

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: P970492

Luminaire Tested: **NAV-SB6B-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970492
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-827-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30843.3 lumens
Efficiency: N/A
Efficacy: 139.9 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

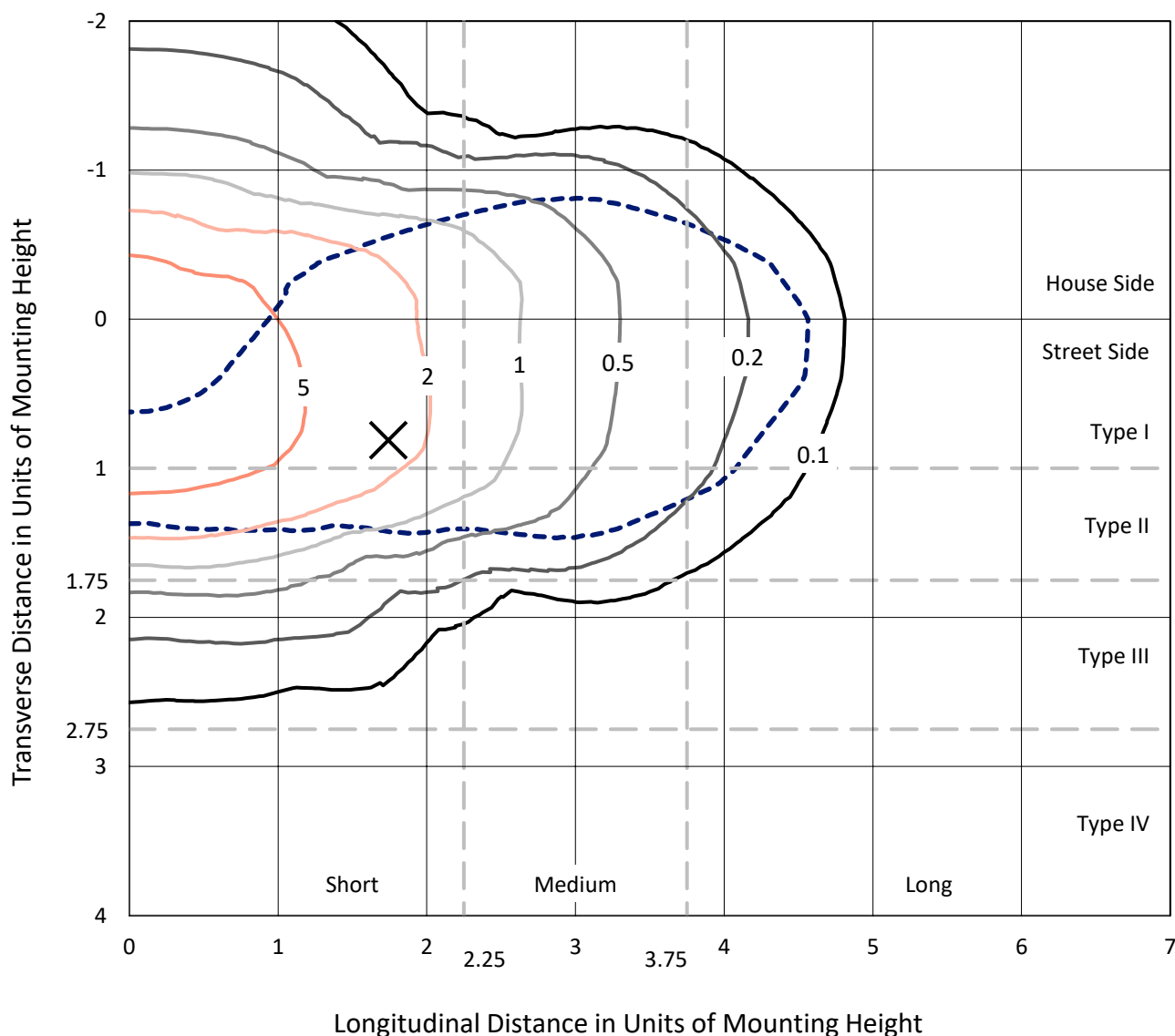


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

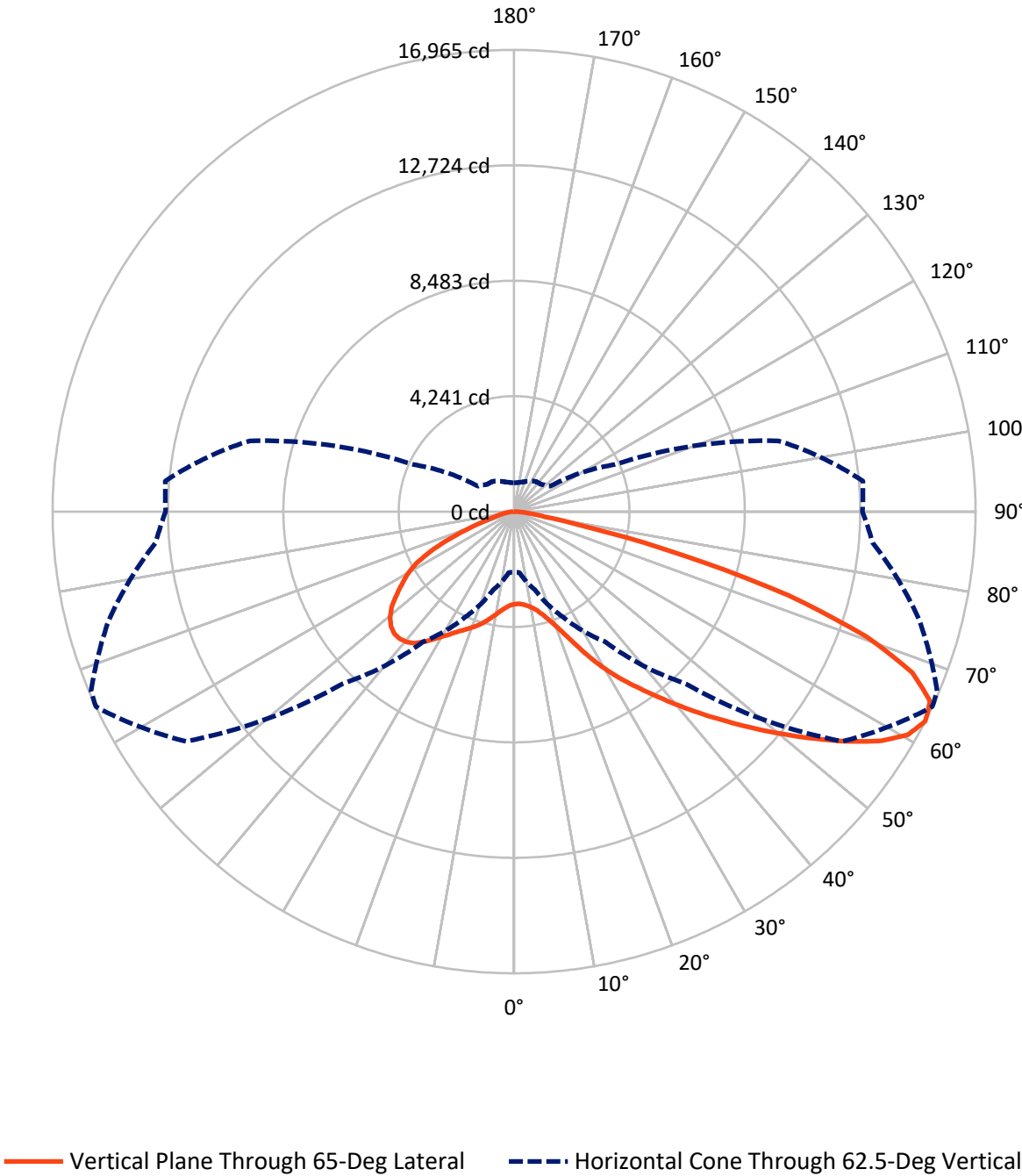


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc

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	9732.8	0.0	9732.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	21110.5	0.0	21110.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	30843.3	0.0	30843.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.9	1.1
10°-20°	1149.1	3.7
20°-30°	2329.9	7.6
30°-40°	4031.9	13.1
40°-50°	6101.4	19.8
50°-60°	7153.6	23.2
60°-70°	5997.4	19.4
70°-80°	3311.0	10.7
80°-90°	430.1	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°	30843.3	100.0
0°-180°	30843.3	100.0

