

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: P970399

Luminaire Tested: **NAV-SB6B-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-740-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37526.3 lumens
Efficiency: N/A
Efficacy: 170.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 220.4
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



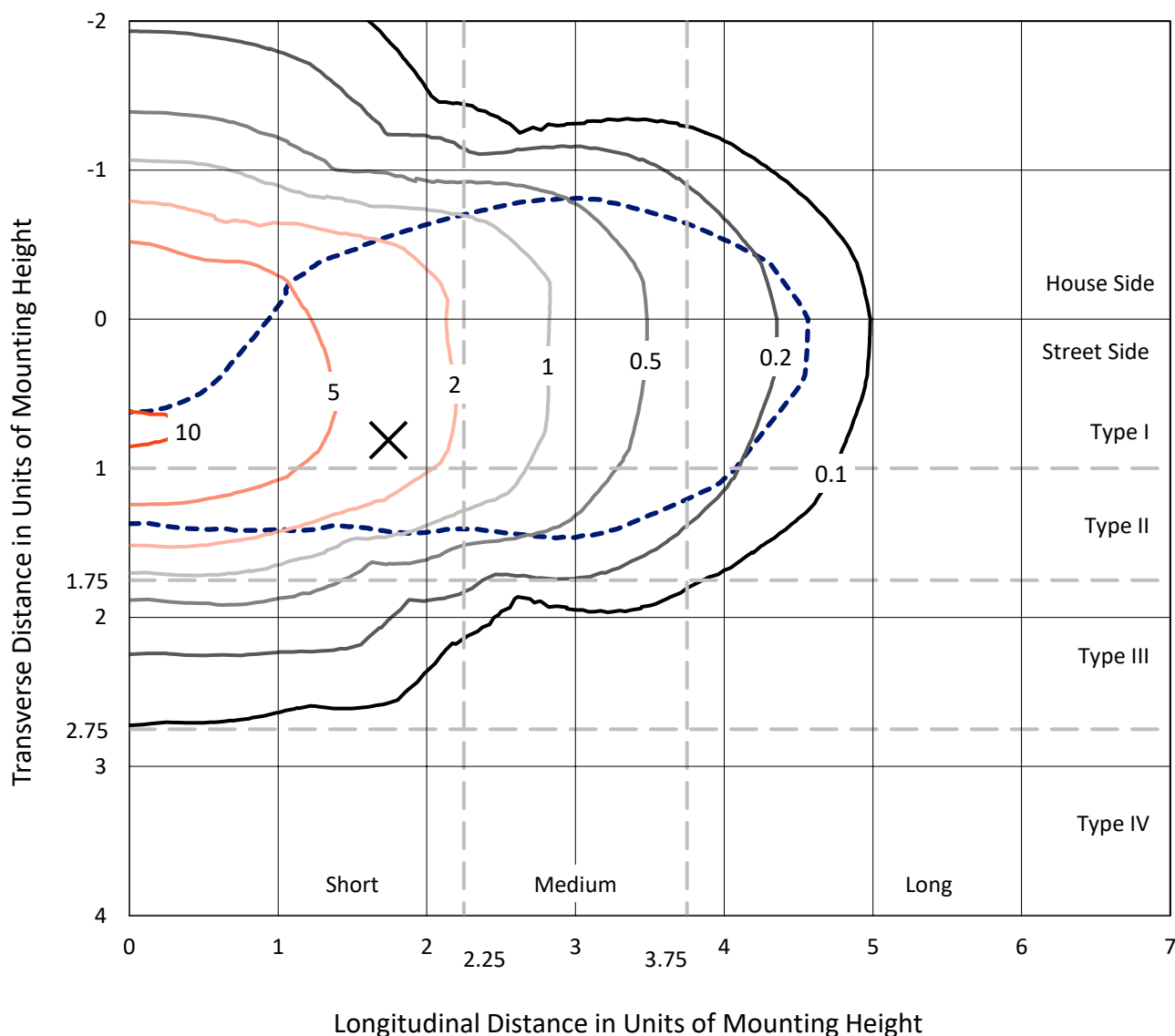
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

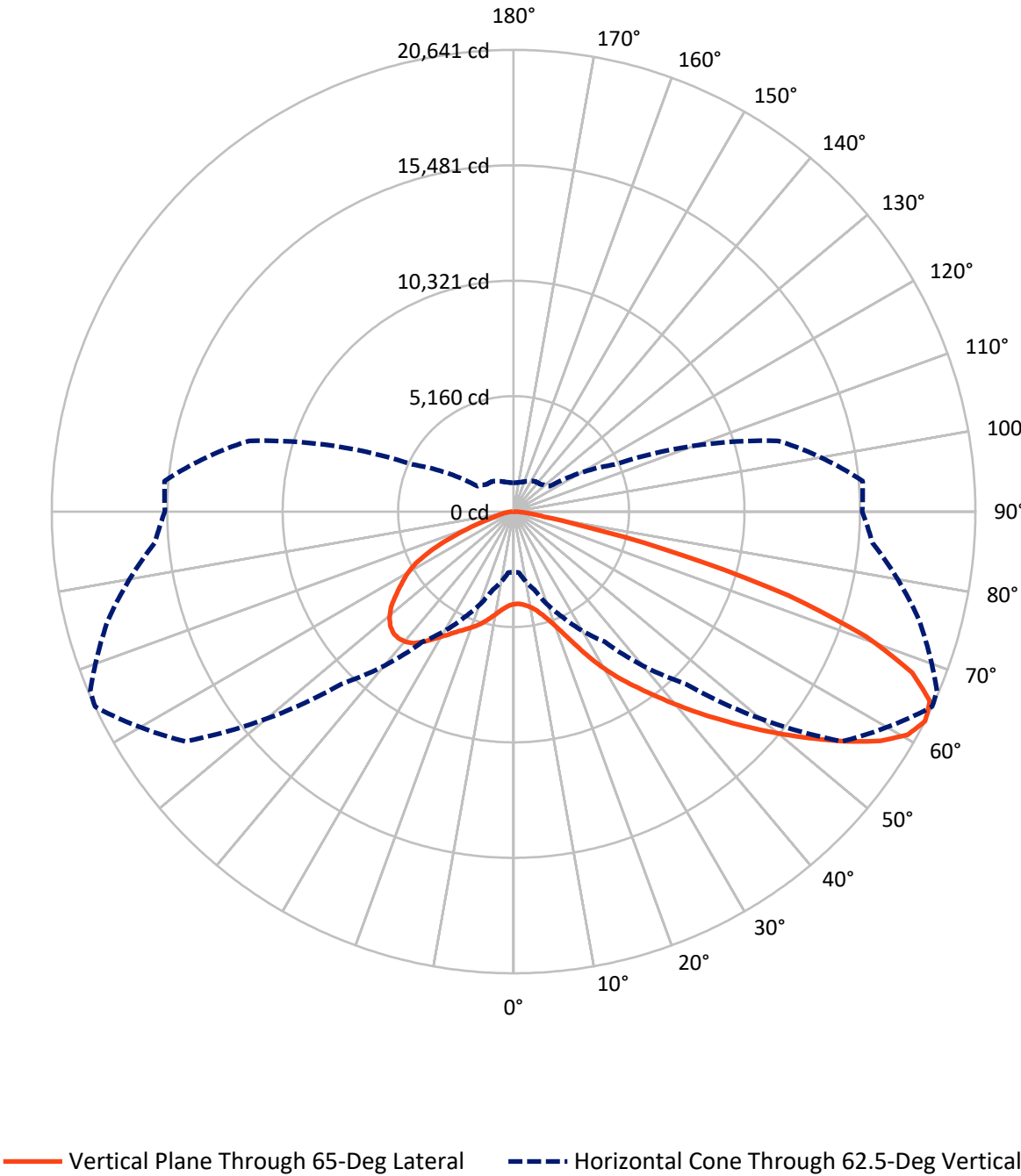


Based on 25 foot mounting height. Maximum calculated value = 10.5 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11841.6	0.0	11841.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	25684.6	0.0	25684.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	37526.3	0.0	37526.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.3	1.1
10°-20°	1398.1	3.7
20°-30°	2834.7	7.6
30°-40°	4905.5	13.1
40°-50°	7423.5	19.8
50°-60°	8703.6	23.2
60°-70°	7296.9	19.4
70°-80°	4028.5	10.7
80°-90°	523.3	1.4
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°	37526.3	100.0
0°-180°	37526.3	100.0

Coefficient of Utilization



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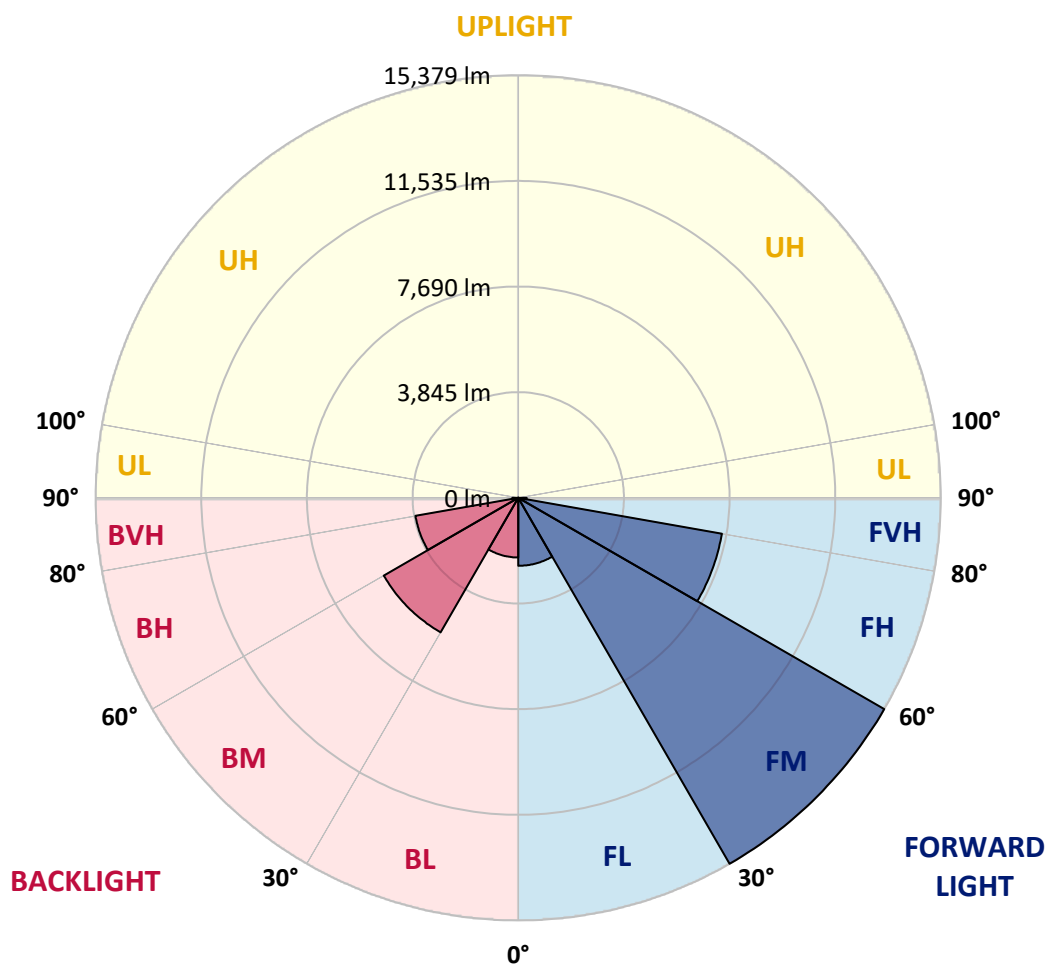
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2473.5	6.6			
FM	(30°-60°)	15379.5	41.0			
FH	(60°-80°)	7526.7	20.1			G4/12000
FVH	(80°-90°)	305.0	0.8			G3/500
BL	(0°-30°)	2171.6	5.8	B3/2500		
BM	(30°-60°)	5653.0	15.1	B4/8500		
BH	(60°-80°)	3798.7	10.1	B4/5000		G4/5000
