

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: P885116

Luminaire Tested: **NAV-SB6B-730-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885116
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-730-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24568 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

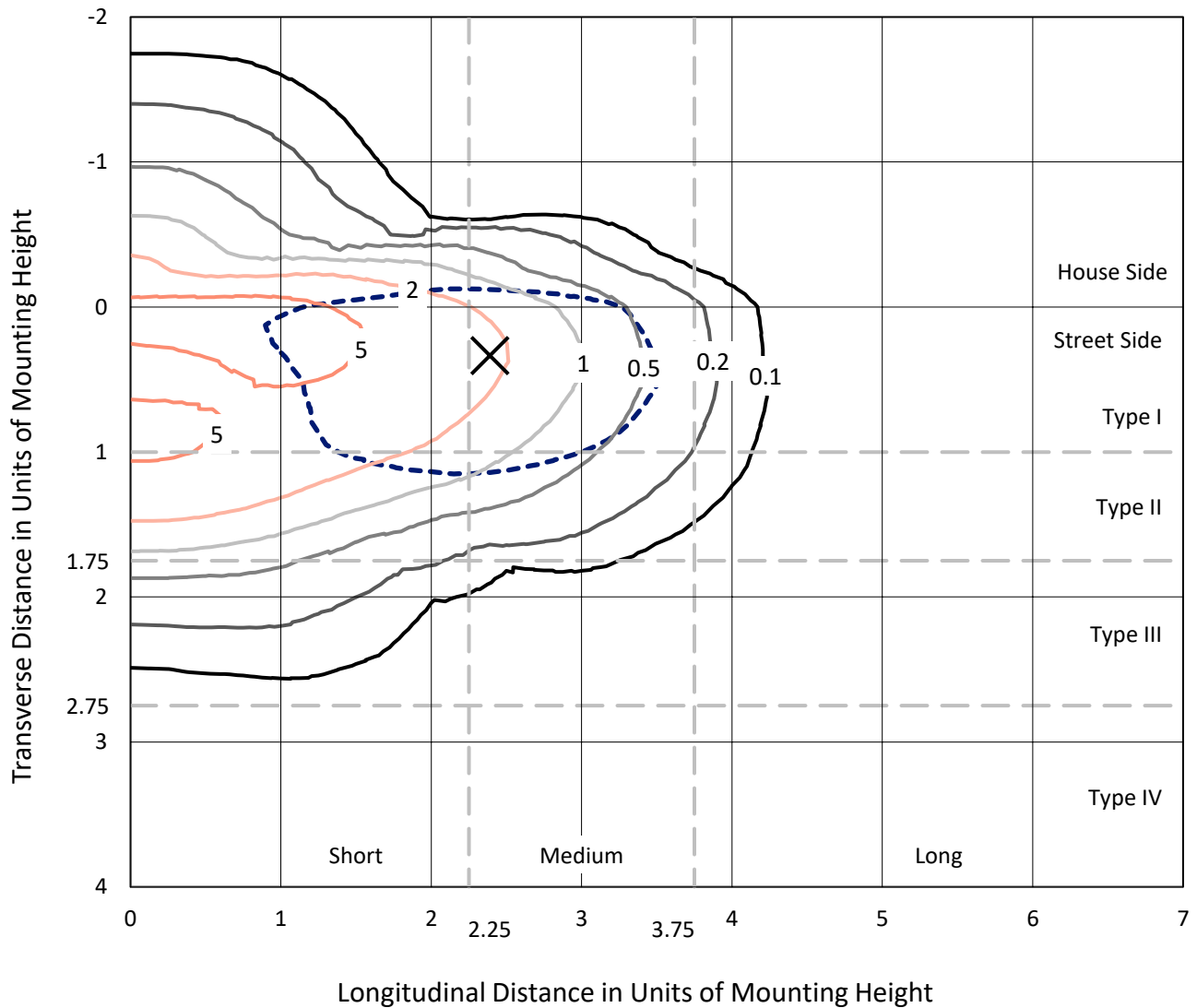
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

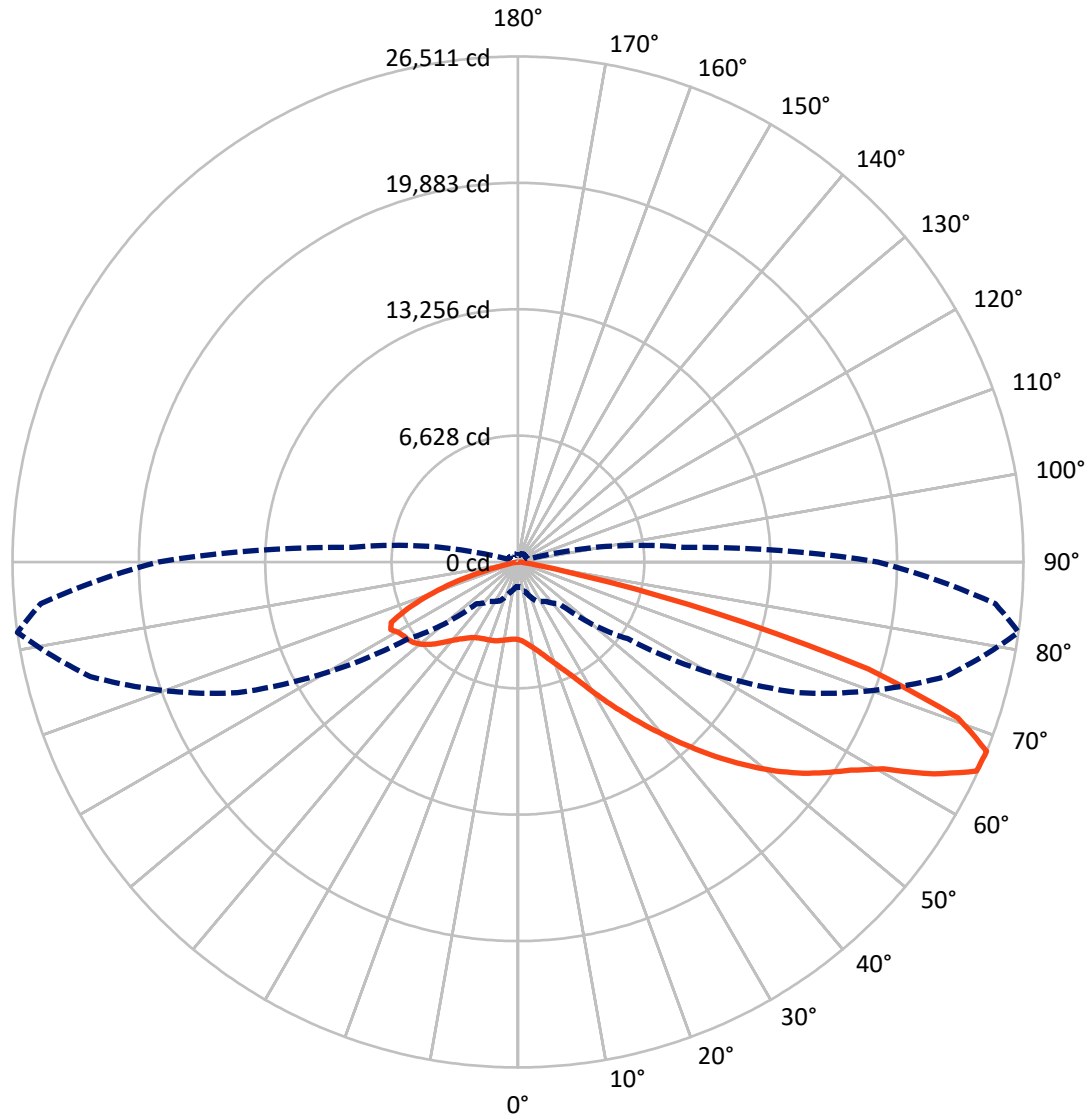
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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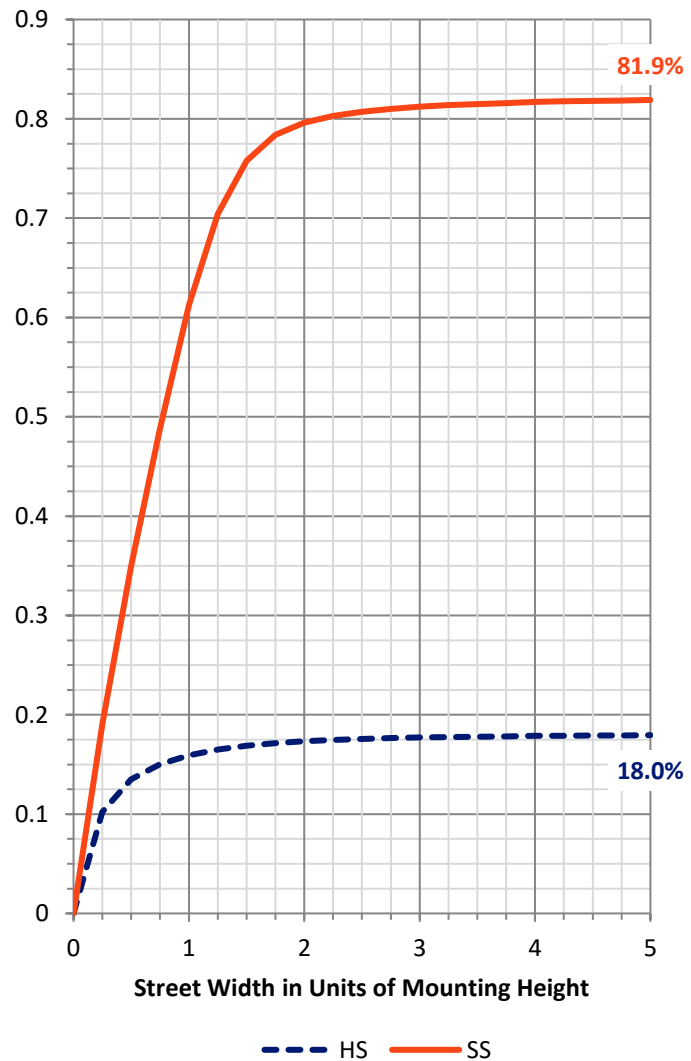
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4450.3	0.0	4450.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	20117.7	0.0	20117.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	24568.0	0.0	24568.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.6	1.5
10°-20°	942.3	3.8
20°-30°	1509.2	6.1
30°-40°	2668.8	10.9
40°-50°	4676.0	19.0
50°-60°	6236.5	25.4
60°-70°	5805.9	23.6
70°-80°	2228.3	9.1
80°-90°	138.4	0.6
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°	24568.0	100.0
0°-180°	24568.0	100.0



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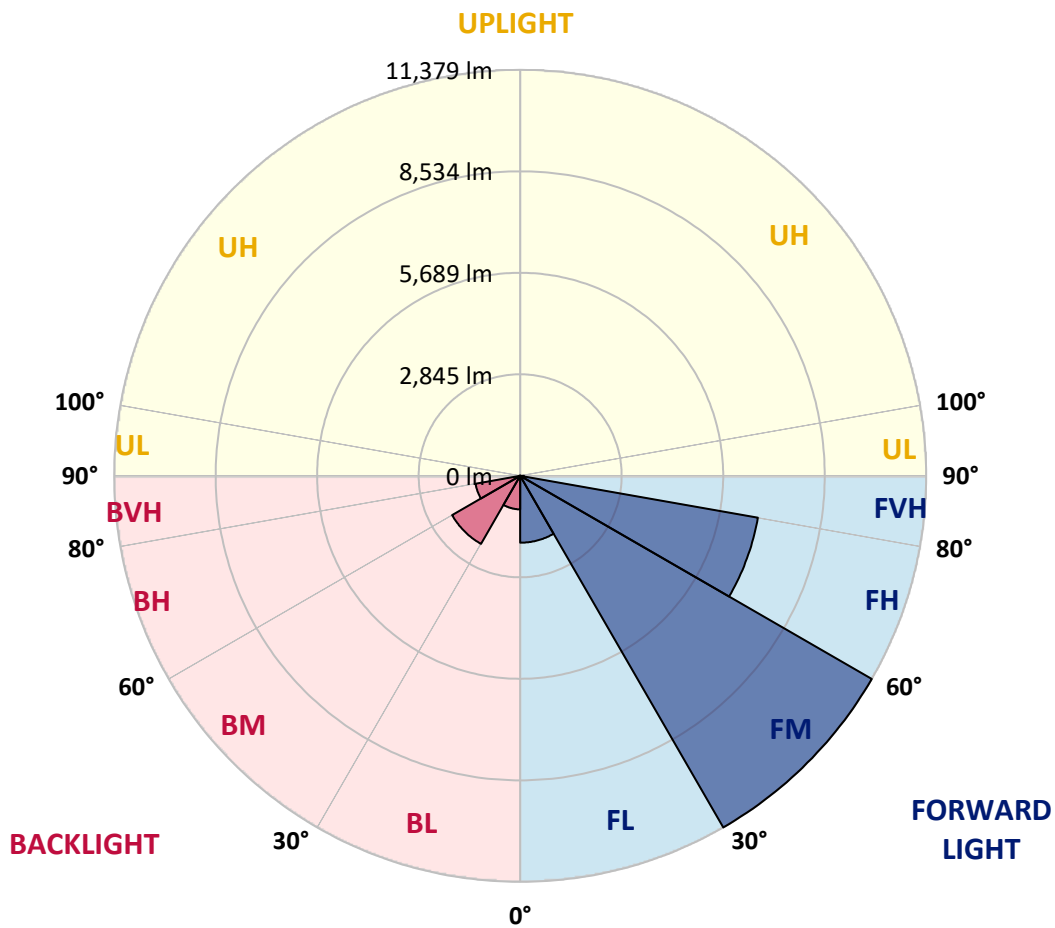
