

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: P968825

Luminaire Tested: **NAV-SB5C-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968825
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-SB5C-740-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40546.9 lumens
Efficiency: N/A
Efficacy: 162.5 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



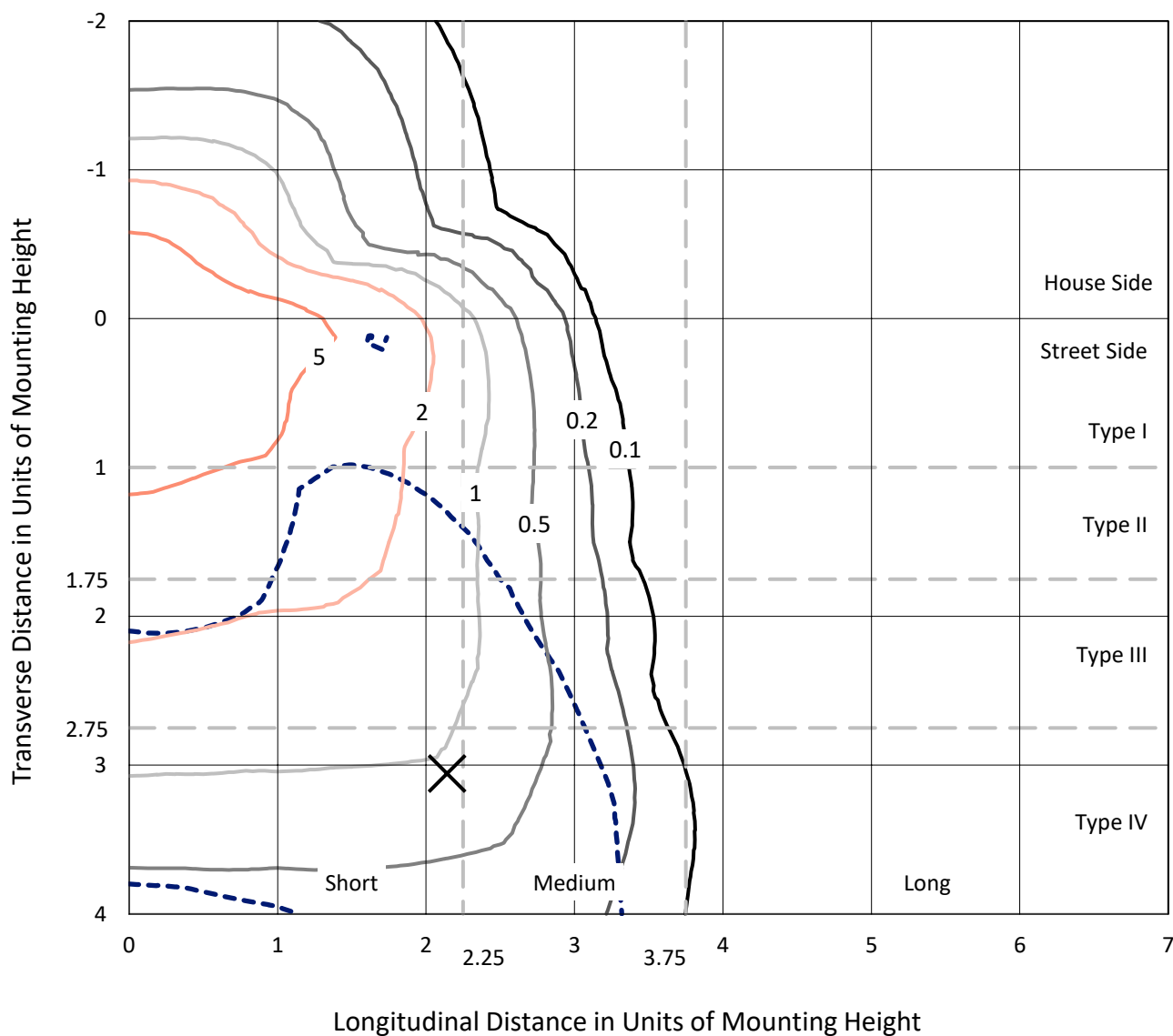
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

