

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: P968691

Luminaire Tested: **NAV-SB5C-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968691
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-SB5C-722-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA 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: 27121.5 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

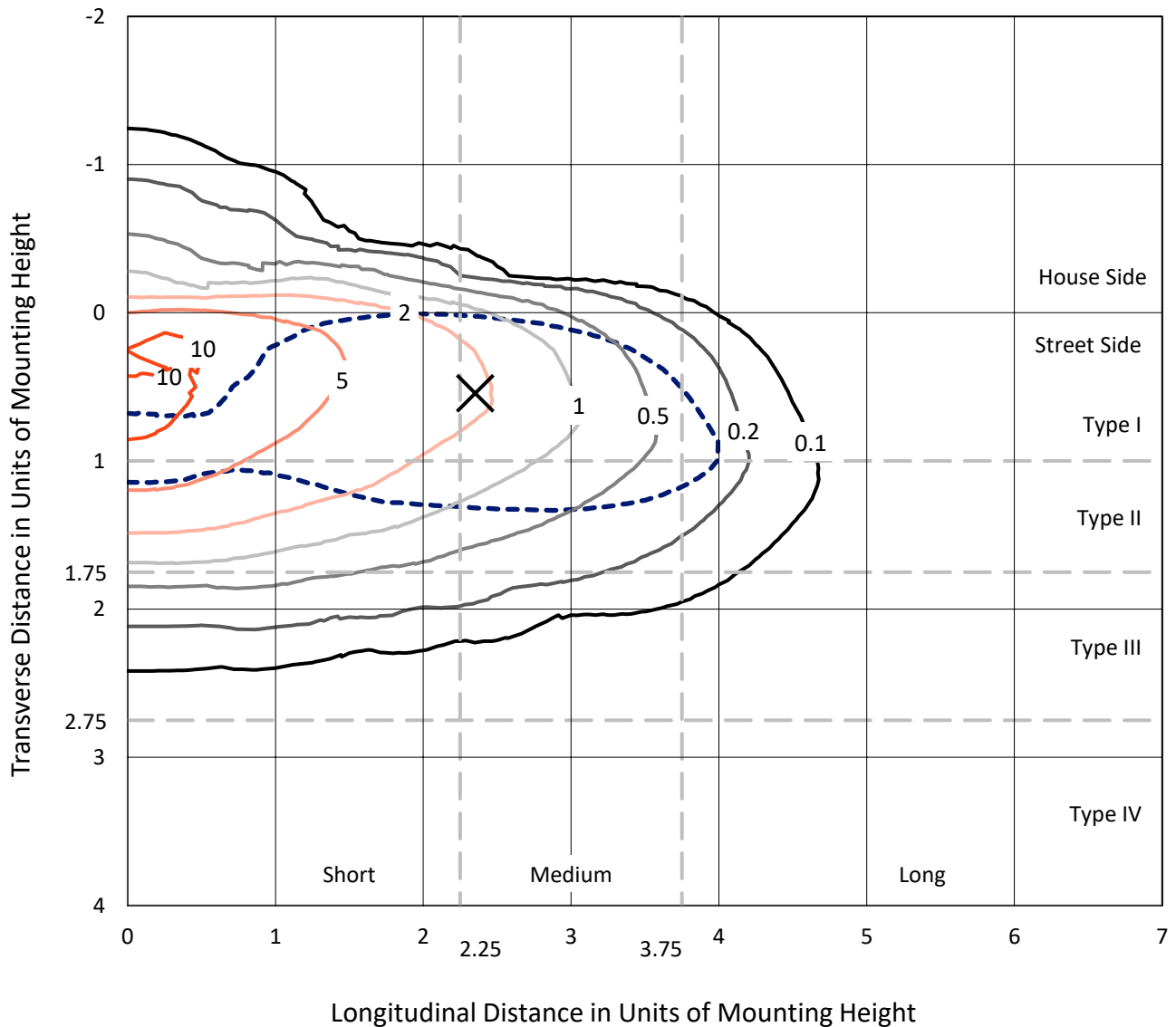
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

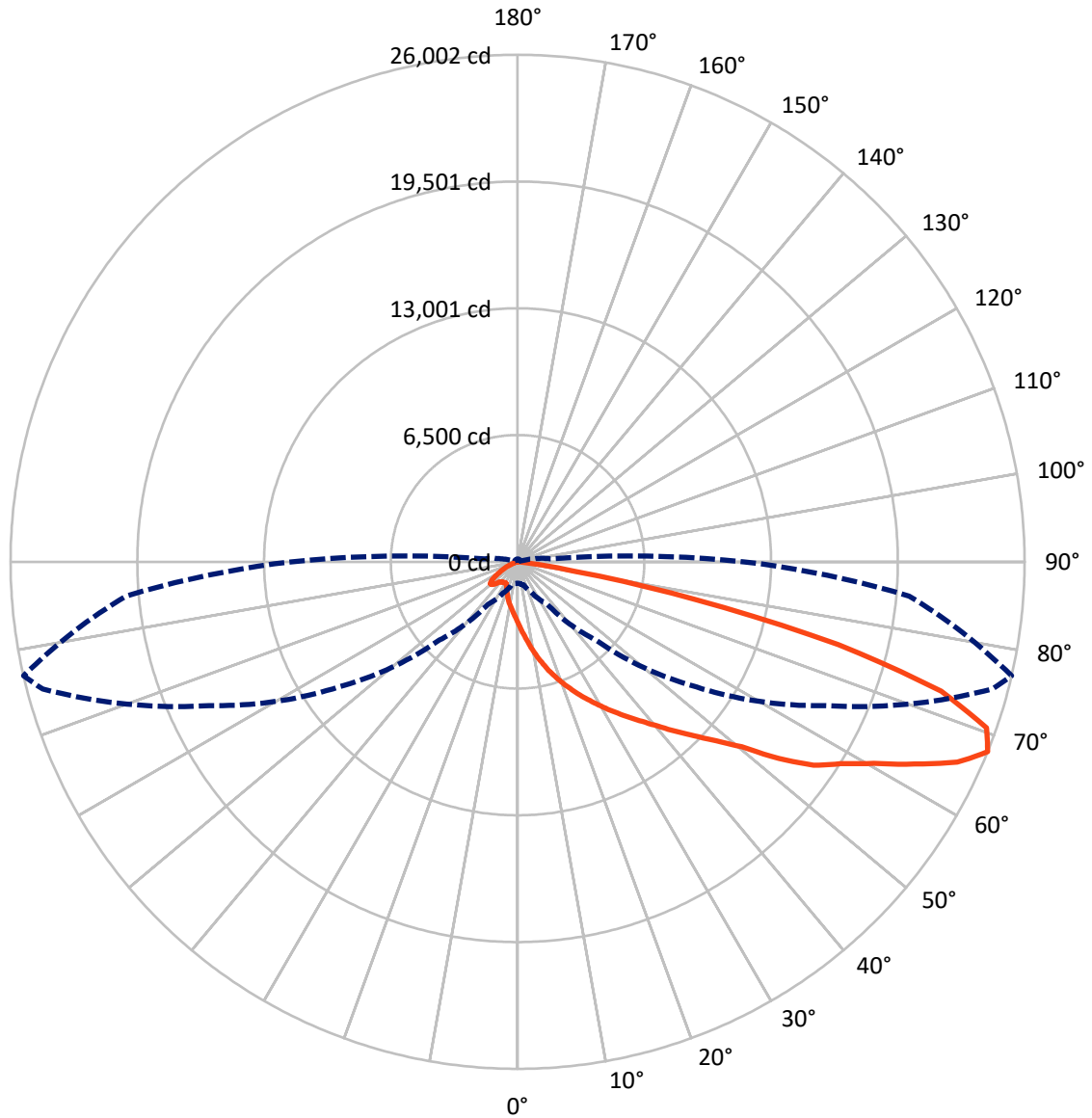
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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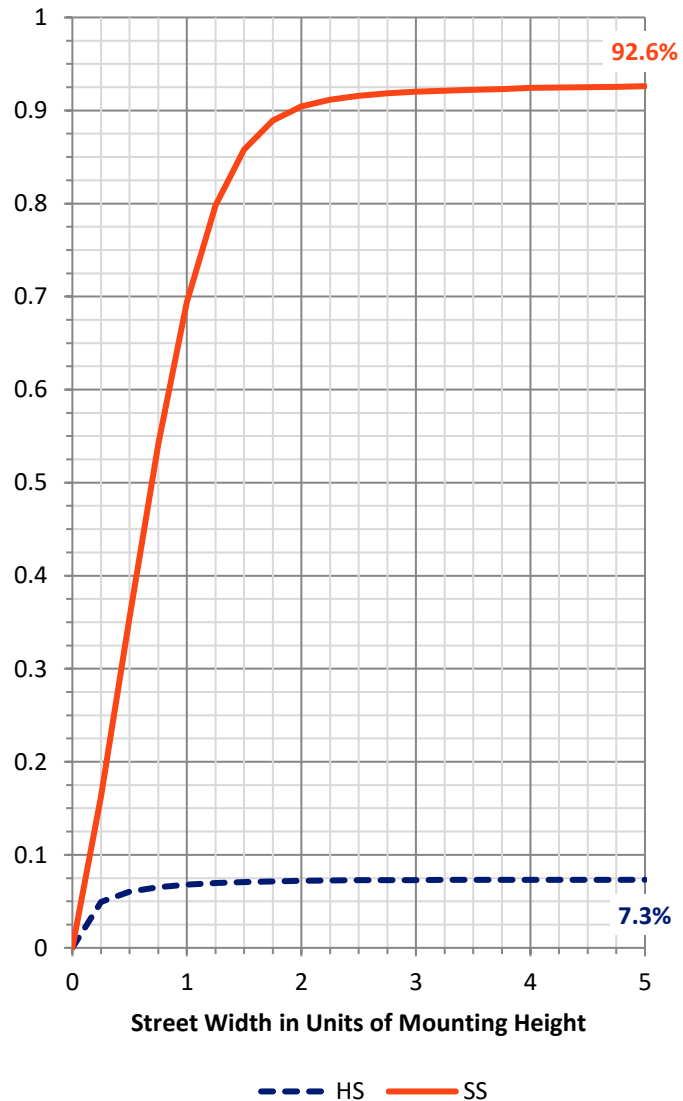
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1995.3	0.0	1995.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	25126.2	0.0	25126.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	27121.5	0.0	27121.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.2	1.2
10°-20°	1117.8	4.1
20°-30°	2157.1	8.0
30°-40°	3744.9	13.8
40°-50°	5437.4	20.0
50°-60°	6244.2	23.0
60°-70°	5421.1	20.0
70°-80°	2553.4	9.4
80°-90°	126.3	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°	27121.5	100.0
0°-180°	27121.5	100.0