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1874.3	7.6			
FM (30°-60°)	11378.9	46.3			
FH (60°-80°)	6763.9	27.5			G3/7500
FVH (80°-90°)	100.6	0.4			G2/225
BL (0°-30°)	939.9	3.8	B2/1000		
BM (30°-60°)	2202.4	9.0	B2/2500		
BH (60°-80°)	1270.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	37.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4070.1	4070.1	4070.1	4070.1	4070.1	4070.1	4070.1	4070.1	4070.1	4070.1	4070.1
2.5°	4301.8	4326.6	4312.4	4305.3	4293.0	4275.3	4261.1	4216.9	4170.9	4140.8	4130.2
5°	4388.5	4413.2	4411.5	4418.5	4427.4	4432.7	4429.2	4379.6	4314.2	4262.9	4232.8
7.5°	4314.2	4342.5	4365.5	4400.9	4462.8	4528.2	4560.1	4549.4	4482.2	4411.5	4374.3
10°	4103.7	4133.8	4188.6	4271.7	4402.6	4544.1	4662.6	4717.5	4675.0	4597.2	4545.9
12.5°	3718.1	3748.2	3856.1	4036.5	4255.8	4501.7	4728.1	4874.9	4885.5	4807.7	4747.5
15°	3284.7	3314.8	3429.8	3656.2	3990.5	4384.9	4763.5	5041.2	5134.9	5067.7	4995.2
17.5°	3015.9	3042.4	3129.1	3311.3	3659.7	4151.5	4751.1	5218.1	5432.1	5379.0	5292.4
20°	2934.5	2957.5	2998.2	3125.5	3415.6	3909.1	4669.7	5384.3	5752.2	5722.2	5624.9
22.5°	3021.2	3042.4	3054.8	3111.4	3293.6	3749.9	4567.1	5554.1	6123.7	6127.2	6008.7
25°	3221.0	3242.3	3228.1	3263.5	3343.1	3700.4	4528.2	5754.0	6590.7	6629.6	6495.2
