

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: P970283

Luminaire Tested: **NAV-SB6B-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-722-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22272.2 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

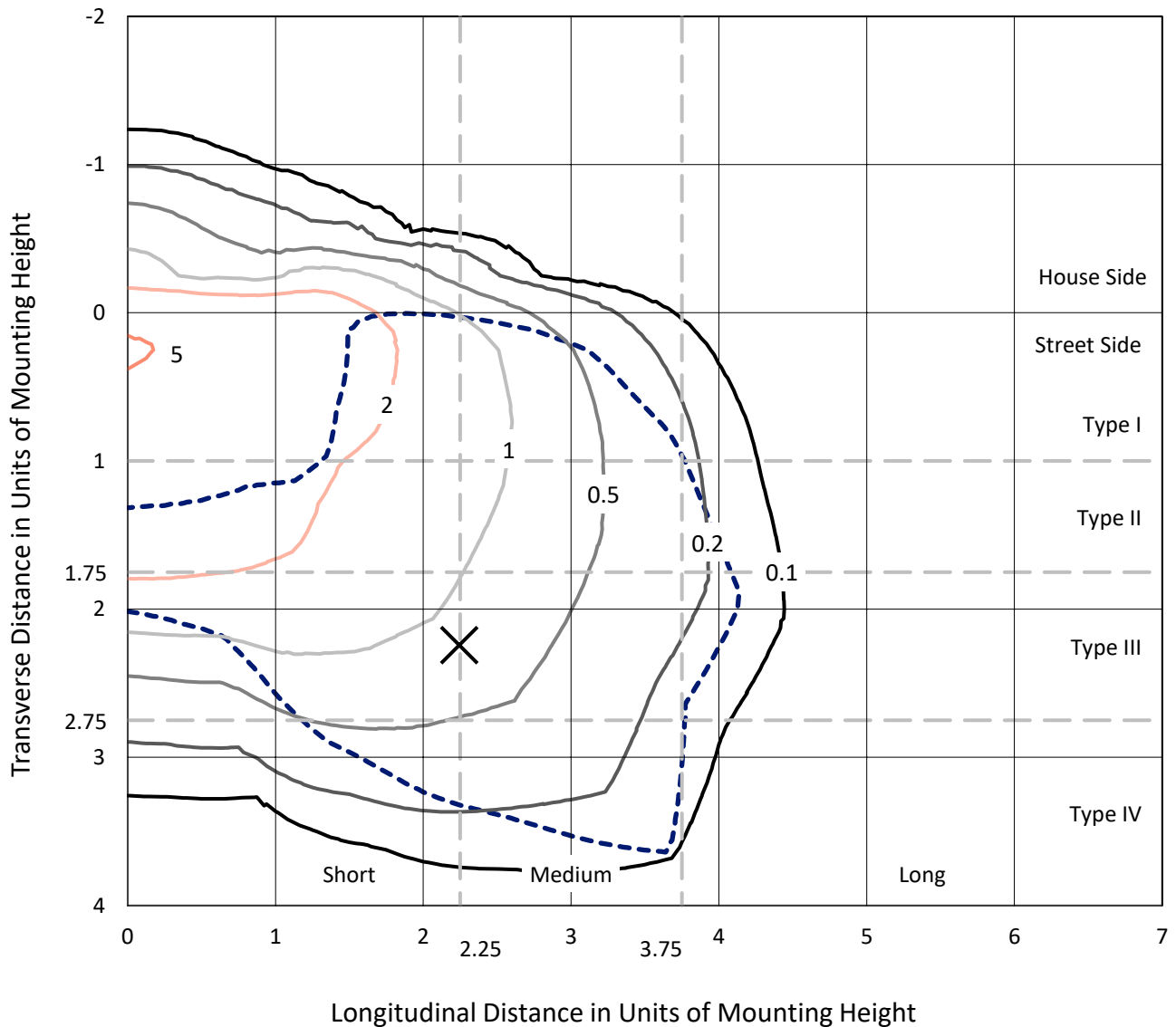
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

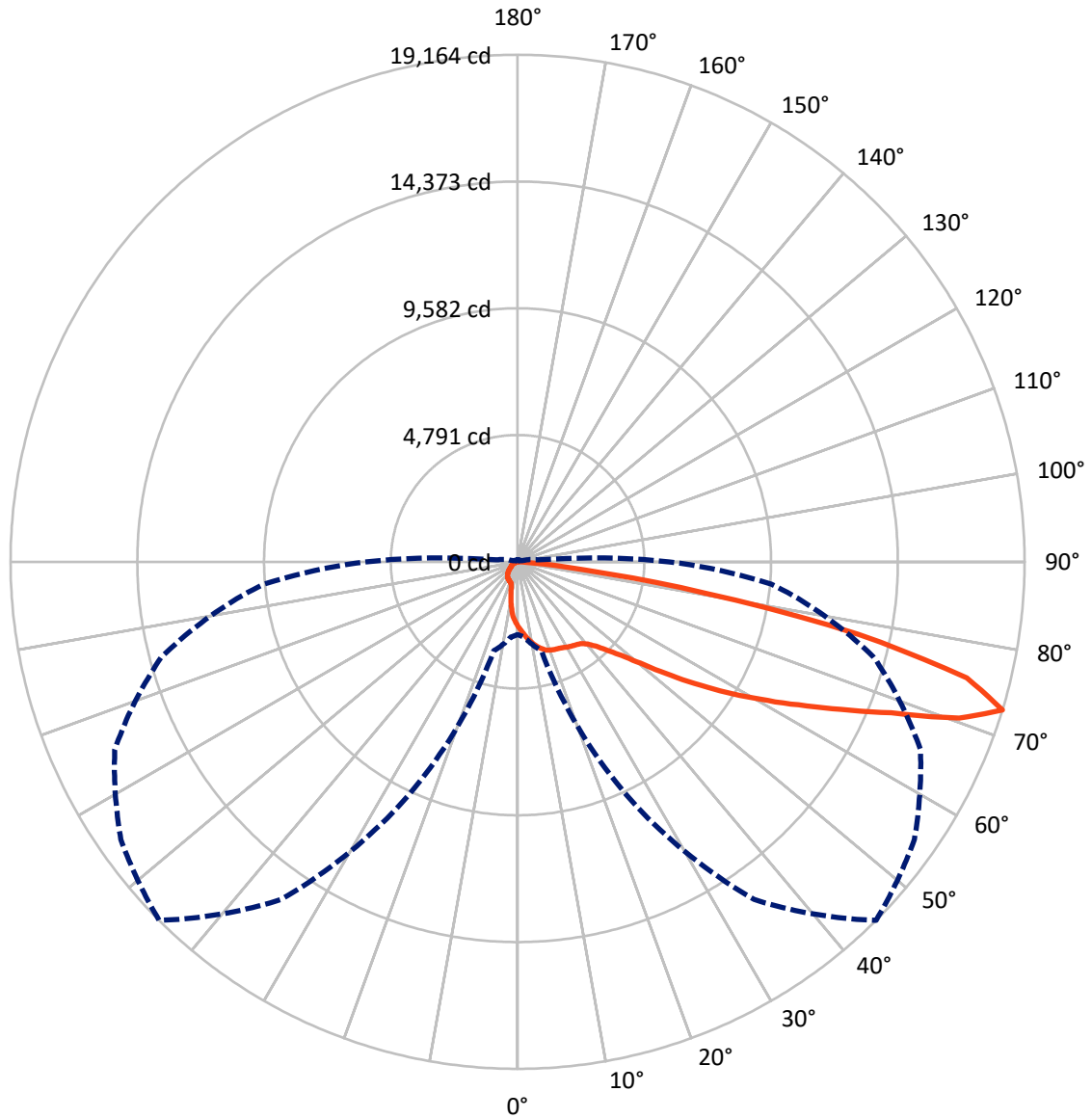
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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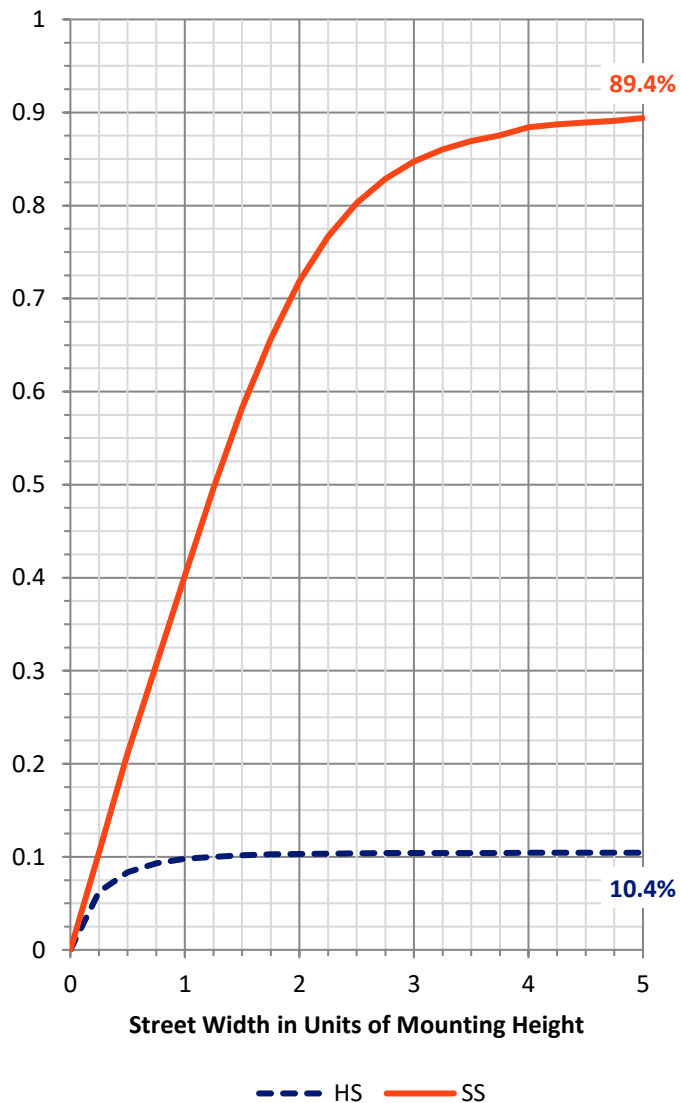
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2340.2	0.0	2340.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	19932.0	0.0	19932.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	22272.2	0.0	22272.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.9	1.0
10°-20°	671.9	3.0
20°-30°	1103.3	5.0
30°-40°	1564.8	7.0
40°-50°	2586.4	11.6
50°-60°	4646.2	20.9
60°-70°	6451.5	29.0
70°-80°	4679.8	21.0
80°-90°	338.3	1.5
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°	22272.2	100.0
0°-180°	22272.2	100.0

Coefficient of Utilization



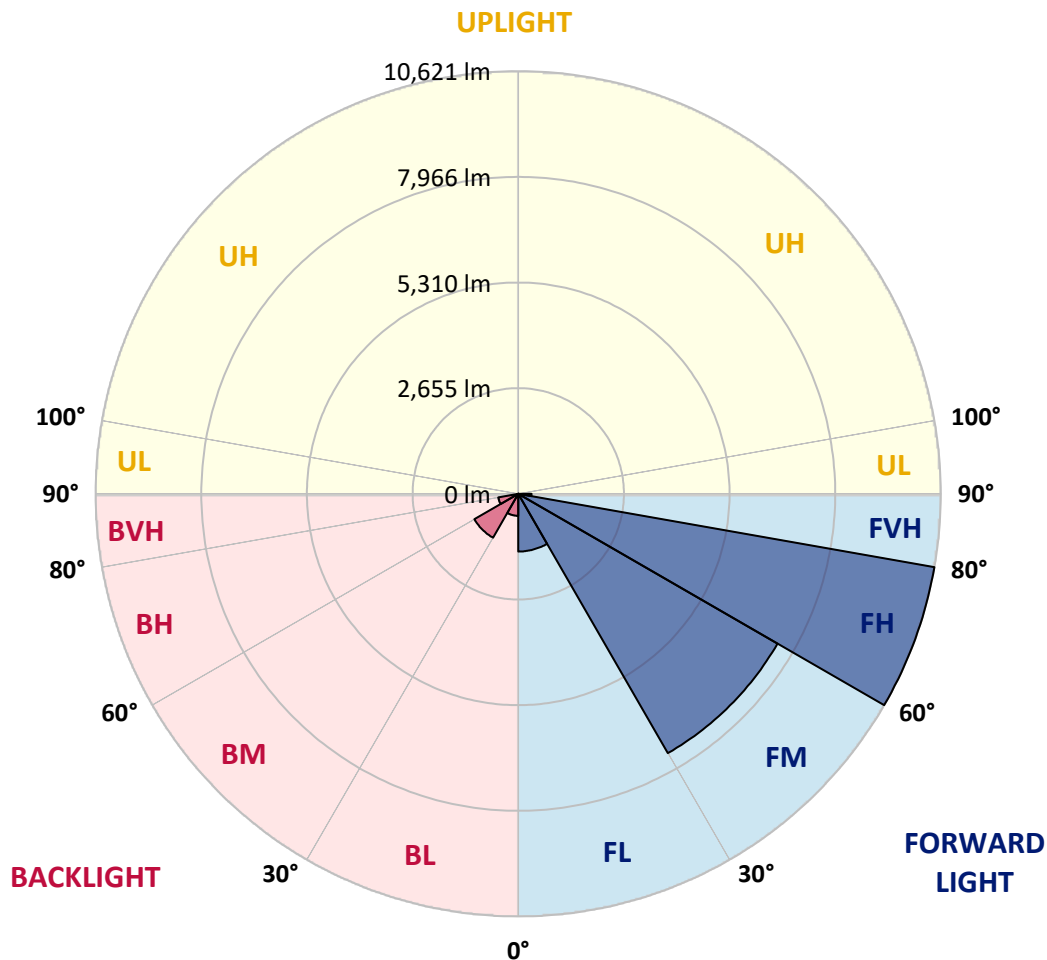
