

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: P971026

Luminaire Tested: **NAV-SB6C-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-827-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40007.8 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - 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

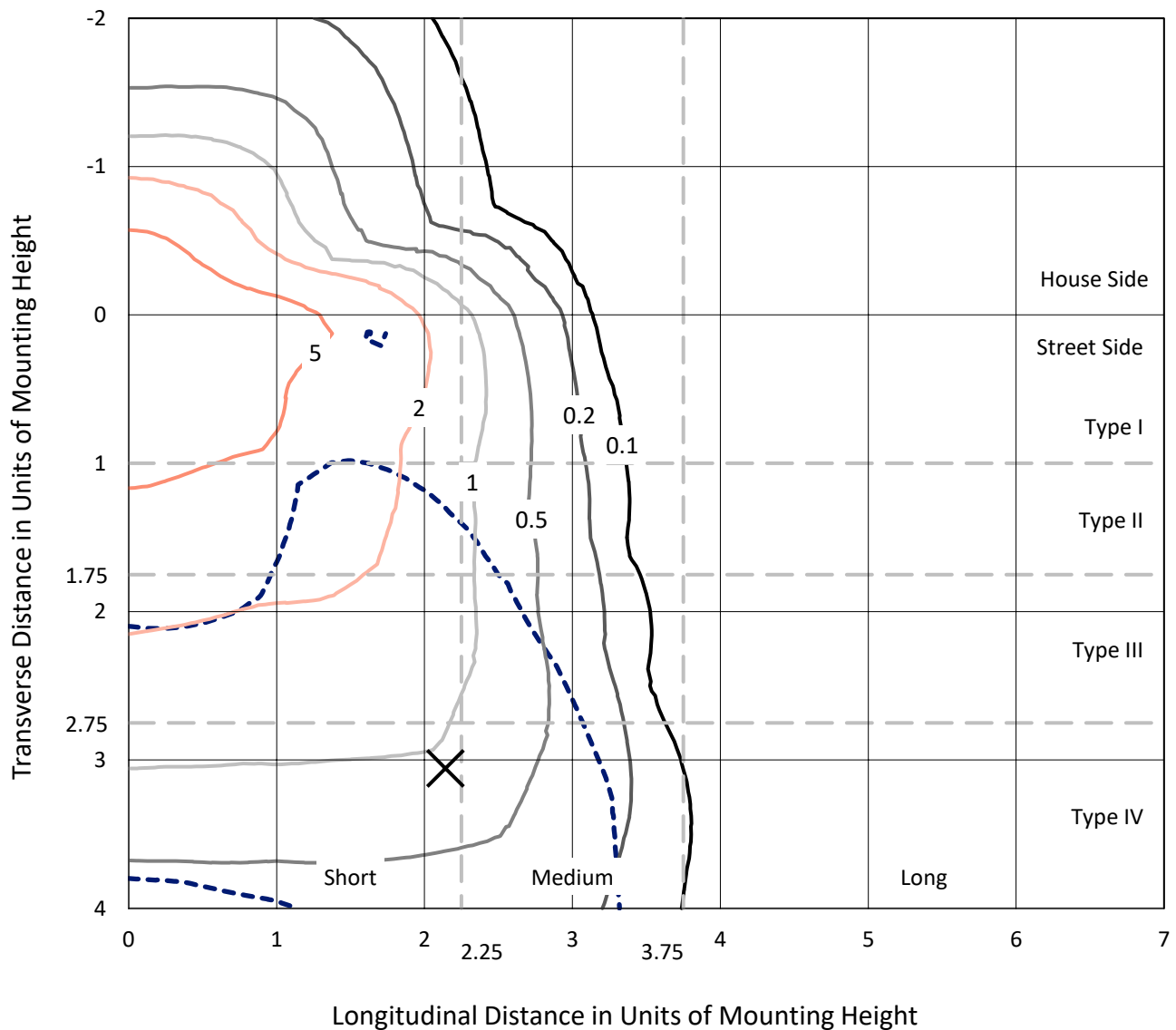


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Iso-Footcandle Lines of Horizontal Illumination

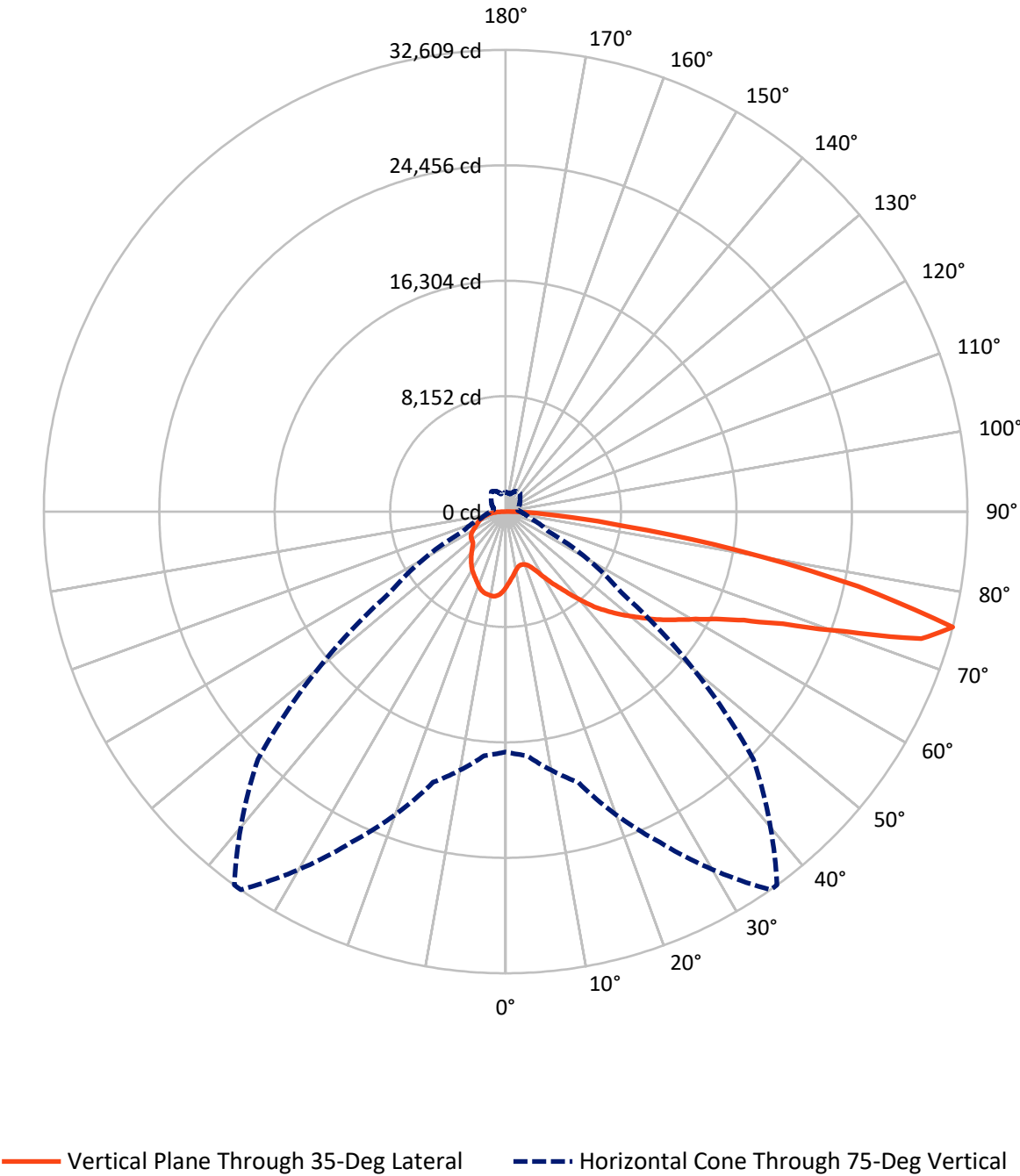
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	9520.9	0.0	9520.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	30486.9	0.0	30486.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	40007.8	0.0	40007.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.8	1.3
10°-20°	1456.0	3.6
20°-30°	2445.0	6.1
30°-40°	3799.8	9.5
40°-50°	5639.9	14.1
50°-60°	7786.2	19.5
60°-70°	9446.5	23.6
70°-80°	7806.8	19.5
80°-90°	1122.9	2.8
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°	40007.8	100.0
0°-180°	40007.8	100.0

Coefficient of Utilization



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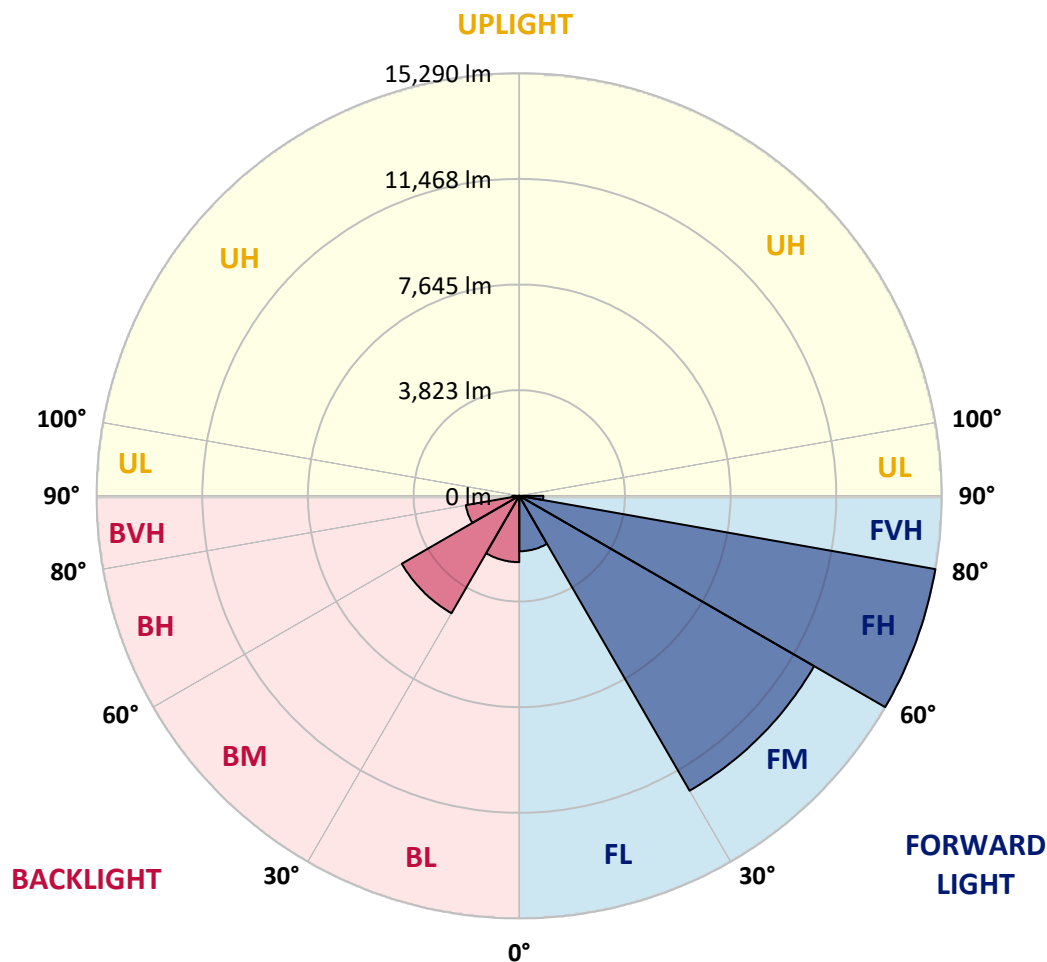
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2006.3	5.0			
FM	(30°-60°)	12320.2	30.8			
FH	(60°-80°)	15290.4	38.2			G5
FVH	(80°-90°)	870.0	2.2			G5
BL	(0°-30°)	2399.4	6.0	B3/2500		
BM	(30°-60°)	4905.7	12.3	B3/5000		
BH	(60°-80°)	1962.9	4.9	B3/2500		G3/2500
BVH	(80°-90°)	252.8	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	5331.3	5331.3	5331.3	5331.3	5331.3	5331.3	5331.3	5331.3	5331.3	5331.3	5331.3