27.5°	3550.0	3551.8	3518.2	3516.4	3528.8	3774.7	4568.9	5968.0	7179.7	7252.2	7085.9
30°	4209.8	4183.3	4054.2	3914.4	3850.8	3997.6	4682.1	6221.0	7874.8	8004.0	7795.2
32.5°	5226.9	5188.0	4951.0	4616.7	4280.6	4356.6	4885.5	6509.3	8631.9	8865.4	8610.7
35°	6330.7	6320.0	6072.4	5575.4	4988.1	4867.8	5216.3	6887.8	9458.0	9829.4	9526.9
37.5°	7356.6	7351.3	7209.8	6624.3	5909.7	5580.7	5746.9	7383.1	10342.4	10880.1	10522.8
40°	8294.1	8310.0	8168.5	7644.9	6925.0	6495.2	6468.6	7995.1	11325.8	12024.5	11600.0
42.5°	9104.2	9121.9	8978.6	8591.2	7927.9	7506.9	7354.8	8745.1	12286.3	13253.9	12751.5
45°	9654.3	9764.0	9742.7	9433.2	8957.4	8520.5	8419.6	9686.1	13381.2	14557.5	13968.5
47.5°	9810.0	9910.8	10070.0	10112.4	9822.3	9392.5	9512.8	10820.0	14488.5	15862.9	15192.5
50°	9426.1	9519.9	9850.6	10291.1	10492.7	10360.1	10575.9	12035.1	15622.3	17164.8	16393.6
52.5°	8669.1	8764.6	9182.0	9878.9	10701.4	11118.9	11642.5	13232.6	16720.8	18397.6	17530.9
55°	7574.1	7675.0	8210.9	8999.8	10303.5	11432.0	12532.2	14428.4	17727.3	19506.7	18556.8
57.5°	6084.8	6159.1	6716.3	7820.0	9302.3	11120.7	13188.4	15733.8	18675.3	20596.3	19573.9
60°	3965.7	4031.2	4678.6	5909.7	7643.1	10080.6	13319.3	17189.5	19934.8	22013.1	20944.8