Coefficient of Utilization



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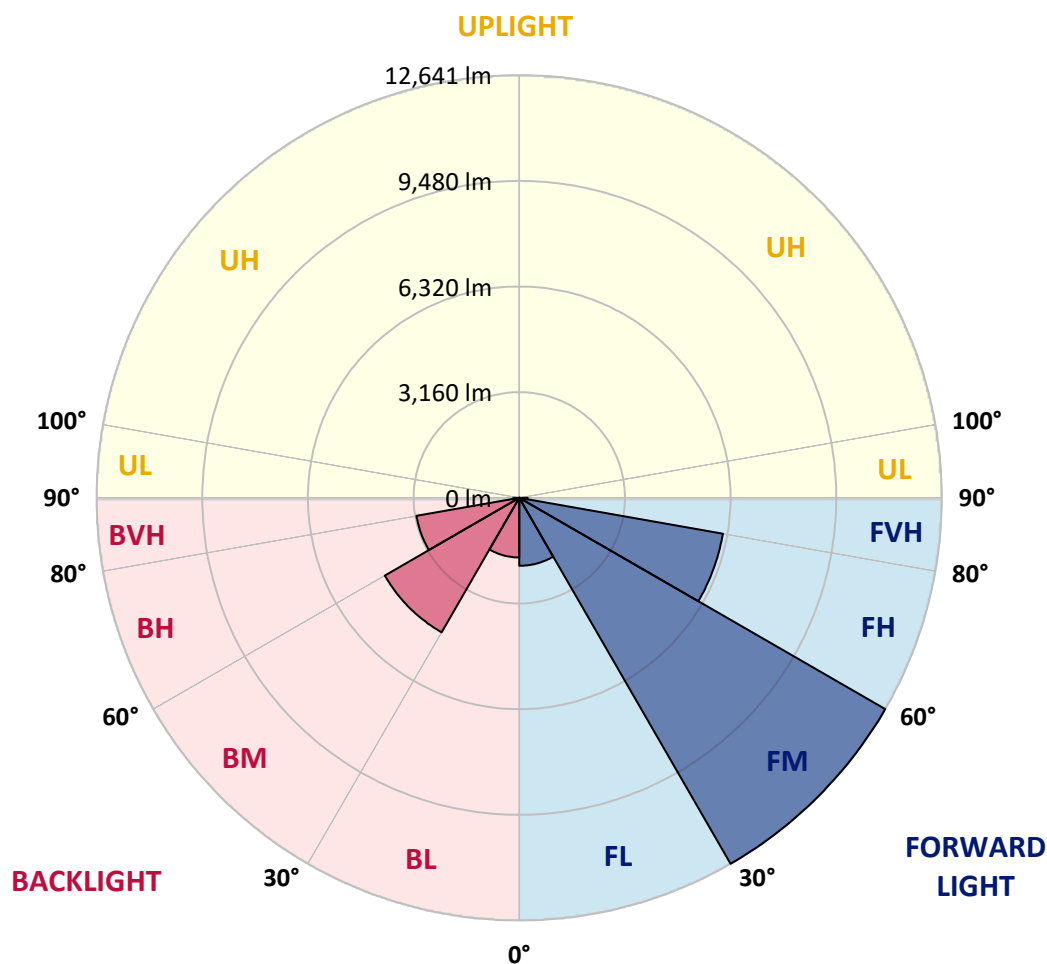
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2033.0	6.6			
FM	(30°-60°)	12640.6	41.0			
FH	(60°-80°)	6186.3	20.1			G3/7500
FVH	(80°-90°)	250.7	0.8			G3/500
BL	(0°-30°)	1784.9	5.8	B3/2500		
BM	(30°-60°)	4646.3	15.1	B3/5000		
BH	(60°-80°)	3122.2	10.1	B4/5000		G4/5000
BVH	(80°-90°)	179.4	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°	3398.8	3398.8	3398.8	3398.8	3398.8	3398.8	3398.8	3398.8	3398.8	3398.8	3398.8
2.5°	3376.4	3366.8	3374.8	3374.8	3378.0	3376.4	3387.6	3390.8	3395.6	3405.2	3405.2
5°	3342.8	3341.2	3355.5	3368.4	3381.2	3392.4	3406.8	3427.6	3430.8	3442.0	3456.4
7.5°	3331.6	3322.0	3344.4	3360.4	3390.8	3418.0	3456.4	3491.6	3506.0	3510.8	3538.0
10°	3418.0	3402.0	3422.8	3432.4	3458.0	3485.2	3530.0	3586.1	3602.1	3621.2	3651.7
12.5°	3565.3	3547.6	3578.0	3592.4	3616.4	3640.4	3670.8	3725.3	3733.3	3768.4	3797.2
15°	3766.9	3746.1	3765.2	3782.9	3822.8	3845.3	3875.6	3928.4	3928.4	3955.7	3976.5
17.5°	4040.4	4013.3	4027.6	4034.1	4059.7	4093.2	4144.5	4190.9	4214.9	4205.3	4176.5
20°	4448.5	4414.9	4414.9	4382.9	4373.3	4400.5	4467.8	4531.7	4557.4	4507.7	4437.3
22.5°	5061.3	5013.4	4986.2	4877.4	4834.2	4837.4	4904.5	4982.9	5003.7	4915.8	4757.3
25°	5840.7	5765.4	5728.6	5568.6	5471.0	5386.3	5439.1	5539.8	5568.6	5459.9	5203.8
27.5°	6620.0	6624.8	6589.5	6397.5	6235.9	6080.7	6053.5	6159.1	6189.6	6066.3	5749.4
30°	7712.9	7599.2	7532.1	7301.7	7071.3	6853.6	6741.6	6784.8	6792.8	6645.6	6277.5
32.5°	8655.4	8626.6	8482.6	8281.0	7985.0	7644.0	7456.9	7388.1	7375.3	7165.7	6728.8
35°	9729.1	9713.1	9561.1	9321.0	9001.0	8527.4	8189.7	7992.9	7977.0	7682.5	7175.2
37.5°	10820.4	10820.4	10671.7	10409.2	10078.0	9485.9	8972.2	8660.2	8609.0	8224.9	7629.7
40°	11690.9	11638.2	11665.3	11554.9	11175.7	10546.8	9841.1	9388.3	9319.5	8858.7	8113.0
42.5°	12185.4	12167.8	12331.1	12454.3	12299.1	11796.6	10798.1	10177.2	10081.2	9556.3	8669.8
45°	12295.8	12276.6	12567.8	13019.1	13236.7	13030.3	11838.1	11007.7	10890.8	10286.0	9266.7
47.5°	12041.4	12003.0	12430.3	13142.3	13840.0	14203.2	12964.7	11908.6	11738.9	10996.5	9879.6
