

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: P965008

Luminaire Tested: **NAV-SB3D-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-722-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21522.9 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

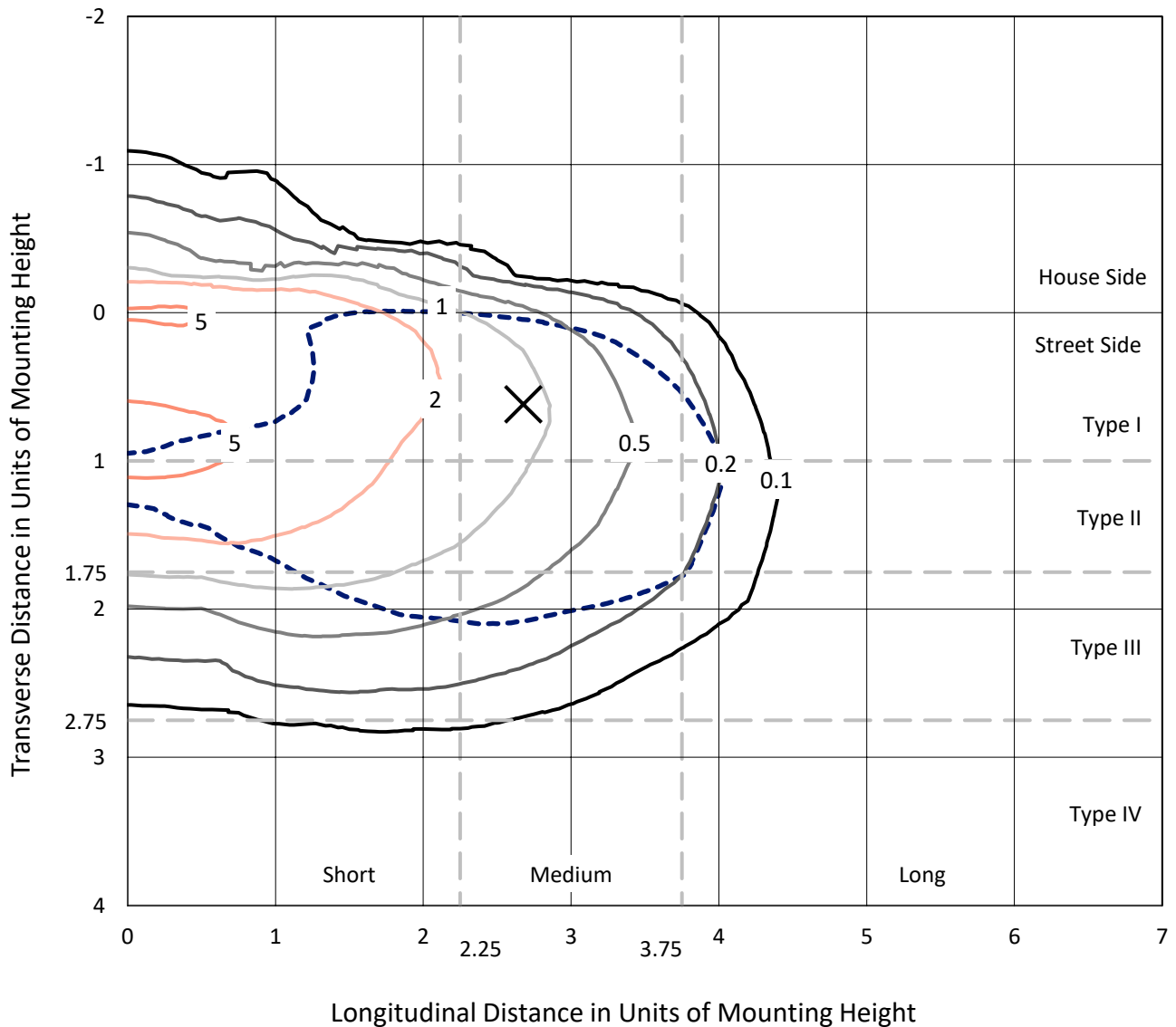
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

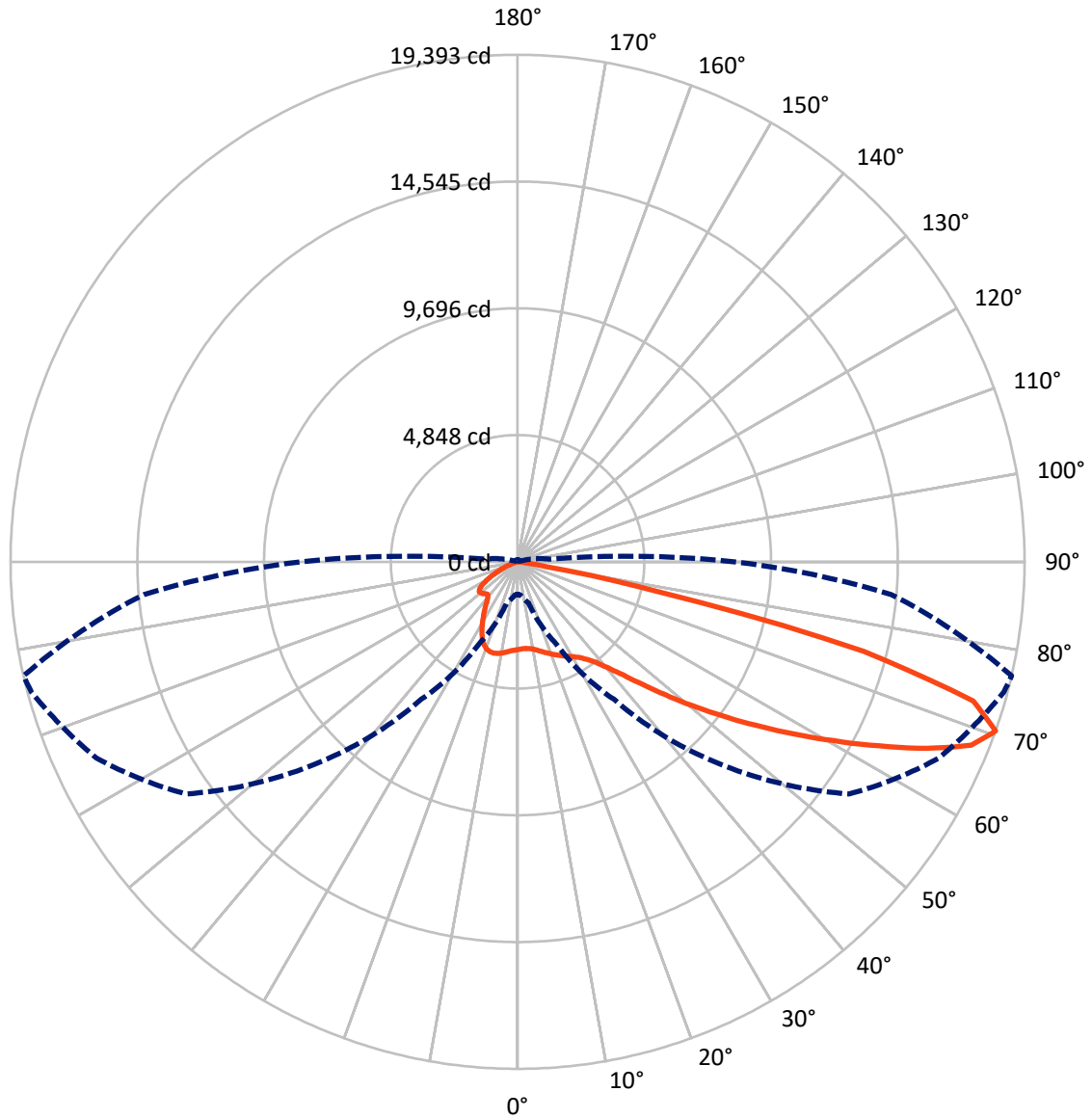
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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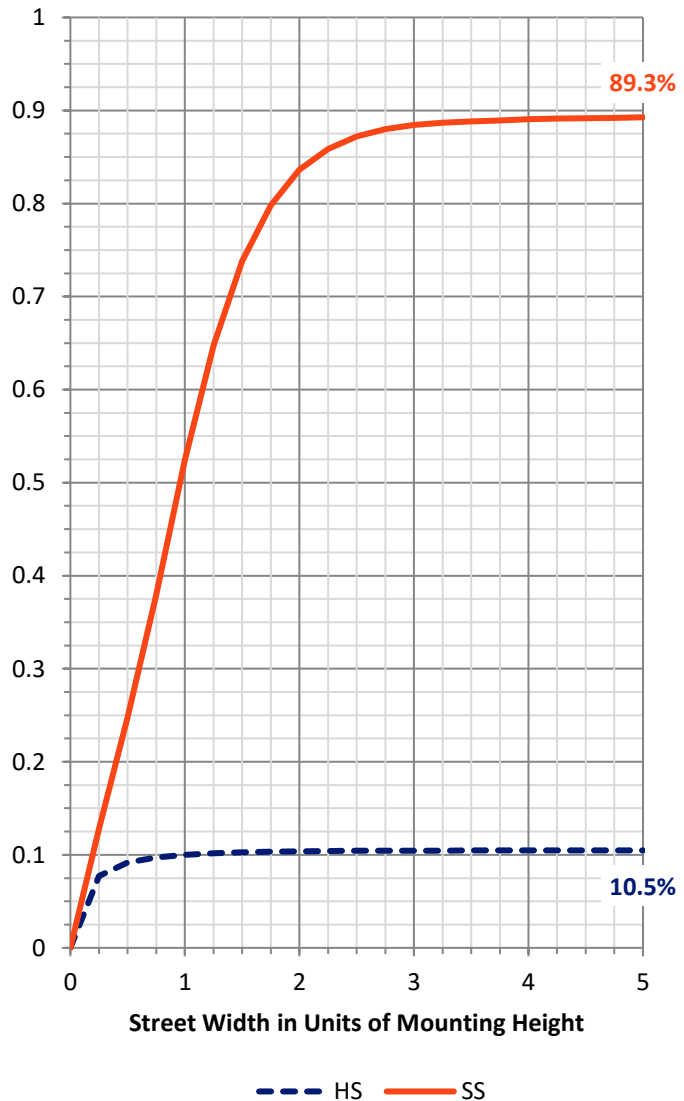
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2268.8	0.0	2268.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	19254.1	0.0	19254.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	21522.9	0.0	21522.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.3	1.3
10°-20°	686.9	3.2
20°-30°	1062.4	4.9
30°-40°	1927.7	9.0
40°-50°	3638.8	16.9
50°-60°	5257.8	24.4
60°-70°	5596.8	26.0
70°-80°	2965.9	13.8
80°-90°	97.4	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°	21522.9	100.0
0°-180°	21522.9	100.0

Coefficient of Utilization

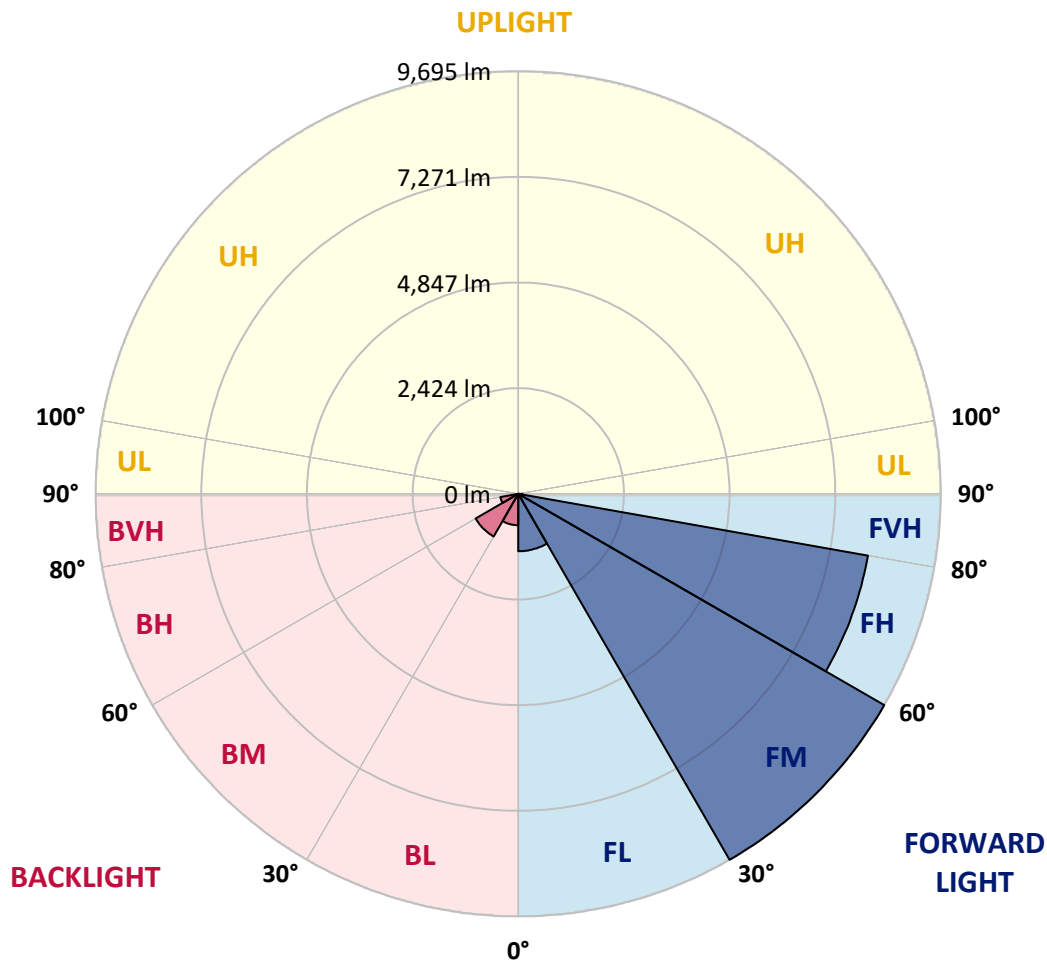


