

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: P964512

Luminaire Tested: **NAV-SB3C-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964512
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-SB3C-727-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA 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: 17785.8 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

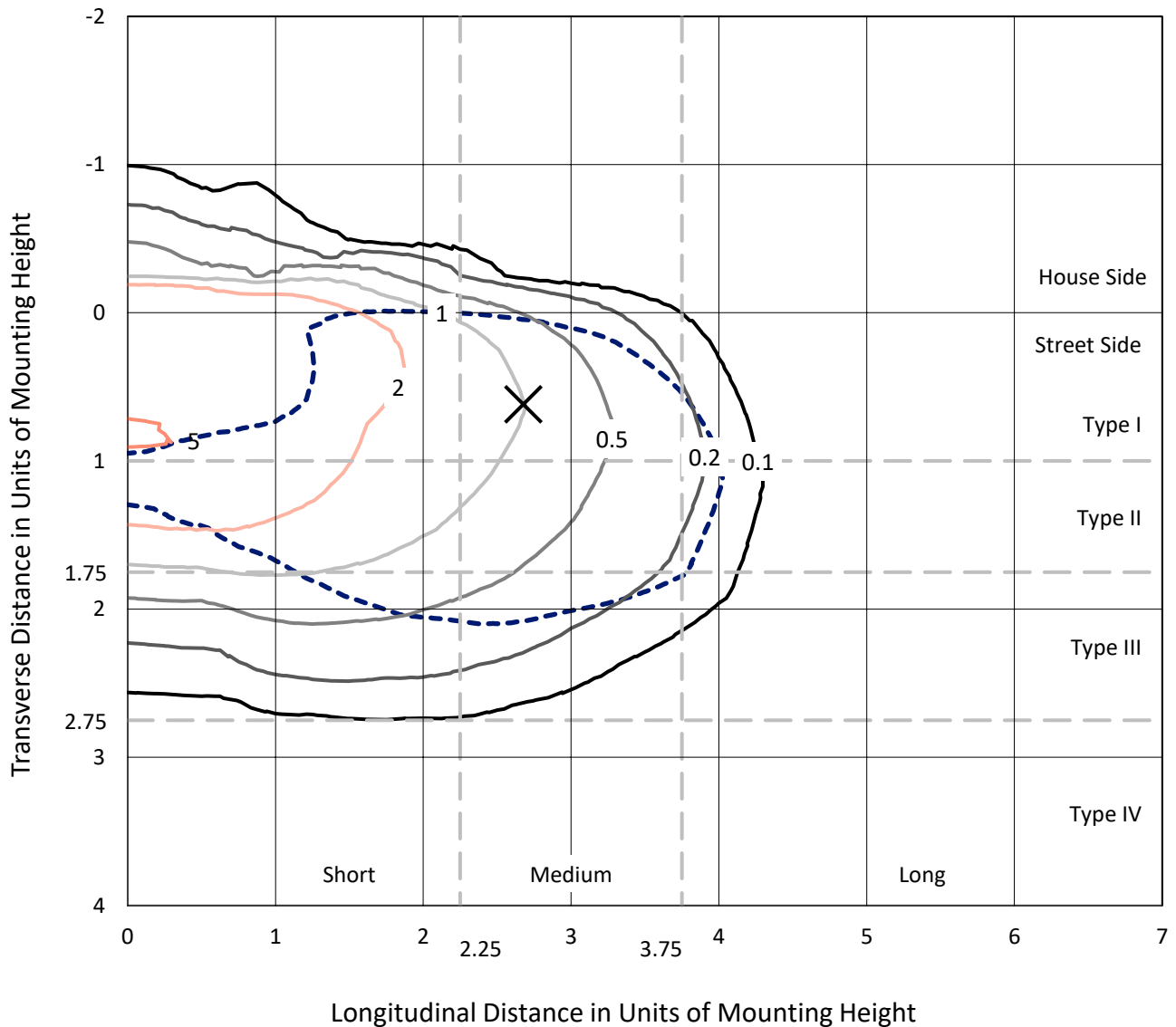
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

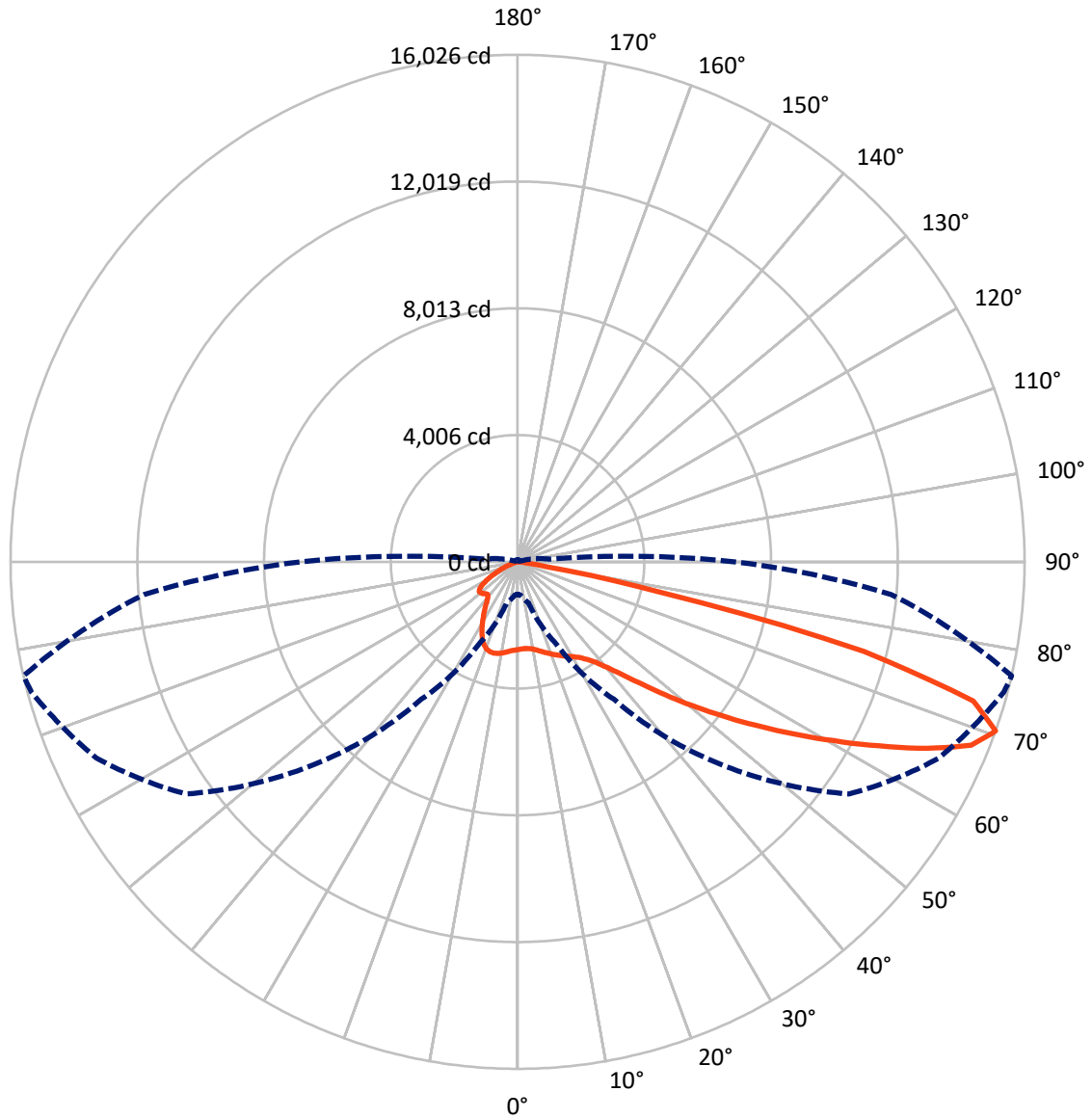
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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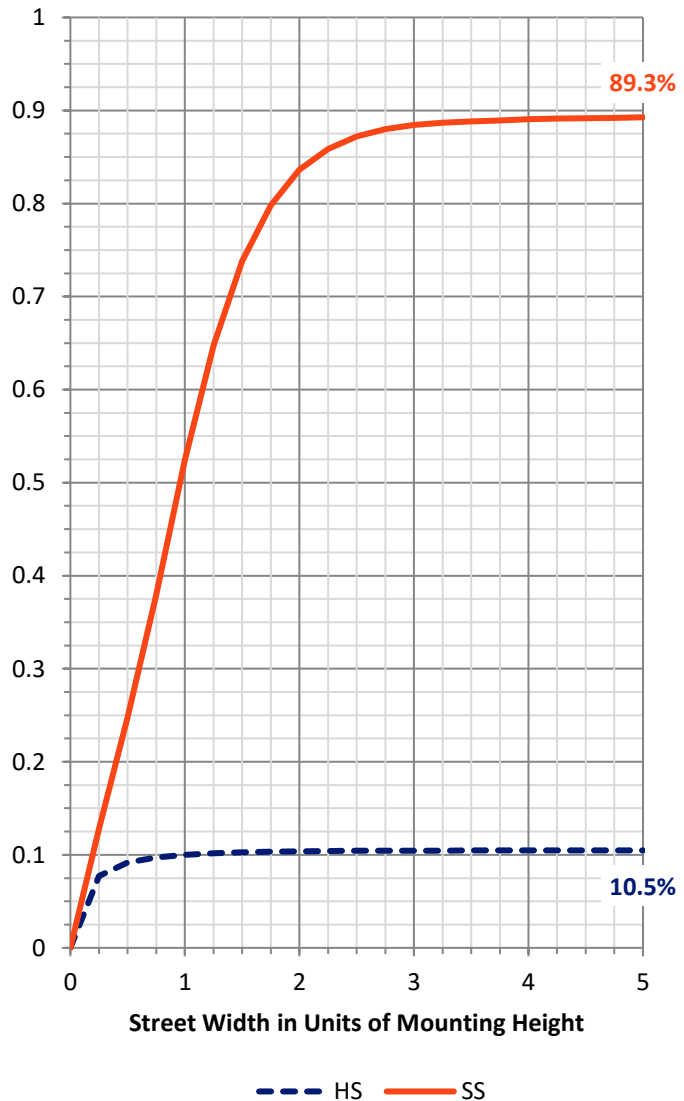
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1874.9	0.0	1874.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	15910.9	0.0	15910.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	17785.8	0.0	17785.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.1	1.3
10°-20°	567.6	3.2
20°-30°	877.9	4.9
30°-40°	1593.0	9.0
40°-50°	3007.0	16.9
50°-60°	4344.8	24.4
60°-70°	4625.0	26.0
70°-80°	2450.9	13.8
80°-90°	80.5	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°	17785.8	100.0
0°-180°	17785.8	100.0