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1450.8	6.5			
FM (30°-60°)	7524.7	33.8			
FH (60°-80°)	10621.0	47.7			G4/12000
FVH (80°-90°)	335.5	1.5			G3/500
BL (0°-30°)	554.3	2.5	B2/1000		
BM (30°-60°)	1272.7	5.7	B2/2500		
BH (60°-80°)	510.3	2.3	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0
2.5°	2665.0	2669.5	2666.4	2648.2	2617.8	2601.1	2592.0	2561.6	2541.8	2506.8	2470.4
5°	2909.8	2927.9	2917.4	2880.9	2823.1	2782.1	2769.9	2707.5	2651.3	2585.9	2509.9
7.5°	3169.7	3178.8	3159.0	3111.9	3034.4	2964.4	2953.8	2867.1	2777.4	2677.1	2573.8
10°	3394.7	3405.4	3374.9	3306.5	3218.3	3131.7	3116.5	3020.7	2914.3	2791.2	2658.8
12.5°	3583.2	3593.9	3554.3	3472.2	3374.9	3285.2	3270.1	3169.7	3052.7	2915.8	2751.6
15°	3726.1	3745.9	3692.7	3604.5	3499.6	3409.9	3402.3	3303.5	3189.5	3037.4	2862.6
17.5°	3809.7	3829.5	3779.3	3672.9	3583.2	3507.1	3498.0	3415.9	3309.5	3163.6	2970.6
20°	3823.4	3841.6	3788.4	3695.6	3621.2	3560.3	3555.8	3496.5	3419.0	3279.2	3087.6
22.5°	3782.4	3805.1	3756.5	3682.0	3630.3	3598.4	3592.3	3558.9	3514.7	3396.2	3197.1
25°	3739.8	3758.1	3721.6	3656.2	3628.8	3625.7	3630.3	3624.2	3615.1	3514.7	3324.8
27.5°	3736.7	3756.5	3715.4	3653.1	3637.9	3669.8	3674.4	3703.3	3710.9	3622.8	3447.9