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1317.7	6.1			
FM (30°-60°)	9694.9	45.0			
FH (60°-80°)	8146.7	37.9			G4/12000
FVH (80°-90°)	94.8	0.4			G1/100
BL (0°-30°)	720.8	3.3	B2/1000		
BM (30°-60°)	1129.4	5.2	B2/2500		
BH (60°-80°)	415.9	1.9	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2
2.5°	3152.0	3180.5	3176.4	3195.4	3202.2	3229.5	3256.6	3293.3	3334.1	3332.7	3360.0
5°	2973.9	3002.4	3009.2	3035.0	3067.7	3109.8	3165.5	3238.9	3315.1	3327.3	3381.7
7.5°	2763.2	2793.1	2810.8	2862.4	2922.3	3009.2	3100.3	3207.6	3334.1	3351.7	3456.4
10°	2552.6	2579.7	2602.9	2676.3	2771.4	2900.5	3048.7	3203.6	3373.5	3399.3	3547.5
12.5°	2422.1	2447.9	2473.7	2537.6	2655.9	2813.5	3014.6	3222.6	3438.8	3475.5	3671.1
15°	2375.8	2399.0	2419.3	2476.4	2586.5	2766.0	3007.9	3262.1	3521.7	3570.6	3820.7
17.5°	2382.6	2394.9	2408.4	2452.0	2559.3	2744.2	3020.2	3330.0	3619.5	3663.0	3970.2
20°	2422.1	2428.8	2430.3	2460.1	2555.2	2741.5	3044.6	3395.2	3711.9	3770.4	4118.3
22.5°	2472.4	2475.1	2472.4	2492.7	2581.1	2761.9	3077.2	3474.0	3815.3	3869.6	4267.9
25°	2707.5	2655.9	2590.6	2551.2	2624.6	2801.3	3126.1	3580.1	3928.0	3981.1	4413.2
27.5°	3437.3	3289.2	3055.4	2793.1	2714.3	2858.4	3194.1	3687.4	4042.2	4089.7	4569.6