Coefficient of Utilization

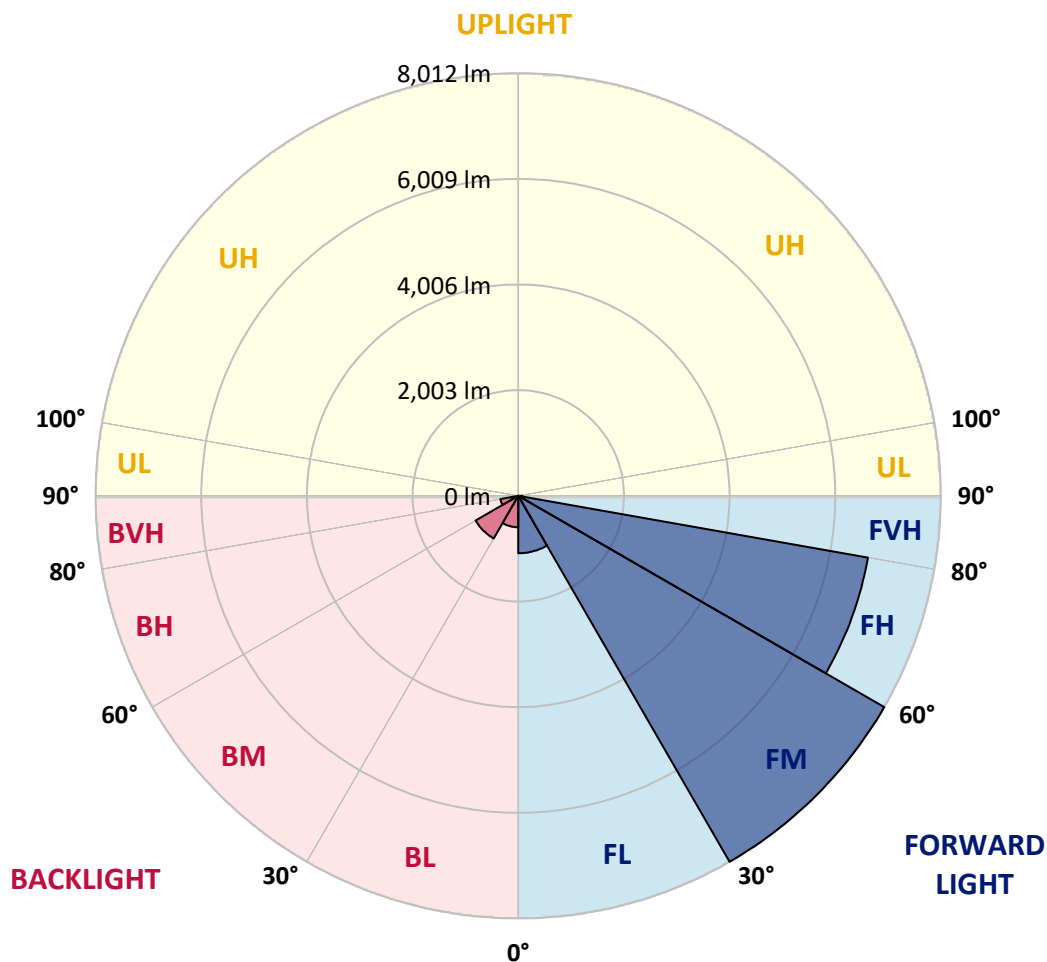


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1088.9	6.1			
FM (30°-60°)	8011.5	45.0			
FH (60°-80°)	6732.2	37.9			G3/7500
FVH (80°-90°)	78.3	0.4			G1/100
BL (0°-30°)	595.7	3.3	B2/1000		
BM (30°-60°)	933.3	5.2	B1/1000		
BH (60°-80°)	343.7	1.9	B1/500		G1/500
BVH (80°-90°)	2.2	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-G3
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3
2.5°	2604.6	2628.2	2624.9	2640.6	2646.2	2668.7	2691.1	2721.5	2755.2	2754.1	2776.5
5°	2457.5	2481.1	2486.8	2508.1	2535.0	2569.9	2615.9	2676.6	2739.4	2749.6	2794.5
7.5°	2283.4	2308.1	2322.8	2365.4	2414.8	2486.8	2562.0	2650.8	2755.2	2769.8	2856.3
10°	2109.3	2131.8	2150.9	2211.5	2290.2	2396.9	2519.3	2647.4	2787.7	2809.1	2931.5
12.5°	2001.5	2022.8	2044.2	2096.9	2194.7	2325.0	2491.3	2663.1	2841.6	2871.9	3033.7
15°	1963.3	1982.5	1999.3	2046.4	2137.4	2285.6	2485.6	2695.6	2910.2	2950.6	3157.3
17.5°	1968.9	1979.1	1990.2	2026.2	2115.0	2267.7	2495.7	2751.8	2991.1	3027.0	3280.8
20°	2001.5	2007.2	2008.3	2033.0	2111.6	2265.5	2516.0	2805.7	3067.4	3115.7	3403.2
22.5°	2043.0	2045.3	2043.0	2059.9	2132.9	2282.3	2542.9	2870.8	3152.8	3197.7	3526.8