30°	3762.6	3776.2	3736.7	3671.3	3663.8	3736.7	3738.3	3789.9	3802.1	3713.9	3569.5
32.5°	3818.8	3834.0	3794.4	3698.7	3688.1	3789.9	3794.4	3862.9	3882.7	3811.3	3697.2
35°	3951.1	3969.3	3923.7	3774.8	3736.7	3840.1	3853.8	3934.4	3973.9	3914.6	3829.5
37.5°	4281.0	4227.7	4165.4	3928.3	3847.7	3919.2	3941.9	4036.2	4106.2	4037.8	3987.6
40°	5100.4	4933.1	4738.6	4189.8	4042.3	4087.9	4106.2	4200.3	4296.2	4229.3	4205.0
42.5°	6330.2	6132.6	5819.4	4791.8	4335.6	4358.5	4372.1	4454.2	4589.5	4536.3	4542.5
45°	7426.3	7354.9	7035.6	5819.4	4884.5	4772.0	4788.7	4831.3	5030.4	5010.7	5050.2
47.5°	8268.6	8227.5	7981.2	6999.1	5811.9	5278.2	5325.4	5345.2	5632.5	5702.4	5808.8
50°	8916.2	8901.0	8680.5	8048.1	7023.5	6024.6	6041.3	5998.8	6429.0	6602.3	6804.6
52.5°	9527.3	9578.9	9416.3	9022.6	8317.2	7002.2	6999.1	6798.5	7379.2	7640.7	7985.8
55°	10079.1	10097.4	10114.1	10016.8	9618.5	8115.0	8086.1	7757.7	8481.4	8752.0	9126.0
57.5°	10597.5	10605.2	10754.1	10953.3	10973.0	9309.9	9256.7	8863.0	9685.4	9878.4	10108.0
60°	10945.7	10980.6	11295.3	11848.7	12090.4	10542.8	10513.9	10112.5	10910.7	11000.4	10957.9
62.5°	10444.0	10656.8	11450.4	12547.9	13145.4	11909.5	11895.8	11518.7	12199.9	12126.9	11762.0