2.5°	4916.0	4946.3	4959.3	4952.8	4985.3	4980.9	5026.4	5082.6	5160.5	5236.1	5346.4
5°	4537.6	4570.0	4598.2	4624.1	4686.8	4706.3	4777.6	4885.8	5028.5	5173.4	5355.1
7.5°	4185.1	4213.2	4256.4	4304.0	4410.0	4429.4	4548.3	4717.0	4916.0	5128.0	5378.9
10°	3897.4	3925.4	3971.0	4025.0	4156.9	4180.7	4332.1	4557.0	4816.6	5084.7	5404.8
12.5°	3774.0	3782.8	3808.7	3862.8	3977.4	3992.6	4159.0	4416.4	4719.2	5052.3	5443.8
15°	3767.6	3784.9	3787.1	3815.2	3910.4	3916.8	4070.4	4325.6	4658.7	5045.9	5502.2
17.5°	3832.5	3845.5	3826.0	3843.3	3923.3	3934.2	4055.2	4282.3	4639.3	5074.0	5601.6
20°	4005.5	4016.4	3957.9	3934.2	3992.6	4001.2	4120.1	4310.4	4658.7	5132.4	5738.0
22.5°	4373.2	4379.7	4236.9	4139.6	4144.0	4148.3	4252.1	4425.1	4734.4	5238.3	5911.0
25°	4946.3	4942.0	4714.9	4526.7	4418.6	4394.8	4464.0	4611.1	4862.0	5378.9	6133.7
27.5°	5616.8	5584.4	5357.3	5076.1	4840.4	4805.7	4790.6	4853.4	5043.6	5564.9	6406.2
30°	6373.8	6343.5	6099.1	5731.4	5404.8	5348.7	5205.9	5173.4	5314.0	5817.9	6784.7
32.5°	7204.3	7184.8	6892.8	6447.4	6010.4	5945.5	5705.5	5618.9	5729.2	6200.7	7312.5
35°	7900.7	7883.4	7641.2	7182.7	6648.5	6568.4	6324.0	6226.7	6282.9	6691.7	8002.4
37.5°	8530.0	8521.4	8313.8	7952.7	7401.1	7303.7	7029.1	6996.6	6985.9	7338.4	8839.4
40°	9114.1	9092.5	8876.2	8685.8	8277.1	8188.4	7946.1	7918.0	7835.8	8134.3	9786.7
42.5°	9760.8	9704.5	9390.8	9302.2	9191.9	9118.4	8973.5	8977.8	8796.1	9031.9	10790.2
45°	10288.4	10256.0	9933.8	9881.8	10000.8	9970.5	10095.9	10128.4	9775.8	9972.6	11832.7