Coefficient of Utilization

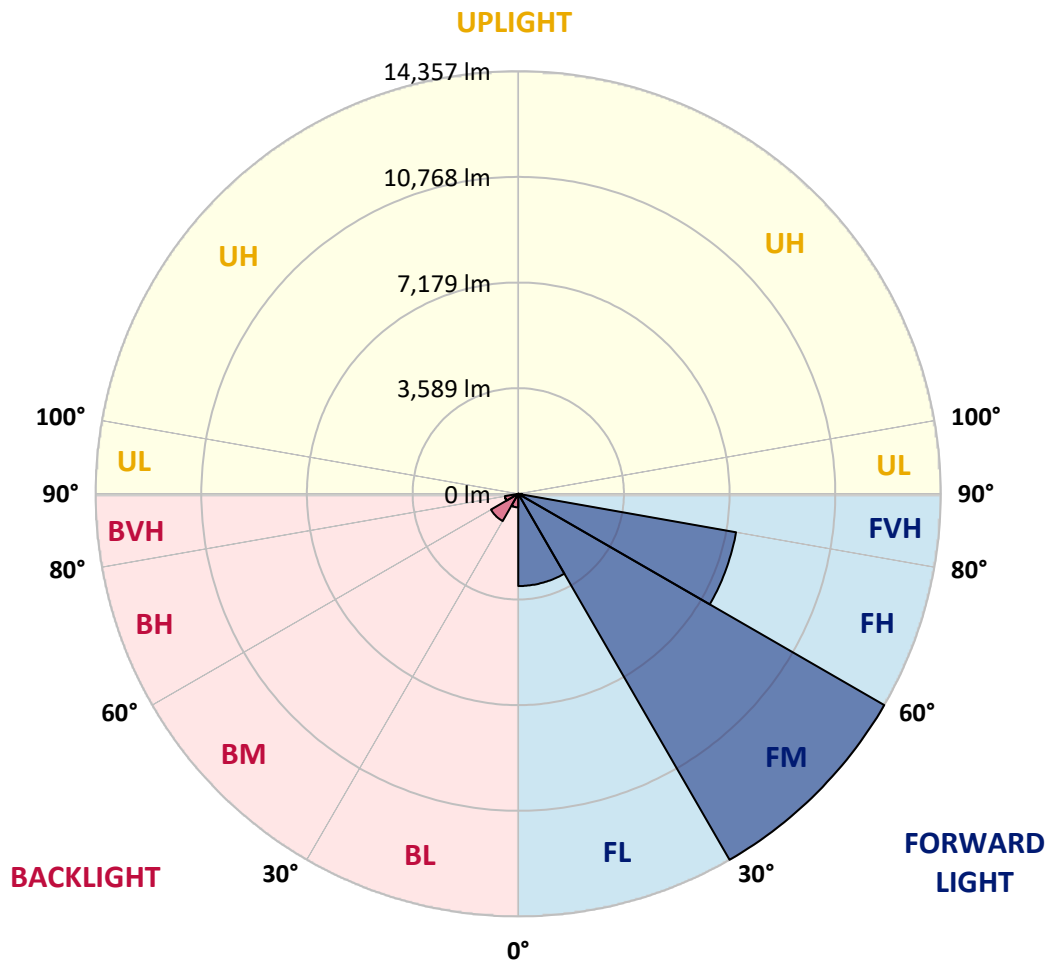


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3132.2	11.5			
FM (30°-60°)	14357.4	52.9			
FH (60°-80°)	7512.6	27.7			G4/12000
FVH (80°-90°)	124.0	0.5			G2/225
BL (0°-30°)	462.0	1.7	B1/500		
BM (30°-60°)	1069.1	3.9	B2/2500		
BH (60°-80°)	461.9	1.7	B1/500		G1/500
BVH (80°-90°)	2.3	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3127.5	3127.5	3127.5	3127.5	3127.5	3127.5	3127.5	3127.5	3127.5	3127.5	3127.5
2.5°	4330.0	4357.0	4318.2	4244.1	4133.0	4060.5	3883.7	3717.0	3531.7	3472.8	3287.5
5°	5278.2	5301.8	5257.9	5177.2	5029.0	4887.5	4655.0	4306.4	3944.3	3828.2	3499.8
7.5°	5980.5	5994.0	5977.1	5903.0	5761.5	5601.5	5342.2	4929.5	4392.3	4264.3	3760.7
10°	6485.8	6529.6	6524.4	6495.8	6401.5	6271.9	5995.6	5525.8	4894.2	4729.1	4055.5
12.5°	6820.9	6869.8	6898.4	6962.4	6957.3	6874.8	6632.3	6135.4	5394.4	5200.7	4387.3
15°	6918.5	6970.8	7080.3	7228.5	7359.8	7401.9	7231.8	6733.3	5945.1	5697.6	4727.5
17.5°	6863.0	6943.9	7075.2	7309.3	7597.3	7787.6	7769.1	7311.0	6445.3	6162.4	5060.9
20°	6986.0	7063.4	7166.2	7363.2	7698.4	8043.6	8181.8	7863.4	6942.1	6645.8	5411.3
22.5°	7666.4	7652.9	7663.0	7695.0	7895.4	8237.3	8522.0	8365.3	7433.9	7130.8	5781.7