65°	8454.0	8814.3	10209.8	13020.8	14180.7	13435.8	13455.6	13054.2	13524.0	13286.8	12415.7
67.5°	5913.7	6293.7	7944.7	13058.8	15337.6	15228.1	15342.2	14712.7	14930.1	14398.1	12570.8
70°	4089.4	4285.5	5360.3	12240.9	16239.1	17697.0	17694.0	16749.9	16328.8	14904.3	11780.2
72.5°	2750.1	2852.0	3481.3	9711.3	15576.3	19164.0	19075.9	18306.6	16800.1	13939.0	9624.5
75°	1159.9	1234.4	1611.4	5457.6	12323.0	17532.8	17294.1	16178.3	14927.2	10976.1	6004.9
77.5°	367.9	399.9	635.5	1953.4	6787.9	13178.8	12926.5	10103.4	10004.6	5506.3	2195.2
80°	174.9	203.7	357.2	784.4	2671.0	7167.9	7132.9	4583.5	4303.8	1486.8	440.9
82.5°	76.1	89.7	197.6	419.5	1194.9	2557.1	2608.7	1559.7	1290.7	564.0	135.3
85°	24.3	31.9	91.2	193.1	504.7	635.5	627.8	370.9	519.9	307.1	47.2
87.5°	0.0	0.0	30.4	44.1	51.7	36.5	41.0	31.9	144.4	85.2	16.7
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°	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0	2440.0
2.5°	2452.1	2427.8	2385.3	2345.7	2310.8	2275.8	2254.5	2224.1	2221.1	2221.1	2228.7
5°	2468.8	2429.4	2353.3	2272.7	2180.0	2091.8	2003.7	1918.5	1891.1	1871.4	1880.6
