

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: P971055

Luminaire Tested: **NAV-SB6C-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-830-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41855.9 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

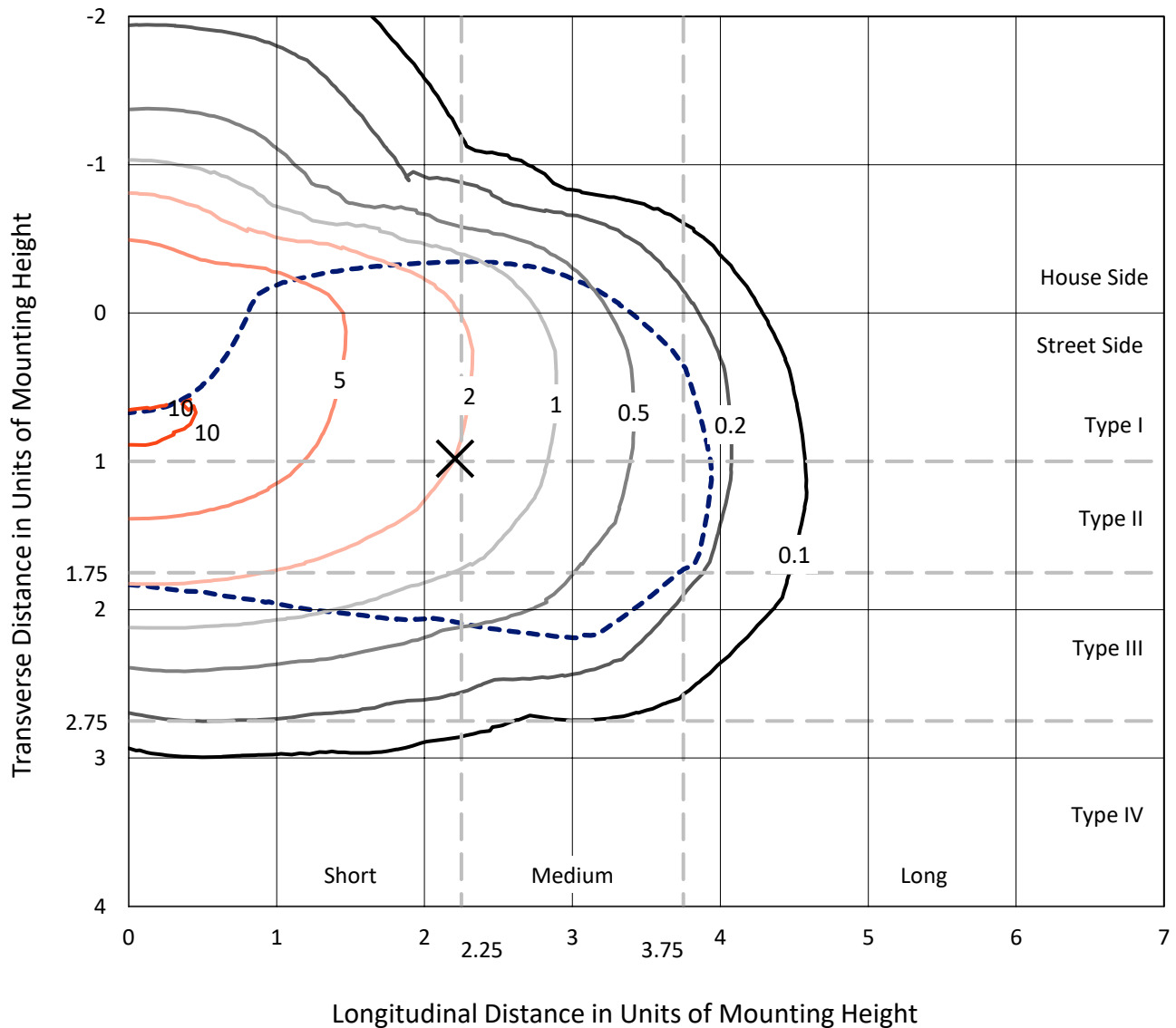
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

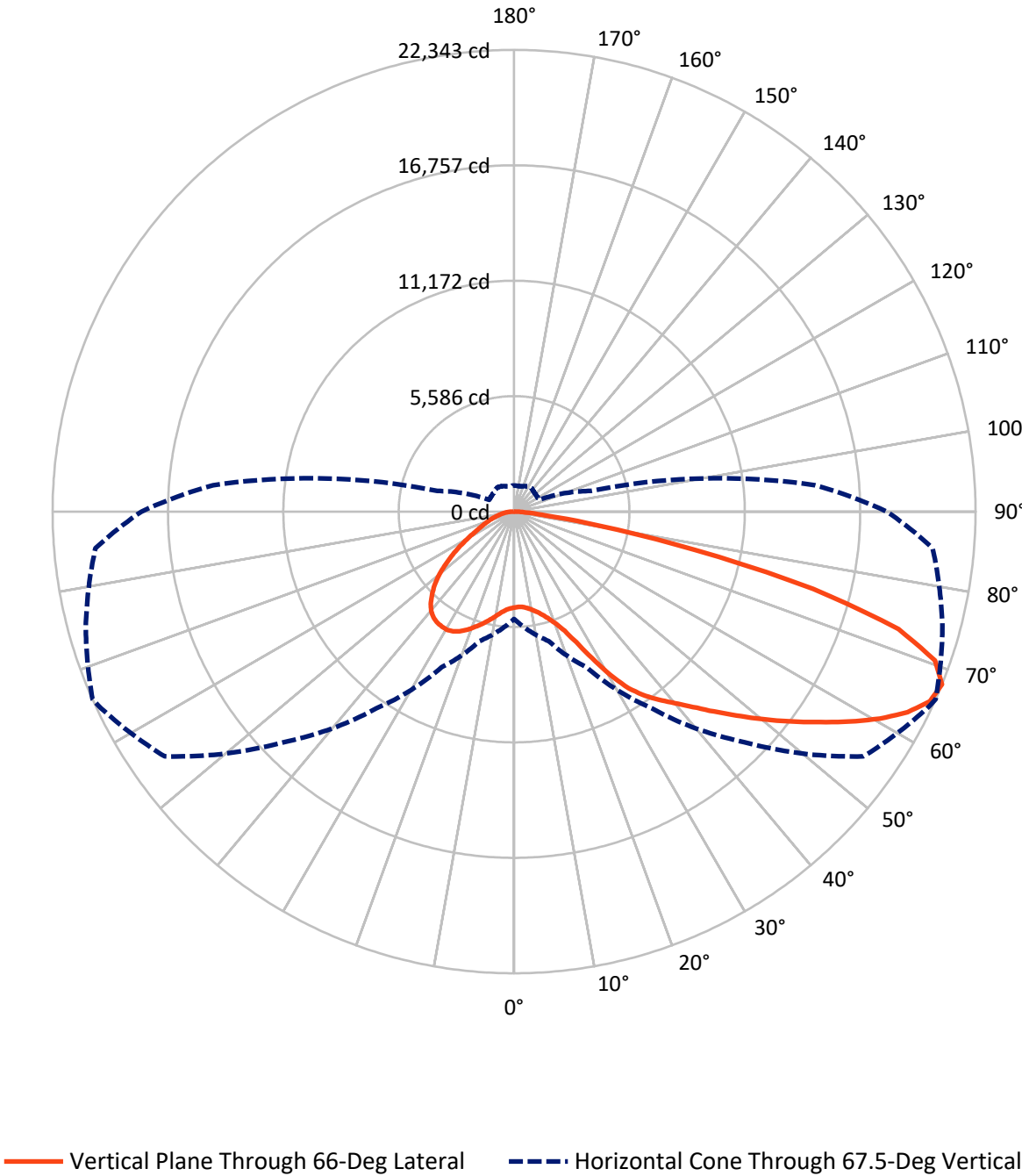
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10407.4	0.0	10407.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	31448.5	0.0	31448.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	41855.9	0.0	41855.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.3	1.1
10°-20°	1520.7	3.6
20°-30°	2931.0	7.0
30°-40°	5139.2	12.3
40°-50°	7640.3	18.3
50°-60°	9684.8	23.1
60°-70°	9476.3	22.6
70°-80°	4520.3	10.8
80°-90°	483.1	1.2
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°	41855.9	100.0
0°-180°	41855.9	100.0

Coefficient of Utilization



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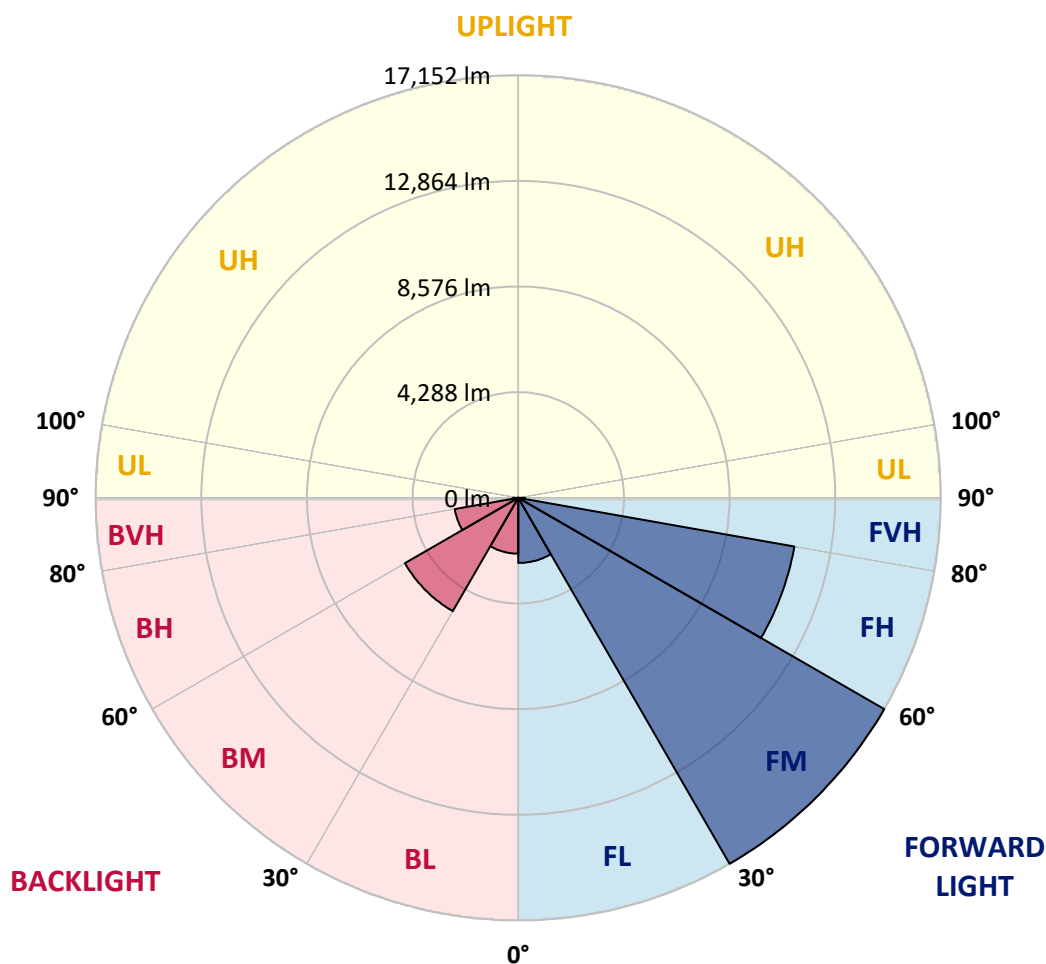
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2644.9	6.3			
FM	(30°-60°)	17152.2	41.0			
FH	(60°-80°)	11377.6	27.2			G4/12000
FVH	(80°-90°)	273.9	0.7			G3/500
BL	(0°-30°)	2267.1	5.4	B3/2500		
BM	(30°-60°)	5312.0	12.7	B4/8500		
BH	(60°-80°)	2619.0	6.3	B4/5000		G4/5000
BVH	(80°-90°)	209.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4642.3	4642.3	4642.3	4642.3	4642.3	4642.3	4642.3	4642.3	4642.3	4642.3	4642.3
