

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: P971058

Luminaire Tested: **NAV-SB6C-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971058
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-SB6C-830-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA 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: 32218.8 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

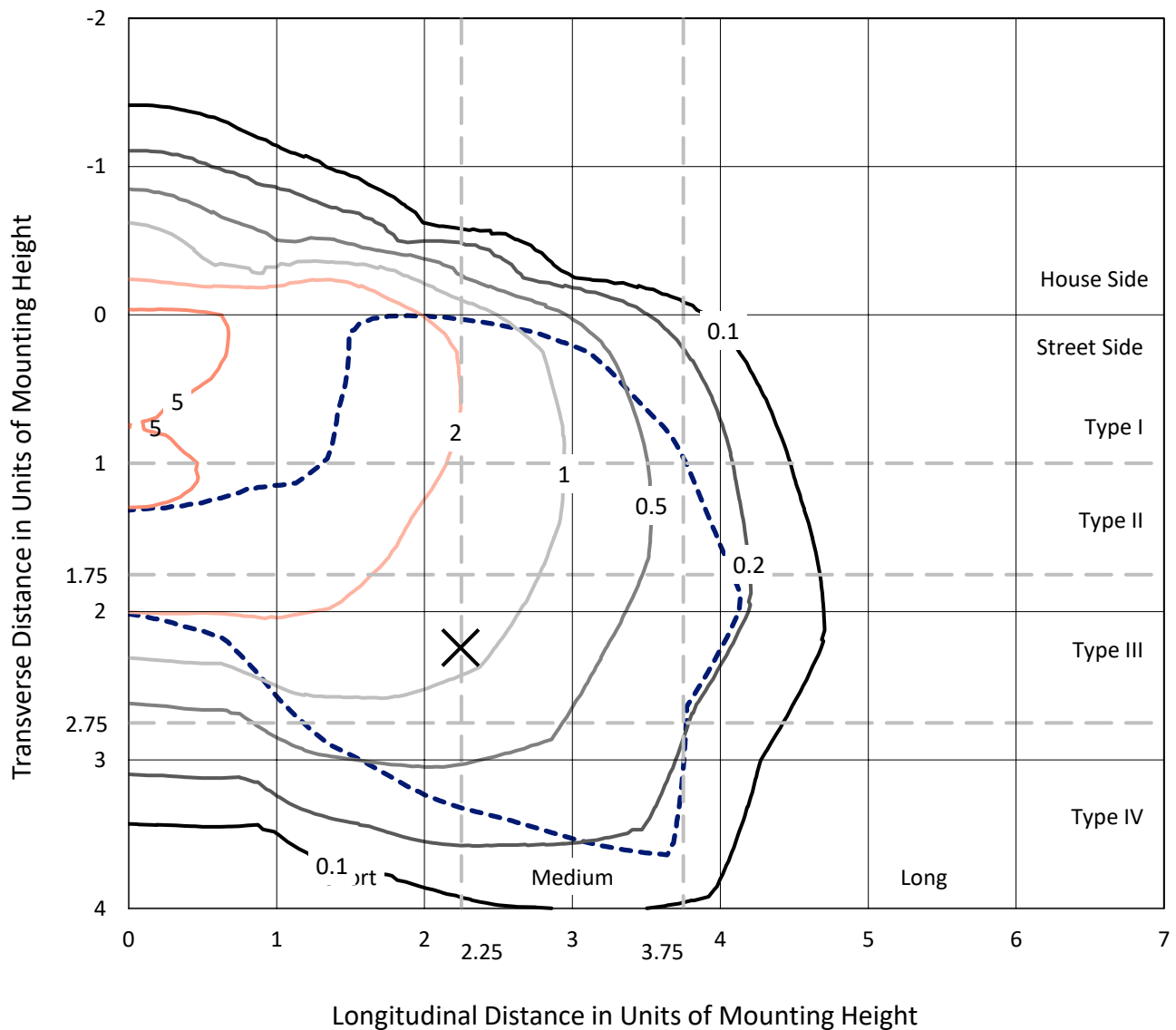
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

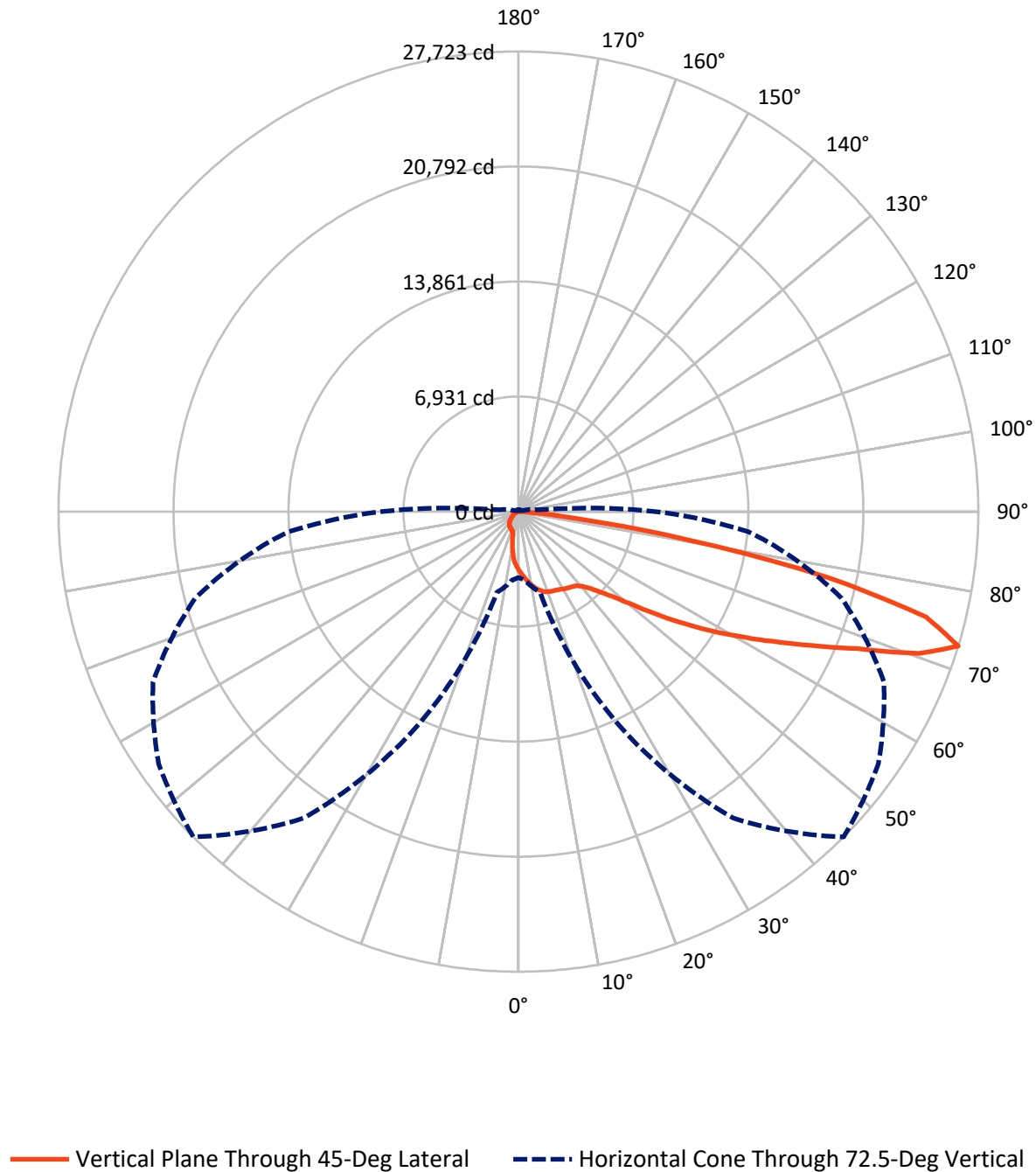
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3385.3	0.0	3385.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	28833.5	0.0	28833.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	32218.8	0.0	32218.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.6	1.0
10°-20°	971.9	3.0
20°-30°	1596.1	5.0
30°-40°	2263.6	7.0
40°-50°	3741.5	11.6
50°-60°	6721.2	20.9
60°-70°	9332.8	29.0
70°-80°	6769.7	21.0
80°-90°	489.4	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°	32218.8	100.0
0°-180°	32218.8	100.0

Coefficient of Utilization



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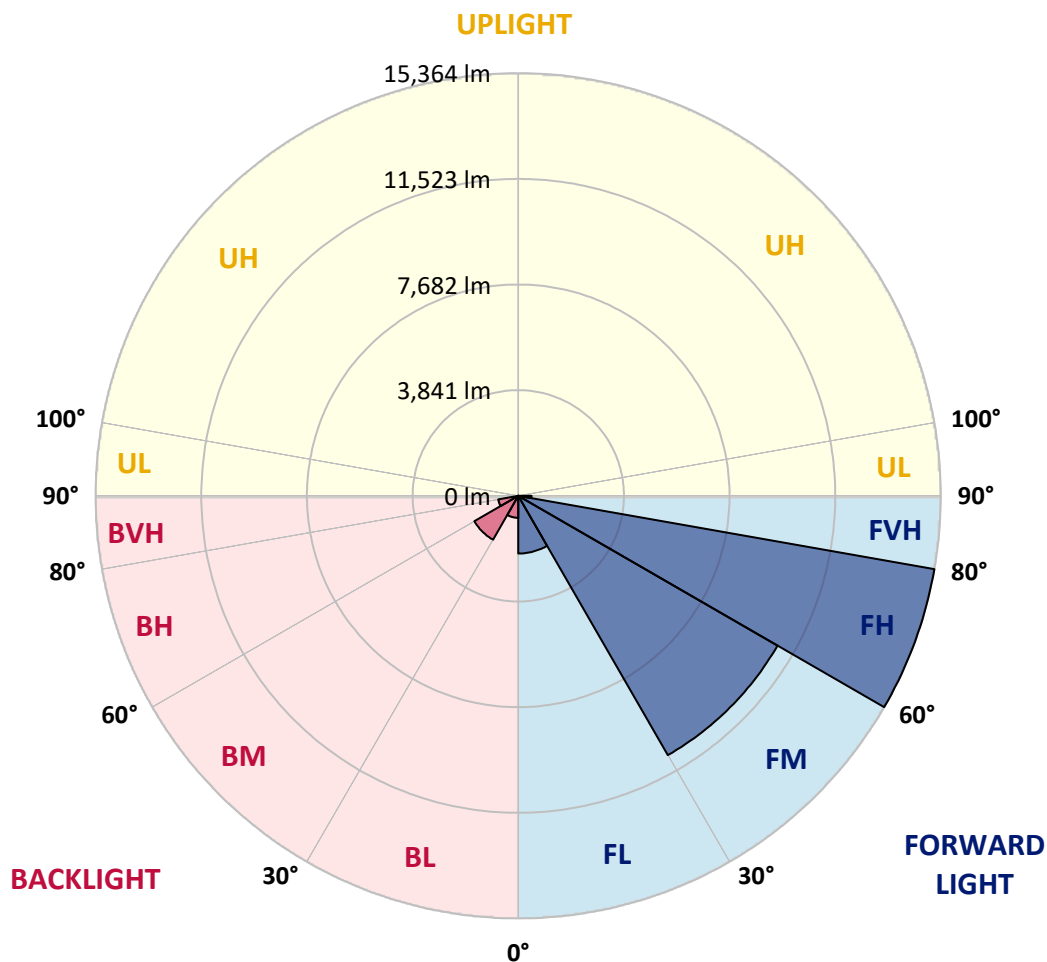
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2098.7	6.5			
FM	(30°-60°)	10885.2	33.8			
FH	(60°-80°)	15364.3	47.7			G5
FVH	(80°-90°)	485.3	1.5			G3/500
BL	(0°-30°)	801.8	2.5	B2/1000		
BM	(30°-60°)	1841.1	5.7	B2/2500		
BH	(60°-80°)	738.2	2.3	B2/1000		G2/1000