50°	11276.5	11239.7	11886.2	12831.9	14043.2	15000.2	14187.2	12863.9	12604.6	11758.2	10498.9
52.5°	9613.9	9631.5	10644.4	11943.8	13776.0	15496.2	15240.2	13870.4	13558.4	12537.5	11079.7
55°	7488.9	7527.3	8772.3	10202.7	12707.0	15421.0	15958.6	14907.3	14596.9	13270.4	11679.8
57.5°	5362.2	5531.8	6698.4	8114.5	10654.1	14228.8	16115.5	15893.0	15592.2	14070.5	12267.0
60°	3475.6	3506.0	4706.2	6133.5	8113.0	12110.2	15797.0	16640.4	16405.1	14886.5	12758.3
62.5°	2227.4	2248.2	2979.6	4290.1	5839.1	8959.4	14724.9	16965.2	16893.1	15425.8	13230.3
65°	1637.0	1621.0	2001.8	2835.6	3933.2	5525.5	12643.1	16808.4	16950.7	15763.5	13620.8
67.5°	1366.5	1344.2	1531.4	1963.4	2898.0	3137.9	9354.7	15789.0	16310.7	15725.0	13907.2
70°	1245.0	1225.7	1339.4	1457.8	2261.0	2101.0	4715.7	13726.4	14529.7	15288.2	13860.8
72.5°	1054.5	1020.9	1176.2	1294.6	1758.6	1611.4	1949.0	10543.7	11522.9	13888.0	13207.9
75°	817.7	795.3	928.1	1139.3	1321.7	1257.8	1232.2	6402.4	7471.2	10740.5	11554.9
77.5°	648.1	617.7	739.3	888.1	1188.9	948.9	897.7	2757.1	3816.5	6856.8	8645.8
80°	488.1	460.8	561.7	702.4	913.7	715.2	580.9	1124.9	1438.6	3474.0	4347.7
82.5°	347.3	323.3	392.1	515.3	614.5	641.6	356.8	630.5	708.9	1339.4	971.3
85°	222.4	208.1	262.4	323.3	390.4	412.9	217.6	329.6	361.6	552.1	404.9
87.5°	121.6	99.2	140.8	150.4	180.8	164.8	104.0	120.0	129.7	200.0	171.2
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°	3398.8	3398.8	3398.8	3398.8	3398.8	3398.8	3398.8	3398.8	3398.8	3398.8	3398.8
2.5°	3411.6	3416.4	3432.4	3437.2	3448.4	3462.8	3472.4	3482.0	3482.0	3491.6	3491.6
5°	3458.0	3469.2	3502.8	3520.4	3549.2	3578.0	3595.6	3616.4	3629.2	3635.6	3638.9
7.5°	3547.6	3565.3	3613.2	3643.7	3693.3	3733.3	3760.4	3789.2	3795.7	3813.2	3806.8
10°	3669.2	3690.0	3744.4	3802.0	3861.3	3910.9	3936.4	3957.2	3965.2	3968.5	3960.5
12.5°	3808.5	3838.8	3909.2	3979.7	4042.1	4085.2	4091.7	4086.9	4064.4	4045.3	4045.3
15°	3979.7	4006.8	4085.2	4162.1	4222.9	4230.9	4190.9	4165.3	4138.1	4133.3	4133.3
17.5°	4184.5	4198.9	4270.9	4346.1	4350.9	4323.7	4264.5	4240.5	4214.9	4197.3	4198.9
20°	4422.9	4418.2	4469.3	4501.3	4467.8	4384.5	4294.9	4254.9	4229.3	4208.4	4210.1
22.5°	4707.7	4670.9	4664.6	4656.6	4566.9	4392.5	4270.9	4219.7	4179.6	4150.8	4160.5
