

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: P968951

Luminaire Tested: **NAV-SB5C-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-830-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34774.1 lumens
Efficiency: N/A
Efficacy: 139.4 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): 249.5
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



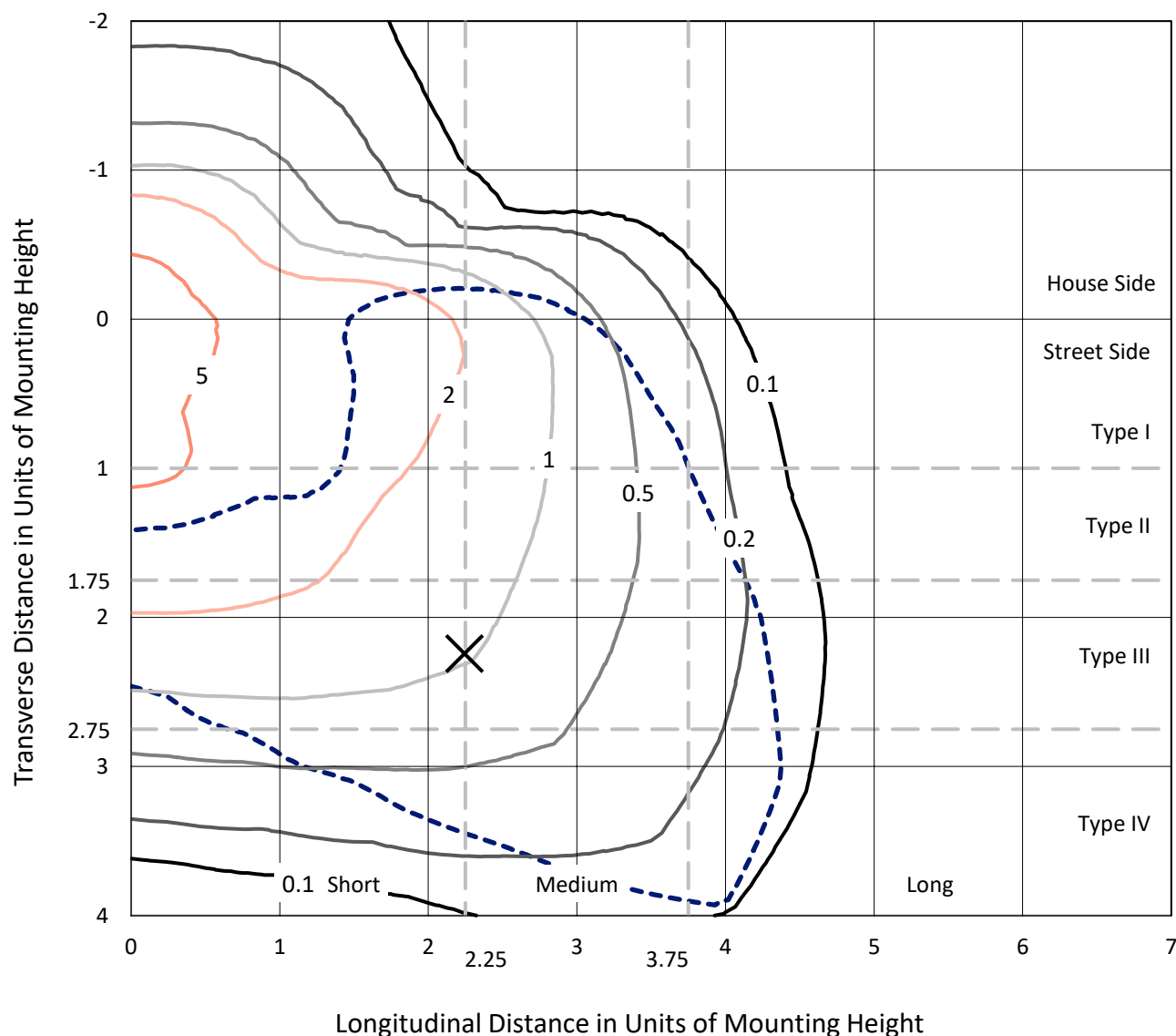
REPORT NUMBER: P968951

CATALOG NUMBER: NAV-SB5C-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

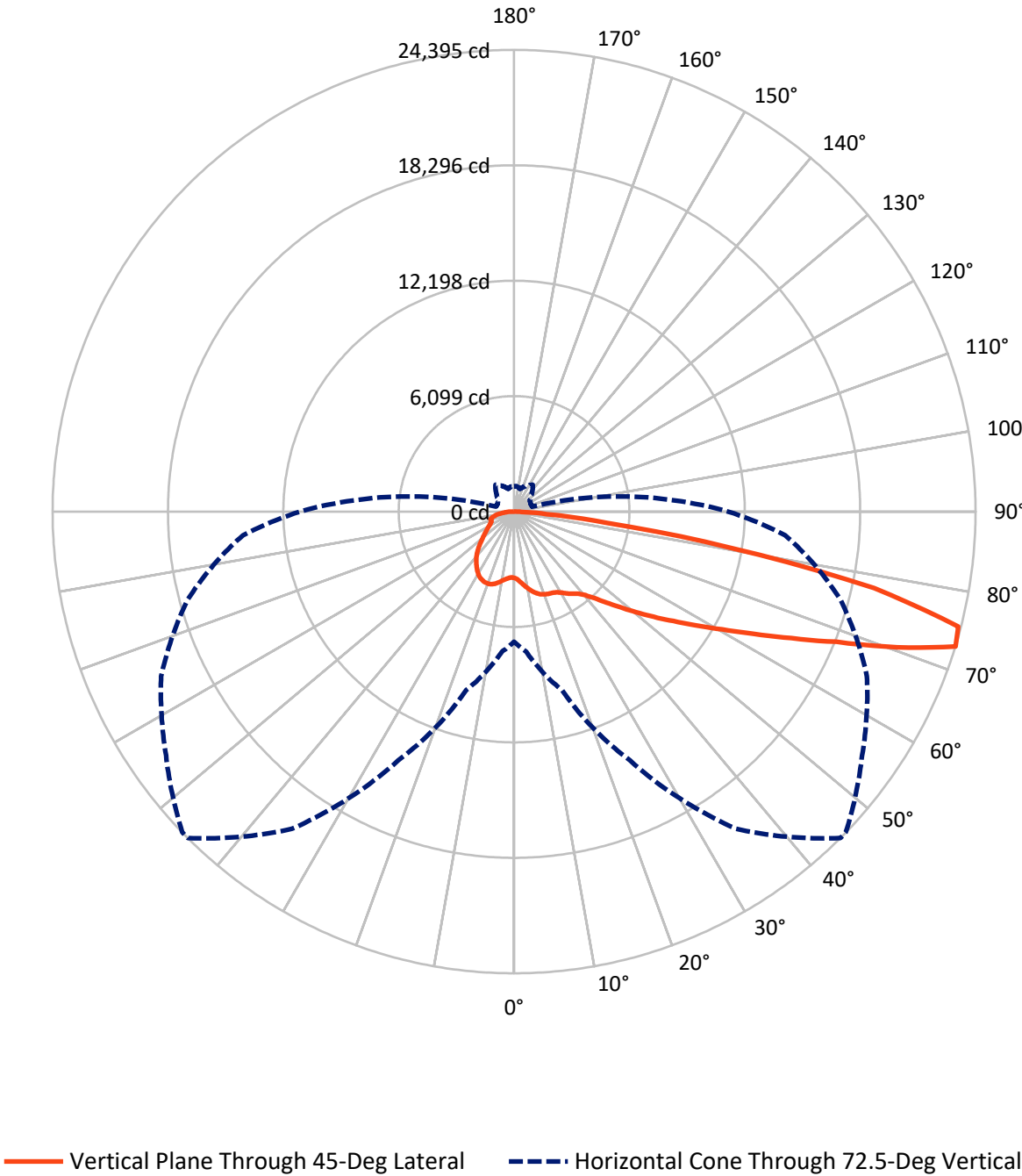


Based on 25 foot mounting height. Maximum calculated value = 7 fc

Type IV - Short - N/A

REPORT NUMBER: P968951
CATALOG NUMBER: NAV-SB5C-830-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P968951