62.5°	2637.3	2681.6	3065.4	3969.3	5382.6	8083.6	12553.4	18351.6	21781.4	24478.9	23295.5
65°	1809.5	1853.7	2237.6	2867.3	3477.5	5347.2	10351.2	18197.8	23454.7	26437.0	25037.8
67.5°	1291.2	1328.4	1653.9	2248.2	2517.1	3106.1	7017.0	16230.8	23214.2	26511.3	25131.6
70°	925.1	946.3	1215.2	1751.1	2000.6	1866.1	3902.0	12413.7	20325.7	24480.7	23217.7
72.5°	647.4	654.5	843.7	1333.7	1611.4	1362.0	1857.3	8276.4	15372.9	19214.8	17999.7
75°	438.7	447.5	567.8	978.2	1293.0	1040.1	983.5	4438.0	9024.6	10636.0	9534.0
77.5°	268.9	272.4	366.1	668.6	967.6	792.4	633.2	1880.3	3491.7	3428.0	2922.1
80°	152.1	152.1	233.5	415.7	659.8	511.2	444.0	799.5	1105.5	971.1	856.1
82.5°	84.9	86.7	169.8	258.2	436.9	302.5	244.1	369.7	477.6	422.8	367.9
85°	35.4	38.9	104.4	122.0	208.7	150.4	99.1	155.7	176.9	157.4	115.0
87.5°	3.5	5.3	31.8	23.0	24.8	30.1	14.2	30.1	24.8	24.8	17.7
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°	4070.1	4070.1	4070.1	4070.1	4070.1	4070.1	4070.1	4070.1	4070.1	4070.1	4070.1
2.5°	4096.6	4070.1	4002.9	3925.0	3822.4	3772.9	3705.7	3659.7	3620.8	3624.3	3589.0
5°	4176.2	4109.0	3958.6	3771.2	3537.7	3371.4	3194.5	3072.5	2973.4	2952.2	2904.4
7.5°	4285.9	4179.8	3916.2	3578.4	3183.9	2885.0	2617.9	2446.3	2324.2	2285.3	2246.4