7.5°	2517.5	2455.2	2335.1	2181.5	2005.2	1812.1	1676.8	1530.8	1474.7	1444.2	1448.7
10°	2587.4	2502.3	2319.9	2050.8	1764.9	1502.0	1308.9	1150.8	1090.0	1064.2	1064.2
12.5°	2665.0	2560.0	2292.5	1888.2	1502.0	1187.3	998.8	925.8	916.7	916.7	916.7
15°	2757.7	2630.0	2245.4	1696.6	1226.8	939.5	872.6	875.7	884.8	890.8	890.8
17.5°	2853.5	2704.5	2170.8	1482.3	983.6	845.2	846.8	851.4	859.0	865.0	865.0
20°	2956.8	2779.0	2072.0	1254.2	843.7	817.8	822.5	827.0	833.1	836.1	837.6
22.5°	3067.8	2848.9	1955.0	1030.7	796.6	795.1	796.6	801.1	808.7	808.7	811.8
25°	3186.4	2926.5	1821.2	868.1	772.2	772.2	775.3	778.4	784.4	784.4	786.0
27.5°	3308.0	2997.9	1679.9	782.9	751.0	749.5	749.5	754.0	757.1	758.6	760.1
30°	3441.8	3081.5	1538.4	764.6	734.3	726.6	722.1	725.2	728.2	729.7	732.8
32.5°	3578.6	3162.1	1412.2	772.2	717.5	703.9	688.7	685.6	685.6	691.7	696.3
35°	3730.7	3250.3	1315.0	798.2	708.4	670.5	646.1	632.4	634.0	643.1	647.6
37.5°	3913.0	3356.7	1243.5	820.9	702.3	632.4	592.9	576.2	565.5	576.2	573.1
40°	4151.8	3513.3	1191.9	839.2	694.7	588.3	535.2	507.8	488.0	494.0	491.1
42.5°	4502.9	3759.5	1172.1	840.7	678.0	536.7	475.8	439.3	410.5	411.9	405.9
45°	4995.4	4148.7	1274.0	820.9	641.5	480.4	413.5	364.9	346.7	342.0	336.0