BVH	(80°-90°)	218.3	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4135.3	4135.3	4135.3	4135.3	4135.3	4135.3	4135.3	4135.3	4135.3	4135.3	4135.3
2.5°	4108.0	4096.3	4106.0	4106.0	4109.9	4108.0	4121.6	4125.5	4131.4	4143.0	4143.0
5°	4067.1	4065.2	4082.7	4098.3	4113.8	4127.5	4145.0	4170.3	4174.2	4187.8	4205.4
7.5°	4053.5	4041.8	4069.0	4088.5	4125.5	4158.6	4205.4	4248.1	4265.6	4271.5	4304.6
10°	4158.6	4139.2	4164.5	4176.2	4207.3	4240.3	4294.9	4363.0	4382.5	4405.9	4442.9
12.5°	4337.7	4316.3	4353.3	4370.8	4400.0	4429.2	4466.2	4532.4	4542.2	4584.9	4620.0
15°	4583.0	4557.7	4581.0	4602.5	4651.1	4678.4	4715.4	4779.7	4779.7	4812.8	4838.1
17.5°	4915.9	4882.9	4900.3	4908.1	4939.3	4980.2	5042.5	5099.0	5128.2	5116.5	5081.4
20°	5412.4	5371.5	5371.5	5332.6	5320.9	5354.0	5435.8	5513.7	5544.8	5484.5	5398.8
22.5°	6158.1	6099.7	6066.6	5934.1	5881.7	5885.5	5967.2	6062.7	6088.0	5980.9	5788.2
25°	7106.2	7014.7	6969.9	6775.2	6656.5	6553.3	6617.5	6740.2	6775.2	6642.8	6331.3
27.5°	8054.3	8060.2	8017.3	7783.7	7587.0	7398.2	7365.1	7493.7	7530.7	7380.7	6995.2
30°	9384.1	9245.9	9164.1	8883.8	8603.3	8338.6	8202.4	8254.9	8264.6	8085.5	7637.7
32.5°	10530.8	10495.8	10320.5	10075.2	9715.1	9300.3	9072.6	8988.8	8973.3	8718.2	8186.8
35°	11837.2	11817.7	11632.7	11340.7	10951.4	10375.0	9964.2	9724.8	9705.3	9347.1	8729.9
37.5°	13165.0	13165.0	12983.9	12664.6	12261.7	11541.3	10916.4	10536.7	10474.4	10007.1	9282.8
40°	14224.1	14159.9	14193.0	14058.6	13597.2	12832.1	11973.4	11422.5	11338.8	10778.1	9870.9
42.5°	14825.7	14804.3	15002.8	15152.8	14964.0	14352.6	13137.7	12382.3	12265.6	11627.0	10548.4