25°	5122.2	4981.4	4883.8	4829.4	4627.8	4349.3	4194.1	4080.5	4005.3	3955.7	3974.8
27.5°	5640.7	5403.8	5157.4	5024.5	4627.8	4261.3	4008.5	3824.5	3701.3	3650.0	3675.6
30°	6135.1	5887.1	5523.8	5259.8	4616.5	4117.3	3709.3	3453.2	3309.2	3258.0	3288.4
32.5°	6557.5	6287.1	5912.7	5517.5	4589.3	3883.6	3338.0	3054.7	2915.5	2854.7	2885.2
35°	6949.6	6661.6	6303.1	5800.7	4517.3	3541.2	2930.0	2713.9	2558.7	2461.1	2493.1
37.5°	7351.3	7008.8	6672.7	6056.7	4387.7	3141.2	2616.3	2432.3	2249.9	2118.7	2153.8
40°	7788.2	7378.5	7068.0	6208.7	4174.9	2760.3	2373.1	2205.1	2011.5	1872.3	1899.4
42.5°	8298.6	7821.7	7508.0	6287.1	3883.6	2489.9	2214.6	2049.8	1867.4	1753.8	1776.2
45°	8831.4	8309.8	7909.7	6285.5	3558.8	2363.4	2163.5	2000.2	1798.6	1680.2	1699.3
47.5°	9389.9	8820.2	8257.0	6183.1	3277.1	2381.1	2134.7	1893.0	1670.5	1555.3	1571.4
50°	9950.0	9378.6	8593.0	5991.1	3157.2	2342.6	2027.4	1742.6	1480.2	1376.2	1382.5
52.5°	10505.2	9972.3	8882.6	5717.4	3035.5	2200.3	1889.8	1547.3	1401.8	1329.7	1329.7
55°	11063.6	10559.7	9197.8	5319.0	2731.5	2033.8	1659.4	1473.7	1339.4	1273.8	1267.3
57.5°	11623.7	11238.1	9497.1	4920.6	2349.1	1829.0	1533.0	1384.2	1276.9	1221.0	1211.3
60°	12206.2	12014.2	9806.0	4554.2	1971.4	1566.6	1440.1	1312.1	1203.4	1140.9	1136.1
62.5°	12806.2	12868.7	10047.6	4082.1	1624.2	1406.6	1357.0	1225.7	1120.1	1060.9	1059.3
65°	13411.2	13692.8	10206.0	3427.6	1316.9	1254.5	1267.3	1131.3	1024.1	972.9	971.3
67.5°	13867.2	14286.4	10161.1	2593.9	1080.1	1110.5	1155.4	1032.1	931.3	891.3	892.9
70°	13918.4	14216.0	9719.6	1776.2	904.2	969.8	1030.5	934.5	830.5	801.7	803.3
72.5°	13236.7	13255.9	8488.9	1160.1	764.9	851.3	899.3	835.3	734.5	705.7	704.1
75°	11449.4	10962.9	6232.7	764.9	640.1	731.2	776.1	731.2	633.7	640.1	617.7
77.5°	8674.6	7764.1	3784.4	544.1	534.4	614.5	675.3	643.3	560.1	628.8	553.7
80°	4469.3	4200.4	1688.2	406.4	422.4	491.3	555.2	513.6	443.2	422.4	385.6
82.5°	1024.1	1190.5	665.6	291.2	305.7	353.6	424.0	385.6	318.5	268.9	265.7
85°	358.4	392.1	294.5	182.4	179.2	220.8	288.0	257.6	216.1	172.8	182.4
87.5°	113.6	148.8	110.4	73.6	76.8	99.2	132.8	121.6	100.9	65.6	68.8
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)