30°	4622.5	4428.2	4031.3	3440.1	3002.4	2977.9	3282.5	3794.9	4163.1	4214.8	4736.7
32.5°	5810.5	5763.0	5304.9	4486.6	3650.7	3244.3	3429.2	3940.3	4323.6	4364.3	4962.4
35°	7012.0	6915.6	6540.4	5731.7	4649.8	3786.7	3673.9	4130.5	4534.3	4580.4	5291.4
37.5°	7932.2	7873.7	7641.4	6975.3	5835.0	4624.0	4092.5	4425.5	4840.0	4891.7	5712.6
40°	8745.0	8717.8	8639.0	8200.0	7160.2	5719.5	4743.6	4882.2	5264.1	5325.3	6229.1
42.5°	9383.9	9447.7	9492.5	9370.2	8526.2	6969.9	5618.8	5523.7	5855.4	5917.9	6887.0
45°	10037.6	10059.3	10240.2	10416.8	9882.6	8277.5	6605.6	6275.4	6590.6	6668.1	7675.3
47.5°	10457.6	10544.6	10862.6	11173.8	11023.1	9574.1	7665.8	7162.9	7442.9	7588.4	8558.8
50°	10488.8	10653.3	11091.0	11633.2	11853.5	10808.2	8818.4	8174.2	8471.8	8632.2	9502.1
52.5°	9968.2	10223.8	10902.0	11695.8	12302.0	11853.5	10010.5	9185.4	9567.3	9776.7	10480.7
55°	7642.7	7977.1	10191.2	11356.0	12319.7	12645.8	11171.2	10238.7	10787.8	11024.4	11538.1
57.5°	6658.7	6827.2	8012.4	10766.1	11992.1	12965.3	12220.5	11241.8	12115.8	12409.4	12537.2
60°	5540.0	5761.6	6719.8	9801.0	11547.6	12996.6	13147.4	12535.7	13555.2	13885.5	13453.2