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7861.2	0.0	7861.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	26912.9	0.0	26912.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	34774.1	0.0	34774.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.0	1.0
10°-20°	1190.4	3.4
20°-30°	2070.9	6.0
30°-40°	2968.7	8.5
40°-50°	4180.1	12.0
50°-60°	6402.6	18.4
60°-70°	9275.2	26.7
70°-80°	7406.8	21.3
80°-90°	922.5	2.7
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°	34774.1	100.0
0°-180°	34774.1	100.0

Coefficient of Utilization



REPORT NUMBER: P968951

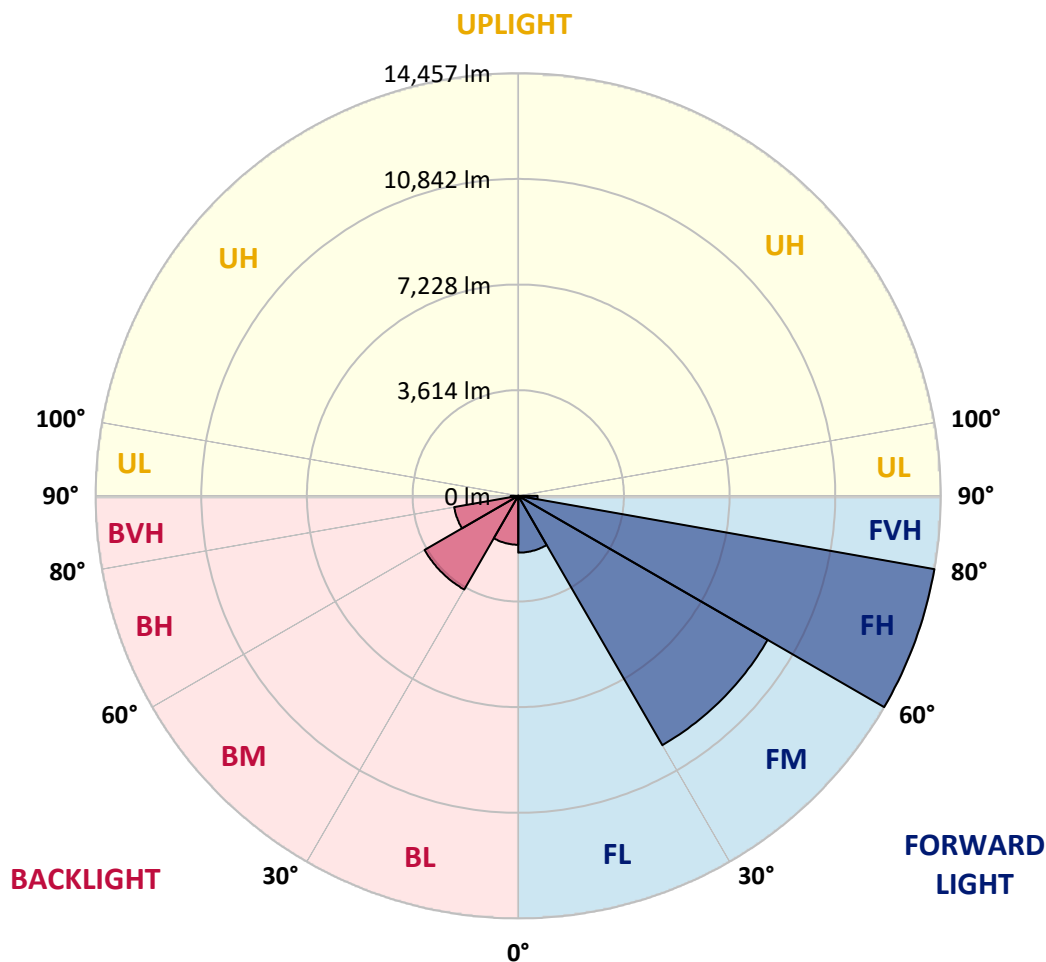
CATALOG NUMBER: NAV-SB5C-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1944.6	5.6			
FM	(30°-60°)	9849.8	28.3			
FH	(60°-80°)	14456.6	41.6			G5
FVH	(80°-90°)	661.8	1.9			G4/750
BL	(0°-30°)	1673.7	4.8	B3/2500		
BM	(30°-60°)	3701.5	10.6	B3/5000		
BH	(60°-80°)	2225.3	6.4	B3/2500		G3/2500
BVH	(80°-90°)	260.7	0.7			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