BVH	(80°-90°)	4.1	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7
2.5°	3855.1	3861.7	3857.3	3830.9	3787.0	3762.8	3749.6	3705.6	3677.0	3626.4	3573.7
5°	4209.2	4235.6	4220.1	4167.4	4083.8	4024.5	4006.8	3916.7	3835.3	3740.7	3630.8
7.5°	4585.2	4598.5	4569.9	4501.7	4389.5	4288.4	4272.9	4147.6	4017.9	3872.8	3723.2
10°	4910.7	4926.2	4882.1	4783.2	4655.7	4530.3	4508.3	4369.7	4215.8	4037.7	3846.3
12.5°	5183.4	5198.8	5141.6	5022.9	4882.1	4752.4	4730.4	4585.2	4415.9	4218.0	3980.5
15°	5390.2	5418.7	5341.8	5214.2	5062.5	4932.7	4921.7	4778.8	4613.8	4393.9	4141.0
17.5°	5511.1	5539.7	5467.1	5313.2	5183.4	5073.4	5060.2	4941.5	4787.6	4576.4	4297.1
20°	5530.9	5557.2	5480.3	5346.1	5238.4	5150.4	5143.9	5058.1	4945.9	4743.6	4466.4
22.5°	5471.4	5504.5	5434.1	5326.3	5251.6	5205.4	5196.6	5148.3	5084.4	4912.9	4624.8
25°	5410.0	5436.3	5383.5	5289.0	5249.3	5245.0	5251.6	5242.8	5229.5	5084.4	4809.5
27.5°	5405.5	5434.1	5374.7	5284.6	5262.6	5308.8	5315.3	5357.2	5368.1	5240.6	4987.6
30°	5443.0	5462.7	5405.5	5310.9	5300.0	5405.5	5407.7	5482.5	5500.0	5372.5	5163.6
32.5°	5524.2	5546.3	5489.1	5350.5	5335.1	5482.5	5489.1	5588.1	5616.6	5513.3	5348.3
35°	5715.6	5741.9	5676.0	5460.5	5405.5	5555.1	5574.9	5691.4	5748.6	5662.8	5539.7
37.5°	6192.8	6115.9	6025.7	5682.6	5566.1	5669.4	5702.4	5838.7	5939.9	5841.0	5768.4
40°	7378.2	7136.3	6854.8	6060.8	5847.5	5913.5	5939.9	6076.3	6214.8	6118.0	6082.9
42.5°	9157.2	8871.4	8418.3	6931.8	6272.0	6305.0	6324.8	6443.6	6639.2	6562.3	6571.1