62.5°	3764.9	4005.5	4958.3	8142.9	10940.1	12981.6	13907.2	13867.7	15154.9	15509.7	14229.4
65°	2332.4	2483.3	3111.2	6649.2	10090.6	12997.9	14702.3	15485.2	16843.0	17203.2	14830.1
67.5°	1843.1	1912.3	2239.9	5105.1	8626.8	12631.0	15496.1	17006.2	18432.0	18717.3	15013.6
70°	1238.2	1280.3	1629.6	3422.5	6418.0	10937.4	15481.1	17770.0	19250.1	19392.9	14344.9
72.5°	652.4	685.0	952.8	1584.9	3876.4	7774.5	13049.6	16856.6	18436.1	18221.2	12261.3
75°	326.2	380.6	641.5	804.6	1655.5	4335.9	8103.4	13290.2	14510.7	13678.8	7867.0
77.5°	247.3	299.0	530.1	530.1	576.3	1459.8	3431.9	7248.5	6685.9	5567.2	2309.2
80°	157.6	203.9	463.5	401.0	240.6	371.0	894.3	2030.6	1420.3	1080.6	419.9
82.5°	92.5	133.2	386.0	265.1	134.6	137.2	252.8	432.2	368.4	286.8	129.1
85°	36.7	87.0	265.1	104.7	53.0	34.0	76.2	92.5	76.2	57.1	32.6
87.5°	0.0	20.4	46.2	0.0	4.1	2.8	5.4	6.8	6.8	5.4	10.9
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°	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2
2.5°	3372.1	3374.8	3383.0	3384.3	3365.4	3340.9	3331.4	3327.3	3311.0	3309.6	3312.3
5°	3412.9	3425.1	3412.9	3377.6	3293.3	3175.0	3085.4	3012.0	2945.3	2924.9	2912.7
7.5°	3494.4	3506.7	3470.0	3331.4	3119.4	2884.1	2672.2	2522.6	2388.0	2337.8	2317.4