2.5°	4593.9	4620.4	4613.7	4602.8	4600.6	4605.0	4611.6	4618.1	4616.0	4627.0	4644.6
5°	4580.8	4607.2	4605.0	4605.0	4613.7	4631.4	4642.3	4653.4	4642.3	4655.5	4679.7
7.5°	4589.5	4609.4	4618.1	4627.0	4649.0	4682.0	4708.3	4732.5	4719.3	4734.8	4765.5
10°	4701.8	4717.2	4726.0	4726.0	4741.3	4778.8	4805.1	4849.1	4838.1	4862.3	4901.9
12.5°	4906.3	4921.6	4921.6	4912.8	4923.9	4948.1	4956.8	5005.2	4985.4	5025.1	5064.6
15°	5157.0	5187.7	5163.5	5148.2	5152.6	5176.8	5174.6	5211.9	5192.1	5225.1	5260.3
17.5°	5434.0	5473.6	5434.0	5431.9	5423.1	5449.4	5451.7	5484.7	5449.4	5473.6	5497.8
20°	5761.7	5816.7	5783.8	5794.7	5775.0	5785.9	5796.9	5845.3	5790.3	5808.0	5801.3
22.5°	6223.6	6289.5	6254.3	6296.2	6282.9	6274.1	6272.0	6357.7	6272.0	6278.5	6214.8
25°	6896.5	6975.6	6914.0	6971.2	6971.2	6999.8	7032.8	7142.8	6999.8	6958.0	6793.1
27.5°	7890.4	7969.7	7848.7	7883.9	7872.9	7943.2	7908.1	8180.7	8026.9	7958.6	7626.6
30°	9086.8	9227.6	8998.9	8990.1	8979.1	9091.2	9141.8	9322.2	9166.0	9097.8	8697.5
32.5°	10379.9	10527.3	10254.5	10175.4	10133.6	10201.8	10160.0	10305.1	10197.4	10091.8	9597.0
35°	11747.7	11892.9	11633.4	11479.5	11312.3	11169.4	11019.9	11057.3	10956.1	10795.5	10283.1
37.5°	13040.9	13307.0	13032.1	12867.1	12559.2	12279.9	11862.1	11688.4	11593.9	11446.5	10929.7
40°	14358.1	14509.9	14301.0	14160.2	13825.9	13388.3	12719.7	12352.5	12225.0	12082.1	11644.4
42.5°	15328.0	15473.1	15361.0	15264.2	15002.5	14494.5	13630.2	13170.6	12985.9	12825.3	12453.6
45°	16097.6	16205.5	16135.0	16170.2	16058.1	15565.4	14573.7	14048.0	13856.8	13661.0	13368.6