47.5°	10855.2	10824.8	10552.3	10515.6	10837.8	10846.4	11289.9	11300.6	10731.9	10950.3	12877.3
50°	11553.7	11510.4	11240.0	11285.6	11646.7	11679.2	12490.1	12416.6	11612.1	11943.0	13913.4
52.5°	12014.3	12040.4	11981.9	12055.4	12548.6	12578.9	13671.0	13483.0	12483.7	12922.8	14929.8
55°	12353.9	12405.9	12587.5	12756.2	13500.2	13530.5	14784.9	14497.3	13206.1	13831.1	15885.8
57.5°	12790.8	12717.3	13056.9	13385.6	14404.2	14484.3	15868.5	15474.8	13846.3	14614.0	16541.1
60°	13418.1	13366.1	13629.9	14116.6	15416.5	15544.0	17014.8	16355.1	14315.6	15234.8	16668.8
62.5°	14689.8	14560.0	14601.1	15031.5	16692.5	16861.2	18308.1	17122.9	14549.2	15477.0	15985.3
65°	16590.9	16368.1	16160.5	16458.9	18489.8	18656.3	19768.0	17726.4	14462.6	15007.7	14170.7
67.5°	18985.0	18764.5	18509.2	18790.4	21137.0	21269.1	21569.6	18065.9	13781.4	13199.5	10963.3
70°	20959.7	20877.5	21182.4	22339.6	25365.4	25369.7	23879.5	17784.8	11914.9	9358.5	6343.5
72.5°	20698.0	20648.3	22255.2	25832.6	30694.5	30579.8	26066.1	15656.6	8026.2	4221.8	2376.9
75°	16980.1	17302.4	19791.8	25769.8	32608.6	32593.5	24727.3	9953.3	3319.9	1749.7	1228.5
77.5°	9105.4	9615.8	12849.2	19026.2	25456.2	25839.0	17384.6	3482.1	1425.3	1120.3	850.0
80°	2969.5	3415.1	5121.5	9687.2	16541.1	16469.7	7450.8	1366.9	975.4	793.8	588.2
82.5°	1261.0	1312.8	2288.2	4574.4	8489.0	8357.0	2372.6	785.0	685.6	542.8	363.4
85°	493.1	551.6	1010.0	2115.2	3676.8	3596.7	856.5	389.3	439.0	354.6	216.3
87.5°	162.3	196.8	361.2	724.6	1144.1	1103.0	209.8	134.1	190.3	162.3	77.9
