3	2540.3	2864.4	4775.8	7390.8	12875.7	22302.6	30369.3	39981.8	40765.7	32784.9
67.5°	1808.9	1833.8	2036.1	2916.9	4385.2	9335.5	18407.8	28707.2	41458.3	42768.5	33145.0
70°	1390.6	1407.2	1554.1	1917.0	2590.1	5761.9	13368.8	25402.4	40389.0	41954.2	31300.1
72.5°	1130.3	1146.9	1260.4	1418.3	1717.5	3407.3	8102.7	20629.5	35668.7	37358.5	26646.2
75°	952.9	975.1	1077.6	1180.1	1346.3	2188.5	3800.7	14366.1	26823.5	27931.6	18529.6
77.5°	529.1	487.6	875.4	977.8	1135.8	1385.1	1778.5	8454.5	15022.6	15330.1	8221.8
80°	329.6	340.7	695.4	786.7	872.6	698.1	814.5	3255.0	5207.9	4947.5	1592.8
82.5°	19.4	44.3	534.6	567.8	598.4	299.2	307.5	1105.3	1254.9	1152.4	282.6
85°	0.0	0.0	243.7	196.7	207.8	85.9	88.7	257.6	169.0	182.9	55.5
87.5°	0.0	0.0	0.0	5.5	0.0	8.3	16.6	22.1	8.3	11.1	19.4
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°	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2	5144.2
2.5°	5213.5	5019.5	4626.1	4241.1	3928.1	3637.2	3429.4	3232.7	3133.0	3127.5	3121.9
5°	5371.3	4964.2	4177.4	3482.1	2922.5	2473.7	2182.8	1975.2	1869.9	1833.8	1828.3
7.5°	5592.9	4980.8	3784.1	2817.2	2157.9	1772.9	1606.7	1540.2	1518.0	1493.1	1487.6
10°	5872.7	5019.5	3432.2	2268.7	1700.9	1507.0	1440.5	1412.8	1396.2	1379.5	1374.0
12.5°	6185.8	5055.5	3083.2	1883.7	1495.9	1396.2	1349.1	1315.8	1293.7	1274.3	1268.7
15°	6490.5	5077.7	2720.4	1615.0	1390.6	1310.3	1260.4	1224.4	1193.9	1171.8	1169.0
17.5°	6792.5	5108.2	2379.5	1454.4	1304.7	1224.4	1174.5	1130.3	1105.3	1080.4	1077.6
20°	7127.6	5102.7	2058.2	1340.8	1218.8	1138.6	1085.9	1044.4	1019.5	991.7	988.9
22.5°	7437.9	5075.0	1775.7	1243.8	1130.3	1052.7	994.5	952.9	928.0	905.8	903.0
25°	7795.2	5052.7	1540.2	1155.2	1047.1	969.5	905.8	867.0	839.4	820.0	817.2
27.5°	8138.7	5019.5	1368.5	1074.8	966.8	892.0	831.1	786.7	761.8	747.9	747.9
30°	8476.8	5011.2	1304.7	997.2	894.7	820.0	759.0	717.5	698.1	692.5	689.7
32.5°	8883.9	5033.4	1332.5	969.5	828.3	753.5	695.4	664.8	645.4	645.4	645.4
35°	9318.8	5027.8	1374.0	994.5	783.9	687.0	642.7	623.3	603.9	603.9	603.9
37.5°	9864.6	5036.1	1407.2	1036.1	767.3	631.6	606.7	581.7	570.6	570.6	570.6
40°	10679.0	5310.4	1390.6	1072.0	761.8	592.9	542.9	534.6	526.3	526.3	526.3
42.5°	11676.3	5905.9	1412.8	1074.8	759.0	565.1	498.7	515.3	495.9	493.1	490.4
45°	12767.7	6557.0	1554.1	1016.7	756.2	551.2	476.4	495.9	465.4	465.4	465.4
47.5°	13850.8	7202.5	1698.1	933.6	747.9	548.5	457.0	446.0	437.7	440.4	440.4
50°	15343.9	7728.8	1753.5	820.0	728.6	542.9	421.1	423.8	418.3	423.8	423.8
52.5°	16970.0	7839.6	1687.0	692.5	673.1	526.3	396.2	407.2	404.5	410.0	410.0
55°	17983.9	7720.4	1393.4	576.2	587.3	459.8	371.2	393.4	393.4	393.4	393.4
57.5°	19031.1	7213.5	988.9	468.1	487.6	376.8	349.0	379.6	376.8	374.0	374.0
60°	19784.6	6393.5	651.0	385.1	387.9	310.3	324.1	357.3	354.5	340.7	340.7
62.5°	20346.9	5487.6	418.3	326.9	296.4	279.8	296.4	324.1	313.0	282.6	277.1
65°	20283.1	4232.8	321.3	279.8	243.7	243.7	257.6	282.6	249.3	199.5	193.9
67.5°	19100.3	2864.4	265.9	235.4	205.0	202.2	213.3	235.4	213.3	169.0	163.5
70°	16986.6	1872.7	213.3	182.9	163.5	149.5	171.8	202.2	180.1	135.7	130.2
72.5°	13787.1	1141.3	160.7	132.9	119.1	97.0	135.7	166.3	144.0	99.7	94.2
75°	8920.0	581.7	110.8	85.9	63.8	58.2	99.7	124.6	99.7	61.0	52.6
77.5°	3412.8	243.7	61.0	38.7	33.2	27.7	55.5	74.8	41.5	13.8	11.1
80°	656.5	102.5	30.4	19.4	16.6	11.1	8.3	5.5	0.0	0.0	0.0
82.5°	113.6	33.2	11.1	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.7	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.8	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)