25°	2237.4	2194.7	2140.8	2108.2	2168.9	2314.9	2583.3	2958.5	3246.0	3289.8	3647.0
27.5°	2840.6	2718.1	2524.9	2308.1	2243.0	2362.0	2639.5	3047.2	3340.4	3379.6	3776.1
30°	3820.0	3659.4	3331.4	2842.7	2481.1	2460.9	2712.5	3135.9	3440.3	3483.0	3914.3
32.5°	4801.6	4762.3	4383.8	3707.6	3016.9	2681.0	2833.8	3256.1	3572.8	3606.6	4100.7
35°	5794.5	5714.8	5404.7	4736.4	3842.4	3129.2	3035.9	3413.4	3747.0	3785.1	4372.5
37.5°	6554.9	6506.6	6314.5	5764.2	4821.8	3821.1	3381.9	3657.1	3999.7	4042.3	4720.7
40°	7226.6	7204.1	7138.9	6776.2	5916.9	4726.4	3919.9	4034.5	4350.1	4400.6	5147.5
42.5°	7754.4	7807.2	7844.3	7743.3	7045.7	5759.7	4643.2	4564.6	4838.7	4890.4	5691.2
45°	8294.7	8312.6	8462.1	8608.1	8166.7	6840.2	5458.6	5185.8	5446.3	5510.3	6342.6
47.5°	8641.8	8713.6	8976.4	9233.7	9109.0	7911.7	6334.7	5919.2	6150.5	6270.7	7072.7
50°	8667.6	8803.5	9165.1	9613.4	9795.3	8931.5	7287.2	6754.9	7000.9	7133.4	7852.2
52.5°	8237.4	8448.6	9009.0	9665.0	10165.9	9795.3	8272.3	7590.4	7906.1	8079.0	8660.8
55°	6315.6	6592.0	8421.6	9384.2	10180.5	10450.1	9231.5	8461.0	8914.7	9110.1	9534.8
57.5°	5502.5	5641.7	6621.2	8896.7	9909.8	10714.0	10098.5	9289.9	10012.1	10254.7	10360.3