25°	8744.2	8683.6	8580.9	8407.4	8356.8	8522.0	8818.3	8809.9	7952.7	7627.6	6160.7
27.5°	9980.4	9970.3	9729.5	9311.8	9076.0	9012.0	9153.5	9242.7	8466.3	8119.4	6541.3
30°	11164.4	11191.4	10866.2	10401.5	9968.6	9717.7	9589.7	9653.7	8988.4	8649.9	6933.7
32.5°	12195.0	12223.7	11870.0	11326.0	10790.5	10487.4	10217.9	10059.6	9557.7	9188.8	7364.9
35°	13065.8	13094.5	12688.6	12087.3	11516.4	11241.9	10937.1	10504.2	10130.3	9786.7	7844.8
37.5°	13843.9	13835.4	13291.5	12685.2	12124.3	11907.1	11747.1	11051.6	10719.8	10388.0	8377.1
40°	14303.7	14339.0	13874.2	13205.6	12661.6	12503.3	12493.2	11730.3	11400.2	11078.5	8959.8
42.5°	14438.5	14500.7	14163.9	13614.9	13121.4	12949.6	13214.0	12464.5	12191.8	11878.4	9618.3
45°	14195.8	14256.5	14103.3	13722.6	13434.7	13323.5	13833.8	13225.8	13037.2	12727.3	10361.0
47.5°	13488.5	13564.3	13601.3	13520.6	13517.2	13630.0	14389.6	14027.4	14041.0	13724.3	11221.6
50°	12119.3	12247.3	12587.5	12873.8	13316.8	13872.6	14930.1	14896.5	15172.7	14899.9	12343.3
52.5°	9630.1	9812.0	10984.2	11767.3	12762.7	13827.0	15524.6	16291.0	17158.3	16759.2	13924.7
55°	7738.7	7738.7	8692.0	10157.2	11681.4	13527.2	15784.1	17197.0	18510.8	18416.4	15038.0