45°	10742.8	10639.5	10177.6	8418.3	7065.8	6903.2	6927.4	6988.9	7277.0	7248.4	7305.6
47.5°	11961.2	11901.8	11545.6	10124.9	8407.4	7635.4	7703.6	7732.2	8147.8	8249.0	8402.9
50°	12898.0	12876.0	12557.2	11642.4	10160.1	8715.3	8739.5	8677.9	9300.2	9550.9	9843.4
52.5°	13782.0	13856.9	13621.5	13051.9	12031.6	10129.3	10124.9	9834.6	10674.7	11053.0	11552.2
55°	14580.4	14606.8	14631.0	14490.2	13914.1	11739.1	11697.3	11222.3	12269.0	12660.5	13201.5
57.5°	15330.3	15341.3	15556.8	15844.9	15873.5	13467.6	13390.6	12821.1	14010.8	14290.1	14622.1
60°	15833.9	15884.5	16339.7	17140.2	17489.9	15251.1	15209.4	14628.8	15783.4	15913.0	15851.5
62.5°	15108.2	15416.1	16564.0	18151.8	19016.1	17228.2	17208.4	16663.0	17648.2	17542.7	17014.9
65°	12229.5	12750.7	14769.5	18835.7	20513.7	19436.2	19464.8	18884.1	19563.7	19220.6	17960.5
67.5°	8554.8	9104.5	11492.8	18890.8	22187.3	22028.9	22193.8	21283.4	21597.9	20828.2	18184.8
70°	5915.7	6199.4	7754.2	17707.6	23491.4	25600.3	25596.0	24230.3	23621.1	21560.5	17041.2
72.5°	3978.2	4125.6	5036.0	14048.2	22532.5	27722.6	27594.9	26482.2	24302.9	20164.0	13922.9
75°	1677.9	1785.8	2331.1	7895.0	17826.3	25362.8	25017.6	23403.4	21593.5	15877.9	8686.7
77.5°	532.2	578.4	919.2	2825.9	9819.2	19064.5	18699.4	14615.6	14472.6	7965.4	3175.6
80°	252.9	294.7	516.8	1134.8	3863.9	10369.0	10318.5	6630.4	6225.8	2150.8	637.8
82.5°	110.0	129.8	285.9	607.0	1728.6	3699.0	3773.7	2256.3	1867.0	815.9	195.8