REPORT NUMBER: P968951

CATALOG NUMBER: NAV-SB5C-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3508.1	3508.1	3508.1	3508.1	3508.1	3508.1	3508.1	3508.1	3508.1	3508.1	3508.1
2.5°	3645.4	3669.2	3647.3	3627.1	3617.9	3594.2	3592.3	3577.7	3568.5	3542.8	3535.5
5°	3900.0	3931.2	3894.6	3854.3	3817.6	3759.0	3751.7	3709.6	3661.9	3607.0	3575.8
7.5°	4187.6	4215.1	4173.0	4112.5	4048.4	3951.4	3949.5	3872.6	3797.4	3704.0	3650.9
10°	4438.7	4475.3	4418.5	4336.1	4255.4	4145.5	4132.7	4044.8	3949.5	3828.6	3748.0
12.5°	4660.3	4685.9	4631.0	4530.2	4436.8	4326.8	4310.4	4213.3	4107.1	3969.6	3867.1
15°	4836.2	4869.2	4795.9	4687.7	4588.8	4480.8	4466.1	4378.2	4271.9	4127.2	3995.3
17.5°	4951.6	4979.0	4903.9	4783.1	4687.7	4598.0	4587.0	4513.7	4420.3	4273.7	4132.7
20°	4995.5	5024.9	4946.0	4823.3	4735.4	4665.8	4660.3	4607.2	4543.0	4409.3	4266.5
22.5°	5039.5	5067.0	4964.4	4836.2	4759.2	4715.2	4713.4	4678.6	4653.0	4543.0	4403.8
25°	5217.1	5224.5	5087.1	4902.1	4792.2	4753.7	4751.9	4750.1	4761.0	4674.9	4552.2
27.5°	5371.0	5369.3	5252.0	5078.0	4907.6	4827.0	4825.2	4843.4	4878.3	4806.8	4706.1
30°	5596.4	5576.2	5437.0	5255.7	5099.9	4975.3	4964.4	4947.9	4975.3	4918.6	4859.9
32.5°	6074.5	6010.4	5785.1	5462.6	5259.3	5164.1	5149.4	5046.8	5057.8	5023.0	4993.7
35°	6759.6	6675.3	6374.9	5854.7	5457.1	5321.6	5314.2	5184.2	5162.2	5131.0	5142.0
37.5°	7574.7	7470.4	7120.5	6422.5	5797.9	5504.8	5493.8	5376.5	5286.7	5253.8	5316.1
40°	8393.6	8261.7	7972.3	7115.0	6299.9	5810.7	5775.9	5598.2	5495.6	5440.7	5572.5
42.5°	9188.7	9078.7	8831.5	7891.7	6919.0	6257.6	6180.7	5876.6	5799.8	5748.4	5986.5