57.5°	6308.9	6384.7	6992.7	8287.8	10116.9	12813.2	15944.1	17766.3	19600.4	19531.4	16125.9
60°	3893.8	4057.2	5205.8	6484.0	8336.6	11541.6	15843.0	18342.3	20922.5	20978.1	17436.3
62.5°	2192.8	2253.5	2765.4	4665.2	6482.4	9832.2	15070.0	18664.0	22613.3	22849.2	18786.9
65°	1514.0	1544.4	1741.5	2903.5	4493.4	7828.0	13559.3	18463.5	24307.7	24784.3	19932.1
67.5°	1099.7	1114.9	1237.9	1773.5	2666.0	5675.6	11191.4	17453.1	25205.4	26001.9	20151.1
70°	845.4	855.6	944.8	1165.4	1574.7	3503.0	8127.8	15443.9	24555.2	25506.8	19029.4
72.5°	687.2	697.2	766.3	862.3	1044.2	2071.5	4926.3	12542.0	21685.4	22712.8	16200.0
75°	579.3	592.9	655.2	717.5	818.5	1330.4	2310.7	8734.1	16307.9	16981.5	11265.5
77.5°	321.6	296.4	532.2	594.5	690.5	842.0	1081.3	5140.1	9133.3	9320.2	4998.6
80°	200.4	207.2	422.7	478.3	530.5	424.5	495.2	1978.9	3166.2	3008.0	968.4
82.5°	11.8	27.0	325.0	345.2	363.8	181.9	187.0	672.0	762.9	700.6	171.8
85°	0.0	0.0	148.2	119.6	126.3	52.2	53.9	156.6	102.7	111.1	33.7
87.5°	0.0	0.0	0.0	3.4	0.0	5.0	10.1	13.4	5.0	6.8	11.8
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°	3127.5	3127.5	3127.5	3127.5	3127.5	3127.5	3127.5	3127.5	3127.5	3127.5	3127.5
2.5°	3169.6	3051.7	2812.6	2578.5	2388.1	2211.3	2085.1	1965.4	1904.8	1901.5	1898.1