10°	4427.4	4273.5	3861.4	3336.0	2768.2	2387.9	2101.4	1966.9	1883.8	1855.5	1834.3
12.5°	4591.9	4381.4	3788.8	3040.6	2340.2	1974.0	1791.8	1724.6	1698.1	1689.2	1683.9
15°	4798.8	4515.8	3679.2	2690.4	1977.6	1721.1	1643.2	1634.4	1637.9	1634.4	1632.6
17.5°	5044.7	4662.6	3500.5	2329.6	1733.5	1592.0	1563.6	1570.7	1579.6	1577.8	1574.3
20°	5313.6	4807.7	3272.3	2009.4	1567.2	1500.0	1484.1	1491.1	1498.2	1494.7	1492.9
22.5°	5619.6	4963.3	3019.4	1760.0	1455.8	1415.1	1397.4	1399.1	1399.1	1392.1	1388.5
25°	5985.7	5134.9	2754.1	1583.1	1370.8	1339.0	1317.8	1310.7	1300.1	1278.9	1275.3
27.5°	6422.6	5317.1	2499.4	1459.3	1303.6	1273.6	1248.8	1231.1	1204.6	1169.2	1165.7
30°	6914.4	5538.2	2283.6	1381.5	1250.6	1220.5	1192.2	1165.7	1126.7	1082.5	1079.0
32.5°	7492.8	5775.2	2126.1	1330.2	1202.8	1171.0	1137.4	1105.5	1063.1	1018.8	1020.6
35°	8182.6	6061.8	2034.2	1294.8	1165.7	1123.2	1086.1	1050.7	1018.8	979.9	976.4
37.5°	8930.8	6366.0	2005.9	1277.1	1140.9	1075.5	1033.0	1008.2	1004.7	981.7	979.9
40°	9749.8	6726.9	2027.1	1266.5	1114.4	1029.5	983.5	978.2	987.0	946.3	948.1
42.5°	10616.5	7154.9	2062.5	1254.1	1077.2	983.5	939.3	939.3	932.2	875.6	875.6
45°	11554.0	7648.4	2097.8	1224.0	1033.0	937.5	903.9	891.5	861.4	806.6	804.8
47.5°	12498.6	8150.8	2124.4	1169.2	979.9	898.6	868.5	840.2	796.0	746.4	744.7