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°	5331.3	5331.3	5331.3	5331.3	5331.3	5331.3	5331.3	5331.3	5331.3	5331.3	5331.3
2.5°	5376.7	5411.3	5452.4	5513.0	5564.9	5608.2	5653.6	5681.7	5692.5	5724.9	5722.8
5°	5415.7	5491.3	5593.0	5692.5	5789.8	5848.2	5900.1	5926.0	5949.9	5967.1	5971.5
7.5°	5480.6	5577.8	5738.0	5867.7	5949.9	5997.5	6032.0	6023.4	6032.0	6036.4	6042.9
10°	5536.7	5673.1	5863.4	5986.6	6049.3	6051.5	6042.9	6012.5	5997.5	5999.6	6003.9
12.5°	5603.8	5755.2	5960.7	6064.5	6081.8	6034.2	5997.5	5945.5	5926.0	5917.4	5913.1
15°	5694.7	5867.7	6066.7	6105.6	6062.4	6001.8	5939.1	5854.7	5811.4	5776.8	5787.7
17.5°	5805.0	5995.3	6148.9	6120.7	6027.7	5928.3	5826.6	5699.0	5610.3	5573.5	5575.7
20°	5958.5	6129.4	6211.6	6088.3	5947.7	5796.3	5623.3	5467.6	5385.3	5348.7	5344.2
22.5°	6144.6	6308.9	6272.2	6032.0	5833.1	5590.9	5374.6	5259.9	5218.9	5192.9	5197.3
25°	6367.3	6507.8	6315.4	5949.9	5644.9	5318.3	5151.8	5115.1	5095.6	5076.1	5076.1
27.5°	6657.1	6732.8	6347.8	5828.8	5350.8	5028.5	4968.0	4974.4	4968.0	4935.5	4942.0
30°	7039.9	7024.7	6378.1	5632.0	5013.4	4766.9	4771.2	4799.3	4803.6	4781.9	4792.8
32.5°	7543.9	7390.2	6393.2	5376.7	4691.1	4537.6	4541.9	4572.1	4593.8	4557.0	4574.4
35°	8153.8	7816.3	6369.5	5056.6	4442.3	4319.1	4286.7	4295.4	4301.8	4267.2	4291.0
37.5°	8865.3	8294.3	6263.5	4702.0	4236.9	4105.0	4035.8	3977.4	3942.8	3910.4	3932.0
40°	9646.1	8815.6	6068.8	4355.8	4007.6	3877.9	3774.0	3663.8	3547.0	3503.8	3523.2
42.5°	10463.6	9352.0	5833.1	4025.0	3743.8	3637.8	3527.5	3367.5	3192.3	3103.6	3114.5