47.5°	16407.7	16522.1	16634.2	16843.2	17034.5	16671.6	15587.5	14998.1	14795.8	14595.7	14307.6
50°	16372.5	16489.1	16814.6	17258.7	17852.5	17731.6	16656.2	16009.7	15822.7	15594.0	15328.0
52.5°	16091.1	16223.0	16640.9	17379.8	18325.4	18525.5	17744.8	17054.3	16878.4	16605.6	16339.5
55°	15352.1	15431.3	16058.1	17104.9	18437.5	19079.7	18811.4	18167.0	17991.1	17610.6	17320.3
57.5°	13982.1	14096.4	15009.1	16363.7	18156.0	19455.7	19748.3	19336.9	19167.6	18620.0	18316.5
60°	12194.2	12376.7	13421.4	15119.1	17439.1	19453.6	20599.3	20487.1	20346.4	19614.1	19297.4
62.5°	10171.0	10382.1	11387.1	13359.7	16185.6	18901.5	21131.5	21450.4	21377.8	20531.1	20126.5
65°	7811.3	7956.5	8957.1	11083.6	14235.0	17716.2	21193.0	22107.9	22121.0	21228.3	20559.7
67.5°	5201.0	5618.7	6487.4	8317.2	11622.4	15778.7	20652.0	22215.6	22343.2	21467.9	20341.9
70°	2537.8	3087.6	3938.7	5405.4	8317.2	12807.8	19238.0	21331.6	21615.3	20768.7	19044.5
72.5°	1053.4	1231.5	1695.6	2667.6	4774.3	8642.6	16396.7	18934.5	19460.1	18402.3	16011.9
75°	710.3	769.7	969.9	1367.9	2174.9	4262.0	11824.7	14118.5	14965.1	13898.5	11360.7
77.5°	547.6	585.0	705.9	956.6	1293.1	1611.9	6329.1	8508.4	8946.1	8281.9	5911.3
80°	431.0	459.6	527.8	697.1	917.1	862.0	2157.3	3855.1	4108.0	3446.0	1900.0
82.5°	373.8	384.9	378.2	472.8	609.2	503.6	708.1	1422.8	1570.2	1139.2	620.1
85°	270.5	301.2	314.5	292.5	323.3	255.1	290.3	503.6	554.2	494.8	349.6
87.5°	110.0	162.8	200.1	189.1	118.8	72.6	90.2	147.3	169.3	184.7	114.4