60°	4578.1	4761.1	5553.0	8099.2	9542.5	10739.8	10864.6	10359.2	11201.5	11474.5	11117.3
62.5°	3111.2	3310.0	4097.3	6729.0	9040.5	10727.5	11492.4	11459.8	12523.4	12816.6	11758.6
65°	1927.4	2052.0	2571.0	5494.6	8338.5	10741.0	12149.4	12796.4	13918.5	14216.1	12255.1
67.5°	1523.0	1580.3	1851.0	4218.7	7128.9	10437.8	12805.4	14053.3	15231.5	15467.4	12406.7
70°	1023.3	1058.0	1346.7	2828.2	5303.7	9038.2	12793.0	14684.5	15907.7	16025.6	11854.1
72.5°	539.2	566.1	787.3	1309.6	3203.3	6424.6	10783.7	13929.7	15234.9	15057.4	10132.2
75°	269.6	314.5	530.1	664.9	1368.1	3583.0	6696.4	10982.5	11991.1	11303.7	6501.0
77.5°	204.4	247.1	438.1	438.1	476.2	1206.3	2836.1	5989.9	5525.0	4600.6	1908.2
80°	130.3	168.5	383.0	331.4	198.8	306.7	739.0	1678.0	1173.7	893.0	347.1
82.5°	76.4	110.1	319.0	219.0	111.2	113.5	208.9	357.2	304.4	237.0	106.7
85°	30.3	71.9	219.0	86.5	43.8	28.1	62.9	76.4	62.9	47.2	27.0
87.5°	0.0	16.8	38.2	0.0	3.4	2.3	4.5	5.6	5.6	4.5	9.0
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°	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3	2774.3
2.5°	2786.7	2788.8	2795.6	2796.7	2781.0	2760.7	2752.9	2749.6	2736.0	2734.9	2737.2
5°	2820.3	2830.4	2820.3	2791.1	2721.5	2623.8	2549.6	2489.0	2434.0	2417.1	2407.0