45°	14960.1	14936.7	15291.1	15840.0	16104.8	15853.7	14403.2	13392.8	13250.7	12514.7	11274.6
47.5°	14650.5	14603.8	15123.6	15990.0	16838.8	17280.8	15773.8	14488.9	14282.6	13379.1	12020.2
50°	13719.8	13675.0	14461.6	15612.3	17086.0	18250.3	17261.3	15651.2	15335.8	14305.9	12773.7
52.5°	11697.0	11718.4	12950.9	14531.7	16760.9	18853.8	18542.4	16875.8	16496.1	15254.0	13480.4
55°	9111.5	9158.3	10672.9	12413.5	15460.4	18762.3	19416.5	18137.4	17759.7	16145.7	14210.5
57.5°	6524.1	6730.5	8149.8	9872.8	12962.6	17311.9	19607.3	19336.7	18970.7	17119.1	14925.0
60°	4228.6	4265.6	5725.9	7462.5	9870.9	14734.2	19219.9	20245.9	19959.7	18112.1	15522.7
62.5°	2710.1	2735.4	3625.1	5219.7	7104.3	10900.8	17915.5	20641.1	20553.5	18768.2	16097.0
65°	1991.7	1972.2	2435.6	3449.9	4785.5	6722.7	15382.5	20450.3	20623.6	19179.0	16572.1
67.5°	1662.7	1635.4	1863.1	2388.9	3525.9	3817.9	11381.6	19210.1	19844.8	19132.2	16920.6
70°	1514.7	1491.4	1629.5	1773.7	2751.0	2556.2	5737.5	16700.5	17678.0	18600.8	16864.1
72.5°	1283.0	1242.1	1431.0	1575.0	2139.7	1960.5	2371.3	12828.2	14019.6	16897.2	16069.7
75°	994.9	967.6	1129.2	1386.2	1608.1	1530.2	1499.2	7789.6	9090.1	13067.6	14058.6
77.5°	788.5	751.5	899.4	1080.6	1446.6	1154.6	1092.2	3354.5	4643.4	8342.5	10519.2
80°	593.8	560.7	683.4	854.6	1111.7	870.2	706.7	1368.7	1750.3	4226.7	5289.7
82.5°	422.5	393.3	477.0	626.9	747.6	780.7	434.2	767.1	862.4	1629.5	1181.7
85°	270.6	253.1	319.3	393.3	475.1	502.4	264.8	401.1	440.0	671.7	492.6
87.5°	148.0	120.7	171.3	183.0	220.0	200.5	126.6	146.1	157.7	243.3	208.3