5°	3265.6	3018.0	2539.7	2117.0	1776.8	1504.0	1327.2	1200.8	1136.8	1114.9	1111.5
7.5°	3400.3	3028.2	2300.6	1712.8	1312.0	1077.9	976.8	936.4	922.9	907.7	904.4
10°	3570.5	3051.7	2086.7	1379.3	1034.1	916.1	875.8	859.0	848.8	838.8	835.4
12.5°	3760.7	3073.6	1874.5	1145.2	909.5	848.8	820.2	800.0	786.5	774.7	771.3
15°	3946.0	3087.1	1653.8	981.8	845.4	796.6	766.3	744.4	725.9	712.4	710.7
17.5°	4129.6	3105.6	1446.7	884.2	793.2	744.4	714.1	687.2	672.0	656.8	655.2
20°	4333.4	3102.3	1251.3	815.2	741.1	692.2	660.2	634.9	619.8	602.9	601.3
22.5°	4522.0	3085.4	1079.5	756.1	687.2	640.0	604.6	579.3	564.2	550.7	549.0
25°	4739.3	3071.9	936.4	702.3	636.6	589.5	550.7	527.2	510.3	498.6	496.8
27.5°	4948.1	3051.7	832.0	653.4	587.7	542.3	505.2	478.3	463.2	454.7	454.7
30°	5153.6	3046.7	793.2	606.3	544.0	498.6	461.5	436.2	424.5	421.1	419.3
32.5°	5401.1	3060.1	810.1	589.5	503.6	458.1	422.7	404.2	392.4	392.4	392.4
35°	5665.6	3056.8	835.4	604.6	476.6	417.7	390.7	378.9	367.2	367.2	367.2
37.5°	5997.4	3061.8	855.6	629.9	466.5	384.0	368.8	353.6	347.0	347.0	347.0
40°	6492.5	3228.5	845.4	651.8	463.2	360.4	330.0	325.0	320.0	320.0	320.0
42.5°	7098.7	3590.7	859.0	653.4	461.5	343.6	303.2	313.2	301.5	299.8	298.1