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°	4642.3	4642.3	4642.3	4642.3	4642.3	4642.3	4642.3	4642.3	4642.3	4642.3	4642.3
2.5°	4646.7	4662.2	4673.2	4686.4	4695.1	4708.3	4734.8	4750.2	4752.3	4763.3	4761.1
5°	4688.6	4710.6	4734.8	4769.9	4809.5	4842.5	4893.0	4928.3	4941.4	4952.5	4950.2
7.5°	4778.8	4809.5	4853.5	4915.1	4972.3	5016.2	5077.7	5119.6	5161.4	5176.8	5178.9
10°	4912.8	4956.8	5020.7	5104.2	5165.8	5223.0	5286.7	5321.9	5363.7	5381.2	5390.1
12.5°	5080.0	5126.2	5209.8	5326.3	5383.5	5423.1	5445.0	5436.3	5445.0	5460.5	5464.9
15°	5271.4	5321.9	5416.5	5541.8	5581.4	5546.2	5497.8	5453.8	5447.3	5451.7	5467.0
17.5°	5497.8	5535.2	5645.2	5750.8	5722.2	5577.0	5471.4	5401.0	5365.9	5354.9	5370.3
20°	5814.5	5814.5	5904.7	5970.6	5779.4	5533.1	5368.1	5253.7	5181.2	5150.4	5143.8
22.5°	6199.4	6164.1	6221.3	6175.2	5768.3	5409.8	5181.2	4983.2	4873.3	4829.3	4822.7
25°	6687.6	6645.8	6630.4	6344.5	5689.2	5214.2	4842.5	4602.8	4506.0	4481.8	4486.2
27.5°	7424.3	7318.7	7118.6	6436.9	5544.0	4906.3	4446.7	4224.5	4169.6	4171.8	4178.3
30°	8405.1	8194.0	7703.6	6452.3	5306.5	4470.8	4042.0	3883.6	3857.3	3868.2	3905.7
32.5°	9313.4	9113.2	8301.7	6381.9	4941.4	4044.2	3679.1	3573.6	3534.0	3547.2	3564.7
35°	10025.8	9970.9	8855.9	6282.9	4492.8	3644.0	3353.7	3263.5	3186.5	3169.0	3182.1
37.5°	10698.7	10676.8	9271.5	6144.4	4048.6	3360.3	3092.0	2973.2	2861.1	2799.5	2801.7
40°	11437.7	11415.7	9544.3	5931.1	3654.9	3114.0	2856.7	2700.6	2562.0	2449.9	2460.8
42.5°	12268.9	12139.2	9673.9	5625.4	3320.7	2905.1	2665.3	2454.3	2271.7	2168.4	2174.9