47.5°	5670.5	4715.7	1509.6	779.9	588.3	425.7	352.7	311.6	298.0	290.4	285.8
50°	6575.0	5444.0	1771.1	734.3	535.2	374.0	302.5	276.6	267.5	259.9	258.4
52.5°	7623.9	6182.8	1985.4	688.7	482.0	328.4	270.6	255.4	247.8	241.7	240.2
55°	8586.2	6692.0	1973.2	640.0	430.2	291.9	247.8	238.7	229.6	223.4	220.5
57.5°	9185.2	6763.5	1626.7	586.8	370.9	263.0	226.5	220.5	209.8	202.2	200.7
60°	9460.4	6356.1	1140.2	516.9	311.6	235.6	203.7	200.7	187.0	176.3	173.3
62.5°	9510.6	5599.0	760.1	430.2	259.9	209.8	180.9	176.3	158.1	139.8	130.8
65°	9306.9	4516.6	526.0	336.0	221.9	182.4	155.1	146.0	126.2	107.9	101.9
67.5°	8662.3	3171.2	366.3	241.7	188.5	144.4	123.1	120.1	104.9	89.7	85.2
70°	7481.1	1807.6	244.8	180.9	148.9	98.8	97.3	100.3	85.2	73.0	66.9
72.5°	5735.8	827.0	152.0	132.2	101.9	66.9	77.5	79.0	65.4	54.7	48.7
75°	3376.5	354.2	95.7	85.2	51.7	44.1	56.3	57.8	44.1	35.0	30.4
77.5°	1149.3	133.8	60.8	50.1	25.8	24.3	36.5	36.5	24.3	13.6	10.7
80°	261.5	50.1	30.4	19.8	12.2	10.7	12.2	10.7	6.0	1.5	0.0
82.5°	74.5	19.8	12.2	7.6	4.5	4.5	1.5	0.0	0.0	0.0	0.0
85°	21.3	9.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	1.5	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)