85°	35.2	46.2	131.9	279.3	730.1	919.2	908.3	536.6	752.1	444.2	68.2
87.5°	0.0	0.0	44.0	63.8	74.7	52.8	59.3	46.2	208.9	123.1	24.2
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°	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7	3529.7
2.5°	3547.2	3512.1	3450.5	3393.3	3342.7	3292.1	3261.3	3217.4	3213.0	3213.0	3223.9
5°	3571.4	3514.2	3404.3	3287.7	3153.6	3026.0	2898.5	2775.3	2735.7	2707.1	2720.4
7.5°	3641.8	3551.6	3377.9	3155.8	2900.6	2621.4	2425.7	2214.5	2133.1	2089.2	2095.8
10°	3743.0	3619.8	3356.0	2966.7	2553.2	2172.8	1893.5	1664.8	1576.8	1539.4	1539.4
12.5°	3855.1	3703.3	3316.3	2731.3	2172.8	1717.5	1444.8	1339.3	1326.0	1326.0	1326.0
15°	3989.3	3804.5	3248.1	2454.3	1774.7	1359.0	1262.3	1266.7	1279.9	1288.7	1288.7
17.5°	4127.8	3912.3	3140.4	2144.2	1422.8	1222.7	1225.0	1231.5	1242.5	1251.3	1251.3
20°	4277.3	4020.0	2997.4	1814.4	1220.6	1183.2	1189.7	1196.4	1205.1	1209.5	1211.8
22.5°	4437.8	4121.2	2828.1	1491.1	1152.4	1150.2	1152.4	1159.0	1169.9	1169.9	1174.3
25°	4609.4	4233.4	2634.6	1255.7	1117.1	1117.1	1121.6	1126.0	1134.8	1134.8	1136.9
27.5°	4785.3	4336.8	2430.1	1132.5	1086.4	1084.1	1084.1	1090.8	1095.2	1097.4	1099.6
30°	4978.8	4457.7	2225.6	1106.2	1062.2	1051.2	1044.6	1049.0	1053.4	1055.5	1060.0
32.5°	5176.8	4574.3	2043.0	1117.1	1038.0	1018.2	996.2	991.8	991.8	1000.6	1007.2
35°	5396.7	4701.8	1902.3	1154.6	1024.8	969.9	934.6	914.8	917.1	930.3	936.8
37.5°	5660.7	4855.7	1798.9	1187.6	1016.0	914.8	857.7	833.5	818.1	833.5	829.1