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°	4135.3	4135.3	4135.3	4135.3	4135.3	4135.3	4135.3	4135.3	4135.3	4135.3	4135.3
2.5°	4150.8	4156.7	4176.2	4182.0	4195.6	4213.2	4224.7	4236.4	4236.4	4248.1	4248.1
5°	4207.3	4220.8	4261.7	4283.2	4318.2	4353.3	4374.7	4400.0	4415.6	4423.4	4427.3
7.5°	4316.3	4337.7	4396.1	4433.1	4493.5	4542.2	4575.2	4610.2	4618.0	4639.5	4631.7
10°	4464.3	4489.6	4555.7	4625.8	4697.9	4758.3	4789.4	4814.7	4824.5	4828.4	4818.6
12.5°	4633.6	4670.6	4756.3	4842.0	4917.8	4970.4	4978.2	4972.4	4945.1	4921.7	4921.7
15°	4842.0	4875.1	4970.4	5063.9	5137.9	5147.7	5099.0	5067.8	5034.7	5028.9	5028.9
17.5°	5091.2	5108.7	5196.3	5287.8	5293.6	5260.5	5188.5	5159.3	5128.2	5106.8	5108.7
20°	5381.2	5375.4	5437.7	5476.7	5435.8	5334.5	5225.6	5176.9	5145.7	5120.4	5122.3
22.5°	5727.8	5683.0	5675.2	5665.5	5556.5	5344.2	5196.3	5134.0	5085.3	5050.3	5062.0
25°	6232.1	6060.7	5941.9	5875.8	5630.4	5291.7	5102.9	4964.6	4873.2	4812.8	4836.2
27.5°	6862.9	6574.7	6274.8	6113.3	5630.4	5184.7	4877.1	4653.1	4503.2	4440.9	4472.1
30°	7464.5	7162.7	6720.7	6399.5	5616.8	5009.4	4513.0	4201.5	4026.2	3963.9	4000.9
32.5°	7978.4	7649.4	7193.9	6712.9	5583.7	4725.1	4061.3	3716.6	3547.2	3473.3	3510.3
35°	8455.4	8105.0	7668.8	7057.5	5496.2	4308.5	3564.7	3301.9	3113.1	2994.3	3033.3
37.5°	8944.0	8527.5	8118.6	7369.0	5338.4	3821.8	3183.2	2959.3	2737.4	2577.7	2620.5
40°	9475.6	8977.2	8599.4	7554.0	5079.5	3358.4	2887.2	2682.8	2447.3	2277.9	2311.0
42.5°	10096.7	9516.5	9134.9	7649.4	4725.1	3029.4	2694.5	2494.0	2272.0	2133.8	2161.1