10°	3611.4	3627.7	3512.2	3232.1	2857.0	2479.2	2120.3	1867.5	1670.4	1590.3	1556.3
12.5°	3758.2	3764.9	3535.2	3081.3	2515.9	1976.3	1467.9	1197.4	1022.1	956.8	936.4
15°	3919.9	3910.4	3538.0	2876.0	2051.0	1397.3	958.3	787.0	716.3	694.5	694.5
17.5°	4089.7	4050.4	3483.6	2579.7	1541.3	955.5	710.8	670.0	657.8	652.4	651.1
20°	4256.9	4168.7	3384.3	2192.4	1106.4	713.6	645.6	633.3	626.6	623.9	621.2
22.5°	4409.2	4258.4	3214.5	1742.5	803.3	630.7	610.3	599.4	587.1	581.7	580.4
25°	4557.4	4310.0	2975.3	1322.5	642.9	589.9	573.6	553.2	536.9	530.1	527.4
27.5°	4701.5	4342.6	2676.3	978.6	573.6	551.9	521.9	493.4	481.1	478.5	475.7
30°	4855.0	4353.5	2336.5	729.9	531.5	504.3	460.7	428.1	421.4	422.7	422.7
32.5°	5042.6	4369.8	1993.9	598.1	496.1	447.2	395.5	361.5	356.1	361.5	360.2
35°	5266.9	4402.4	1663.7	550.4	464.8	388.7	333.0	304.4	299.0	303.1	301.8
37.5°	5571.3	4455.4	1355.2	541.0	439.0	339.8	280.0	256.9	256.9	258.2	256.9
40°	5976.4	4596.8	1079.2	534.1	425.4	303.1	236.5	226.9	231.0	233.8	233.8
42.5°	6469.7	4897.1	893.0	526.0	410.5	286.8	214.7	210.6	217.5	220.2	220.2
45°	7022.9	5277.7	827.8	512.4	396.9	297.7	205.2	199.8	208.0	209.3	210.6