45°	9892.1	9793.2	9611.8	8721.5	7644.4	6865.9	6790.7	6294.3	6270.5	6270.5	6614.9
47.5°	10463.6	10441.7	10249.3	9567.9	8499.9	7558.4	7428.3	6875.0	6939.1	7038.1	7507.0
50°	11097.5	11037.0	10831.9	10401.4	9505.5	8351.5	8245.3	7587.7	7827.6	8098.7	8796.7
52.5°	11680.0	11713.0	11484.0	11269.7	10641.3	9236.3	9049.4	8428.5	8946.8	9395.7	10307.9
55°	12279.0	12280.8	12216.8	12187.5	11832.1	10214.5	10009.3	9439.6	10263.9	10820.8	12070.2
57.5°	12841.4	12845.1	12940.3	13198.6	13213.3	11343.0	11110.3	10681.6	11727.6	12295.5	13887.4
60°	13343.3	13369.0	13629.1	14233.7	14427.8	12636.3	12416.4	12149.0	13240.7	13812.3	15798.0
62.5°	13511.9	13605.3	14184.2	15043.3	15627.7	14222.7	14006.5	13847.1	14830.8	15362.1	17395.5
65°	13226.1	13440.4	14559.7	15711.9	16862.4	16107.7	15893.3	15719.3	16483.2	16983.3	18707.1
67.5°	12524.5	12801.1	14537.8	16413.5	18360.8	18375.5	18175.8	17767.4	18254.6	18446.9	19133.9
70°	10676.2	11090.2	13257.2	16675.5	20081.0	21476.8	21284.5	20233.0	20022.4	19091.8	17932.2
72.5°	6878.7	7435.6	9762.0	14519.4	20463.8	24395.0	24384.0	22458.8	20581.1	17838.8	14382.0
75°	2509.7	2850.4	4535.7	9113.6	17177.5	24246.7	24318.1	22077.7	18787.6	13779.4	8959.7
77.5°	914.1	1000.2	1480.2	3502.5	10564.4	19454.5	19602.8	17650.1	13372.7	6915.4	3550.2
80°	479.9	527.6	758.4	1359.3	4526.6	11553.6	11786.3	10489.3	6285.2	2082.8	1064.4
82.5°	265.6	287.6	425.0	738.2	2038.8	4940.6	5079.8	4143.7	2211.0	882.9	439.6
85°	142.9	152.0	199.7	403.0	996.5	1712.8	1751.3	1238.3	881.1	518.4	212.5
87.5°	42.1	51.2	65.9	128.2	390.2	384.7	393.8	245.5	348.1	262.0	69.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P968951