45°	10745.0	10110.3	9623.5	7647.4	4329.9	2875.5	2632.2	2433.7	2188.4	2044.3	2067.6
47.5°	11424.4	10731.3	10046.0	7522.9	3987.2	2897.0	2597.1	2303.2	2032.6	1892.4	1911.8
50°	12105.9	11410.8	10454.9	7289.2	3841.3	2850.3	2466.8	2120.2	1800.9	1674.3	1682.1
52.5°	12781.4	12133.1	10807.3	6956.3	3693.3	2677.0	2299.3	1882.6	1705.5	1617.9	1617.9
55°	13460.9	12847.7	11190.8	6471.5	3323.4	2474.6	2018.9	1793.1	1629.5	1549.7	1541.9
57.5°	14142.3	13673.1	11554.9	5986.7	2858.1	2225.3	1865.1	1684.1	1553.6	1485.5	1473.8
60°	14851.0	14617.4	11930.7	5540.9	2398.6	1906.0	1752.2	1596.4	1464.1	1388.2	1382.3
62.5°	15581.1	15657.1	12224.7	4966.5	1976.1	1711.3	1651.0	1491.4	1362.8	1290.8	1288.8
65°	16317.1	16659.7	12417.4	4170.3	1602.3	1526.3	1541.9	1376.5	1246.0	1183.7	1181.7
67.5°	16871.9	17381.9	12362.8	3156.0	1314.2	1351.2	1405.7	1255.7	1133.1	1084.4	1086.4
70°	16934.2	17296.4	11825.5	2161.1	1100.0	1179.9	1253.8	1137.0	1010.4	975.4	977.3
72.5°	16104.8	16128.2	10328.3	1411.5	930.6	1035.8	1094.2	1016.3	893.6	858.5	856.6
75°	13930.2	13338.2	7583.3	930.6	778.8	889.7	944.2	889.7	771.0	778.8	751.5
77.5°	10554.2	9446.4	4604.4	661.9	650.3	747.6	821.6	782.7	681.4	765.2	673.6
80°	5437.7	5110.6	2054.0	494.6	513.9	597.7	675.6	624.9	539.3	513.9	469.2
82.5°	1246.0	1448.5	810.0	354.3	371.9	430.3	515.9	469.2	387.4	327.1	323.2
85°	436.1	477.0	358.2	221.9	218.0	268.7	350.4	313.4	262.8	210.2	221.9
87.5°	138.3	181.0	134.4	89.6	93.5	120.7	161.6	148.0	122.7	79.8	83.7
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)