45°	11311.5	9901.3	5601.6	3698.4	3473.4	3428.0	3300.4	3107.9	2917.7	2805.1	2796.5
47.5°	12141.9	10420.4	5262.1	3369.7	3220.4	3270.2	3170.6	2993.3	2781.3	2604.0	2584.5
50°	12935.7	10907.0	4706.3	3036.6	3014.9	3222.6	3127.4	2872.2	2629.9	2402.9	2383.4
52.5°	13723.0	11300.6	3994.7	2733.8	2904.6	3209.6	3071.2	2790.0	2493.7	2255.8	2229.9
55°	14391.3	11504.0	3309.1	2474.2	2744.6	3099.3	3004.2	2692.7	2301.2	2048.2	2026.5
57.5°	14772.0	11339.6	2738.1	2219.0	2524.0	2917.7	2889.5	2485.0	2071.9	1877.3	1851.4
60°	14607.6	10673.4	2271.0	1996.3	2314.2	2720.8	2690.5	2279.6	1896.8	1713.0	1686.9
62.5°	13701.4	9403.9	1901.1	1801.6	2123.9	2519.7	2491.6	2121.8	1762.7	1585.4	1557.2
65°	11876.0	7649.9	1613.5	1639.4	1931.4	2277.4	2318.5	1989.7	1656.7	1483.7	1455.6
67.5°	9057.8	5541.2	1388.6	1498.9	1743.2	2039.5	2158.4	1894.6	1568.0	1403.6	1377.7
70°	5162.6	3146.9	1198.2	1362.5	1576.7	1819.0	2035.2	1819.0	1472.8	1336.6	1319.3
72.5°	1957.3	1444.7	1036.0	1226.3	1416.7	1632.9	1898.9	1700.0	1362.5	1261.0	1243.6
75°	1044.7	880.3	871.7	1066.3	1232.8	1451.2	1728.0	1583.2	1280.4	1332.3	1375.6
77.5°	711.6	622.9	728.9	912.7	1031.7	1250.1	1546.4	1405.8	1109.6	1105.2	1018.6
80°	493.1	441.3	592.7	735.3	798.1	1051.1	1349.6	1206.8	904.0	843.5	806.7
82.5°	296.3	287.6	443.4	549.4	564.5	811.1	1118.2	1012.2	739.6	644.5	648.8
85°	162.3	170.9	283.3	322.3	328.7	566.6	876.0	782.9	568.8	478.0	482.3
87.5°	45.4	58.4	103.8	127.6	157.8	294.2	521.2	465.0	285.5	199.0	199.0
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)