7.5°	2887.7	2897.8	2867.4	2752.9	2577.7	2383.4	2208.2	2084.6	1973.4	1931.9	1915.0
10°	2984.3	2997.8	2902.3	2670.9	2360.9	2048.7	1752.1	1543.2	1380.4	1314.2	1286.1
12.5°	3105.6	3111.2	2921.4	2546.3	2079.0	1633.1	1213.1	989.5	844.6	790.7	773.9
15°	3239.3	3231.4	2923.6	2376.7	1694.8	1154.7	791.8	650.4	591.9	573.9	573.9
17.5°	3379.6	3347.1	2878.7	2131.8	1273.7	789.6	587.4	553.7	543.7	539.2	538.0
20°	3517.8	3444.8	2796.7	1811.7	914.3	589.7	533.5	523.4	517.8	515.6	513.3
22.5°	3643.6	3518.9	2656.3	1439.9	663.8	521.1	504.3	495.3	485.2	480.7	479.6
25°	3766.1	3561.6	2458.7	1092.9	531.3	487.5	474.0	457.2	443.6	438.1	435.8
27.5°	3885.1	3588.5	2211.5	808.7	474.0	456.0	431.3	407.7	397.6	395.3	393.1
30°	4012.1	3597.5	1930.8	603.1	439.2	416.7	380.8	353.8	348.2	349.3	349.3
32.5°	4167.0	3611.1	1647.7	494.2	410.0	369.5	326.9	298.8	294.3	298.8	297.7
35°	4352.4	3638.0	1374.7	454.9	384.2	321.2	275.2	251.6	247.1	250.5	249.4
37.5°	4603.9	3681.8	1119.8	447.0	362.7	280.7	231.3	212.3	212.3	213.4	212.3
40°	4938.7	3798.6	891.9	441.4	351.6	250.5	195.5	187.6	191.0	193.2	193.2
42.5°	5346.4	4046.8	737.9	434.7	339.2	237.0	177.4	174.0	179.7	181.9	181.9