47.5°	7595.1	5650.1	819.6	497.4	383.2	314.0	202.5	190.2	199.8	201.2	202.5
50°	8174.2	5893.4	827.8	474.4	361.5	314.0	203.9	180.8	188.9	193.0	194.3
52.5°	8757.2	6004.9	822.4	424.0	323.5	294.9	203.9	172.6	180.8	183.5	183.5
55°	9322.7	5983.1	739.4	349.3	274.6	261.0	198.4	165.8	171.3	172.6	172.6
57.5°	9769.8	5680.0	585.8	271.8	222.9	217.5	180.8	157.6	161.7	160.4	160.4
60°	10003.6	5014.0	418.6	209.3	175.4	171.3	159.0	146.8	149.5	142.7	141.3
62.5°	10006.4	4133.3	280.0	165.8	140.0	135.9	135.9	131.8	129.1	115.5	111.4
65°	9793.0	3156.1	186.2	131.8	112.9	106.0	114.2	112.9	103.3	84.3	81.6
67.5°	9309.0	2068.7	141.3	103.3	87.0	82.9	91.0	95.1	88.4	70.7	69.3
70°	8314.2	1204.3	116.8	80.2	65.2	61.2	73.4	81.6	73.4	57.1	54.3
72.5°	6906.0	649.6	95.1	59.8	44.9	40.8	58.4	66.6	58.4	42.1	40.8
75°	4481.2	348.0	73.4	39.5	23.1	25.8	43.5	48.9	40.8	27.2	24.5
77.5°	1504.6	153.5	46.2	19.1	10.9	10.9	25.8	29.9	19.1	9.5	8.2
80°	335.7	63.9	19.1	8.2	4.1	4.1	5.4	5.4	2.8	0.0	0.0
82.5°	110.1	25.8	8.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.1	9.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.3	1.3	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)