45°	7762.3	3986.4	944.8	618.1	459.8	335.2	289.7	301.5	282.9	282.9	282.9
47.5°	8420.9	4378.8	1032.4	567.5	454.7	333.4	277.9	271.1	266.1	267.8	267.8
50°	9328.6	4698.8	1066.1	498.6	442.9	330.0	256.0	257.7	254.3	257.7	257.7
52.5°	10317.2	4766.2	1025.6	421.1	409.3	320.0	240.9	247.5	245.9	249.3	249.3
55°	10933.7	4693.8	847.2	350.3	357.0	279.6	225.7	239.1	239.1	239.1	239.1
57.5°	11570.3	4385.6	601.3	284.6	296.4	229.1	212.2	230.7	229.1	227.3	227.3
60°	12028.4	3887.1	395.8	234.1	235.7	188.6	197.0	217.3	215.6	207.2	207.2
62.5°	12370.2	3336.4	254.3	198.7	180.2	170.1	180.2	197.0	190.3	171.8	168.4
65°	12331.5	2573.4	195.4	170.1	148.2	148.2	156.6	171.8	151.6	121.3	117.9
67.5°	11612.3	1741.5	161.6	143.2	124.6	122.9	129.7	143.2	129.7	102.7	99.3
70°	10327.4	1138.5	129.7	111.1	99.3	90.9	104.4	122.9	109.5	82.5	79.1
72.5°	8382.1	693.9	97.7	80.9	72.5	58.9	82.5	101.1	87.5	60.7	57.3
75°	5423.1	353.6	67.3	52.2	38.7	35.4	60.7	75.7	60.7	37.0	32.0
77.5°	2074.9	148.2	37.0	23.6	20.2	16.8	33.7	45.5	25.2	8.4	6.8
80°	399.1	62.3	18.6	11.8	10.1	6.8	5.0	3.4	0.0	0.0	0.0
82.5°	69.1	20.2	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	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)