45°	13177.2	12884.8	9671.8	5236.1	3039.2	2713.7	2460.8	2161.7	1992.4	1895.6	1891.2
47.5°	14140.4	13597.2	9553.0	4805.1	2766.5	2502.6	2144.2	1915.4	1803.3	1743.9	1730.7
50°	15134.4	14263.6	9350.7	4310.3	2487.3	2262.9	1946.3	1790.1	1704.4	1649.3	1629.5
52.5°	16069.0	14868.3	9106.6	3749.6	2203.5	2029.8	1858.2	1737.3	1647.2	1585.6	1559.2
55°	16937.7	15389.6	8761.4	3175.6	1972.6	1873.7	1816.5	1715.3	1611.9	1539.3	1510.8
57.5°	17709.6	15728.2	8165.4	2636.7	1807.7	1765.9	1772.5	1677.9	1559.2	1497.6	1458.1
60°	18351.8	15976.7	7283.5	2137.5	1673.5	1660.3	1704.4	1607.6	1469.0	1398.6	1367.9
62.5°	18736.6	15972.3	6201.6	1750.5	1559.2	1563.5	1614.2	1519.6	1378.8	1312.9	1293.1
65°	18703.6	15580.8	5014.0	1497.6	1449.2	1453.7	1519.6	1422.8	1304.1	1264.5	1262.3
67.5°	18041.6	14626.4	3846.3	1332.7	1328.3	1348.1	1425.1	1356.9	1257.9	1253.5	1260.1
70°	16249.4	12645.0	2770.9	1200.7	1202.9	1231.5	1332.7	1315.1	1233.7	1242.5	1240.4
72.5°	13029.9	9641.0	1860.5	1062.2	1064.4	1110.6	1244.8	1282.1	1209.5	1326.0	1343.7
75°	8677.8	6012.4	1196.3	914.8	917.1	976.4	1167.8	1218.3	1143.6	1321.6	1332.7
77.5°	4169.6	2702.7	866.4	769.7	769.7	824.7	1009.4	1090.8	974.3	1026.9	941.3
80°	1440.4	1016.0	681.7	620.1	607.0	644.3	851.1	945.7	840.1	774.1	725.7
82.5°	567.3	527.8	547.6	481.6	437.7	461.9	661.9	780.7	618.0	558.6	556.4
85°	325.4	343.1	387.0	318.9	252.9	283.7	486.1	560.8	466.2	411.2	420.0
87.5°	87.9	121.0	178.1	164.9	114.4	121.0	230.9	310.1	268.3	206.7	213.3
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)