50°	13395.4	8601.8	2096.1	1087.8	919.8	861.4	829.6	790.7	742.9	709.3	704.0
52.5°	14196.7	8992.8	1975.8	992.3	856.1	822.5	794.2	753.5	714.6	679.2	675.7
55°	14893.6	9309.4	1763.5	902.1	799.5	788.9	760.6	709.3	656.2	626.2	622.6
57.5°	15562.2	9549.9	1498.2	827.8	748.2	751.8	709.3	663.3	613.8	581.9	578.4
60°	16451.9	9871.9	1229.3	758.8	693.4	704.0	658.0	624.4	562.5	521.8	516.5
62.5°	17874.1	10372.4	976.4	673.9	629.7	633.2	613.8	573.1	498.8	451.1	447.5
65°	19002.6	10188.5	769.4	581.9	557.2	562.5	562.5	518.3	438.7	383.8	378.5
67.5°	18875.2	8723.9	613.8	491.7	488.2	491.7	504.1	467.0	389.1	344.9	337.8
70°	17387.6	6939.1	491.7	408.6	424.5	415.7	451.1	426.3	350.2	306.0	300.7
72.5°	14187.8	4998.7	375.0	337.8	325.5	339.6	406.8	383.8	291.9	242.3	237.0
75°	8290.5	2667.4	279.5	267.1	235.3	283.0	360.8	327.2	222.9	178.7	173.3
77.5°	2699.2	930.4	205.2	196.3	175.1	228.2	307.8	275.9	182.2	141.5	136.2
80°	723.5	281.2	139.7	129.1	113.2	169.8	244.1	219.3	130.9	92.0	90.2
82.5°	290.1	118.5	81.4	72.5	61.9	116.7	192.8	176.9	97.3	58.4	58.4
85°	93.7	38.9	30.1	23.0	28.3	72.5	115.0	120.3	69.0	30.1	23.0
87.5°	12.4	5.3	5.3	7.1	5.3	12.4	35.4	33.6	19.5	3.5	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)