40°	6005.9	5082.3	1724.2	1213.9	1005.0	851.1	774.1	734.5	705.9	714.7	710.3
42.5°	6513.9	5438.5	1695.6	1216.2	980.8	776.3	688.3	635.6	593.8	595.9	587.2
45°	7226.5	6001.5	1842.8	1187.6	928.0	694.9	598.2	527.8	501.4	494.8	486.1
47.5°	8202.9	6821.8	2183.8	1128.1	851.1	615.7	510.2	450.8	431.0	420.0	413.5
50°	9511.4	7875.2	2562.0	1062.2	774.1	541.0	437.7	400.3	387.0	376.1	373.8
52.5°	11028.8	8943.9	2872.0	996.2	697.1	475.0	391.4	369.4	358.4	349.6	347.5
55°	12420.8	9680.7	2854.5	925.9	622.4	422.2	358.4	345.2	332.1	323.3	318.9
57.5°	13287.3	9784.0	2353.1	848.9	536.6	380.5	327.7	318.9	303.5	292.5	290.3
60°	13685.3	9194.7	1649.3	747.7	450.8	340.9	294.7	290.3	270.5	255.1	250.7
62.5°	13757.9	8099.4	1099.6	622.4	376.1	303.5	261.7	255.1	228.7	202.3	189.1
65°	13463.2	6533.7	760.9	486.1	321.0	263.9	224.3	211.2	182.6	156.1	147.3
67.5°	12530.7	4587.4	530.0	349.6	272.6	208.9	178.1	173.7	151.7	129.8	123.1
70°	10822.1	2614.8	354.0	261.7	215.6	143.0	140.7	145.1	123.1	105.6	96.8
72.5°	8297.4	1196.4	220.0	191.4	147.3	96.8	112.1	114.4	94.6	79.1	70.4
75°	4884.3	512.4	138.6	123.1	74.7	63.8	81.4	83.5	63.8	50.5	44.0
77.5°	1662.6	193.5	87.9	72.6	37.4	35.2	52.8	52.8	35.2	19.8	15.4
80°	378.2	72.6	44.0	28.6	17.6	15.4	17.6	15.4	8.8	2.2	0.0
82.5°	107.7	28.6	17.6	11.0	6.6	6.6	2.2	0.0	0.0	0.0	0.0
85°	30.7	13.2	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.2	2.2	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)