CATALOG NUMBER: NAV-SB5C-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3508.1	3508.1	3508.1	3508.1	3508.1	3508.1	3508.1	3508.1	3508.1	3508.1	3508.1
2.5°	3524.6	3519.0	3498.8	3489.7	3478.7	3476.9	3486.0	3487.9	3489.7	3491.6	3498.8
5°	3557.5	3539.2	3520.9	3509.9	3513.5	3515.3	3533.7	3546.5	3555.6	3563.0	3566.7
7.5°	3621.6	3607.0	3575.8	3574.0	3579.5	3596.0	3619.8	3649.1	3665.6	3678.4	3682.1
10°	3716.9	3689.4	3652.8	3658.2	3669.2	3693.1	3742.5	3766.4	3793.8	3817.6	3812.1
12.5°	3813.9	3790.1	3748.0	3751.7	3770.0	3812.1	3859.7	3889.1	3907.4	3925.7	3933.0
15°	3940.4	3898.2	3852.5	3852.5	3885.4	3931.2	3953.2	3977.0	3988.0	4008.2	4015.4
17.5°	4070.4	4015.4	3955.0	3951.4	3991.7	4013.6	4026.4	4030.1	4033.8	4055.7	4063.1
20°	4200.4	4140.1	4054.0	4046.6	4055.7	4052.1	4050.3	4046.6	4052.1	4079.6	4090.6
22.5°	4328.7	4259.1	4140.1	4107.1	4081.4	4046.6	4044.8	4042.9	4046.6	4074.1	4092.4
25°	4478.9	4394.7	4235.3	4136.4	4050.3	4002.6	4008.2	4010.0	4013.6	4035.6	4064.9
27.5°	4641.9	4548.5	4323.2	4127.2	3971.5	3938.6	3929.3	3934.9	3947.7	3982.5	4017.3
30°	4805.0	4695.1	4403.8	4090.6	3872.6	3826.7	3797.4	3810.3	3850.6	3885.4	3923.9
32.5°	4953.4	4843.4	4468.0	4010.0	3746.2	3674.7	3636.3	3652.8	3693.1	3705.9	3751.7
35°	5127.5	5002.8	4495.4	3881.8	3608.8	3498.8	3447.6	3423.8	3443.9	3431.1	3471.4
37.5°	5321.6	5191.5	4491.8	3713.2	3447.6	3321.2	3249.8	3160.0	3117.8	3073.9	3101.3
40°	5609.2	5422.4	4447.8	3509.9	3247.9	3132.5	3004.3	2852.3	2756.9	2670.8	2676.4
42.5°	6001.2	5742.9	4367.2	3286.4	3022.6	2914.5	2740.4	2562.8	2412.5	2269.7	2256.8
45°	6585.6	6162.4	4266.5	3048.2	2779.0	2672.7	2484.0	2284.3	2114.0	1930.8	1908.9
47.5°	7428.3	6726.7	4171.1	2777.1	2522.5	2425.4	2255.0	2070.0	1868.5	1690.8	1670.6
50°	8586.0	7536.3	4083.3	2513.3	2269.7	2196.4	2060.9	1872.2	1668.8	1525.9	1516.8
52.5°	10058.8	8637.3	4046.6	2258.7	2033.4	2005.9	1897.8	1722.0	1529.6	1408.8	1399.5
55°	11749.7	9954.4	4046.6	2015.0	1826.3	1835.6	1760.4	1597.4	1430.7	1322.7	1311.6
57.5°	13475.3	11288.0	3973.3	1789.8	1650.6	1689.0	1641.3	1498.4	1348.3	1236.6	1218.2
60°	15065.3	12405.5	3676.6	1584.5	1494.8	1555.2	1524.1	1401.4	1218.2	1124.7	1110.1
62.5°	16287.1	13035.6	3105.0	1421.6	1366.5	1436.2	1419.7	1273.2	1194.3	1155.9	1143.1
65°	16899.0	12933.0	2374.1	1276.8	1258.5	1366.5	1331.8	1326.2	1264.0	1220.1	1205.4
67.5°	16523.5	12050.1	1722.0	1170.6	1196.2	1302.5	1436.2	1458.2	1342.7	1256.6	1242.0
70°	14876.6	10452.6	1282.3	1069.8	1117.5	1304.3	1637.6	1525.9	1317.1	1216.4	1199.9
72.5°	11317.3	7794.6	994.7	963.6	1014.9	1313.4	1727.4	1494.8	1243.8	1344.6	1333.6
75°	6472.1	4279.3	798.7	833.5	886.6	1227.3	1681.6	1414.2	1187.1	1234.7	1234.7
77.5°	2467.5	1645.0	659.5	705.3	712.6	1071.6	1608.4	1408.8	1130.3	1102.8	1005.7
80°	855.5	643.0	545.9	560.6	551.3	952.5	1542.4	1225.5	925.1	828.0	800.5
82.5°	349.9	320.6	432.3	414.0	392.1	740.0	1245.7	1002.0	756.6	668.6	661.3
85°	152.0	203.4	285.8	250.9	227.1	512.9	998.4	848.2	639.3	551.3	549.6
87.5°	31.2	77.0	121.0	113.6	117.3	342.6	708.9	602.7	452.4	338.9	265.6
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)