45°	5803.4	4361.3	684.0	423.4	328.0	246.0	169.6	165.1	171.9	173.0	174.0
47.5°	6276.4	4669.1	677.3	411.1	316.7	259.4	167.4	157.2	165.1	166.3	167.4
50°	6754.9	4870.1	684.0	392.0	298.8	259.4	168.5	149.3	156.1	159.5	160.6
52.5°	7236.7	4962.2	679.6	350.4	267.3	243.7	168.5	142.7	149.3	151.6	151.6
55°	7703.9	4944.3	611.0	288.6	226.8	215.7	164.0	137.0	141.6	142.7	142.7
57.5°	8073.4	4693.8	484.1	224.7	184.2	179.7	149.3	130.3	133.7	132.5	132.5
60°	8266.6	4143.5	345.9	173.0	144.9	141.6	131.4	121.3	123.5	118.0	116.8
62.5°	8268.9	3415.6	231.3	137.0	115.7	112.3	112.3	109.0	106.7	95.4	92.1
65°	8092.6	2608.0	153.9	109.0	93.3	87.6	94.3	93.3	85.4	69.6	67.3
67.5°	7692.7	1709.5	116.8	85.4	71.9	68.5	75.2	78.6	73.0	58.4	57.3
70°	6870.5	995.2	96.6	66.3	53.9	50.5	60.7	67.3	60.7	47.2	44.9
72.5°	5706.9	536.9	78.6	49.4	37.1	33.7	48.3	55.0	48.3	34.8	33.7
75°	3703.1	287.5	60.7	32.6	19.1	21.3	36.0	40.4	33.7	22.4	20.2
77.5°	1243.3	126.9	38.2	15.7	9.0	9.0	21.3	24.7	15.7	7.9	6.8
80°	277.5	52.8	15.7	6.8	3.4	3.4	4.5	4.5	2.3	0.0	0.0
82.5°	91.0	21.3	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.8	7.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.4	1.1	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)