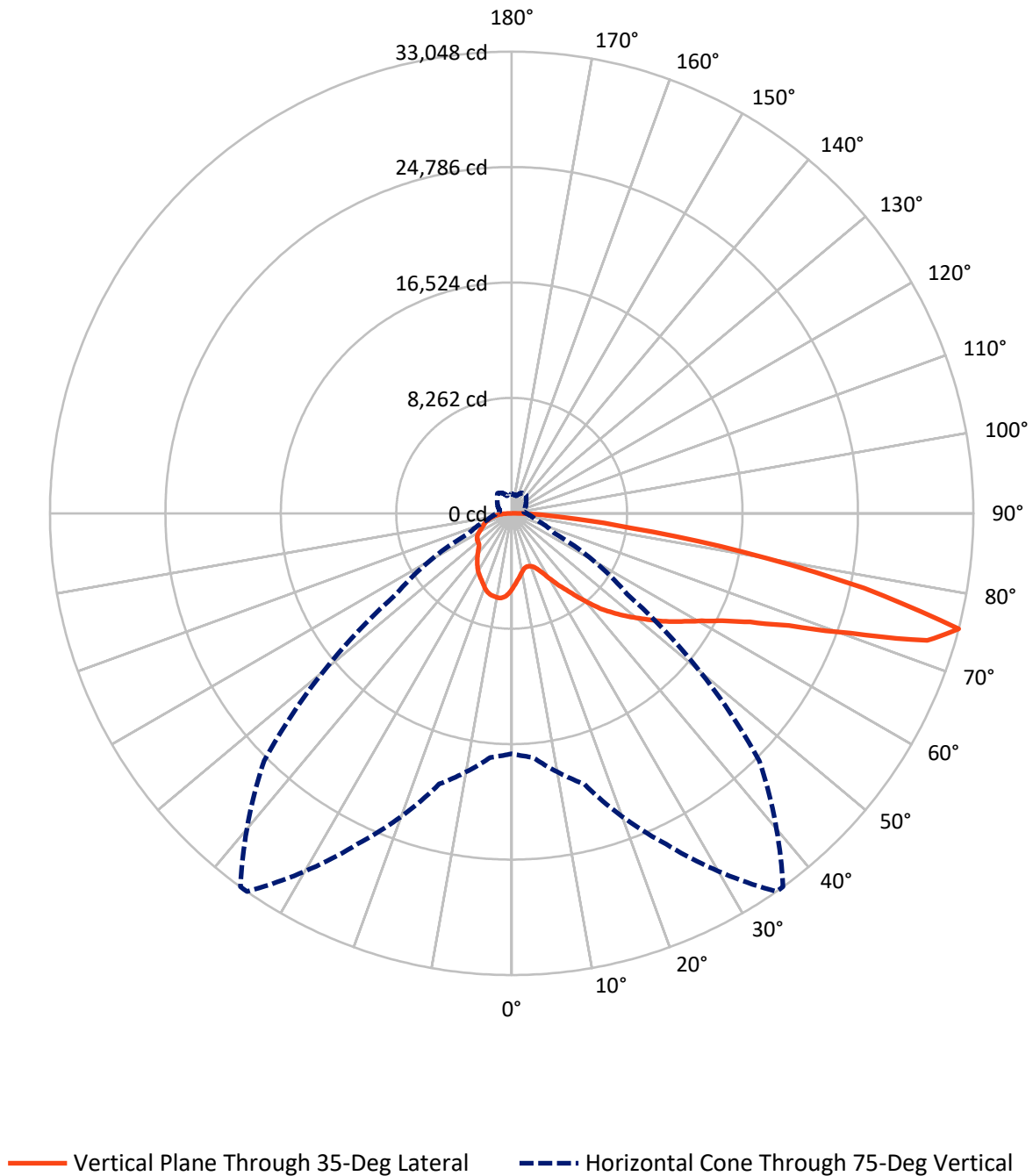


Based on 25 foot mounting height. Maximum calculated value = 9.6 fc

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	9649.2	0.0	9649.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	30897.8	0.0	30897.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	40546.9	0.0	40546.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.6	1.3
10°-20°	1475.6	3.6
20°-30°	2477.9	6.1
30°-40°	3851.0	9.5
40°-50°	5715.9	14.1
50°-60°	7891.2	19.5
60°-70°	9573.8	23.6
70°-80°	7912.0	19.5
80°-90°	1138.0	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°	40546.9	100.0
0°-180°	40546.9	100.0

Coefficient of Utilization



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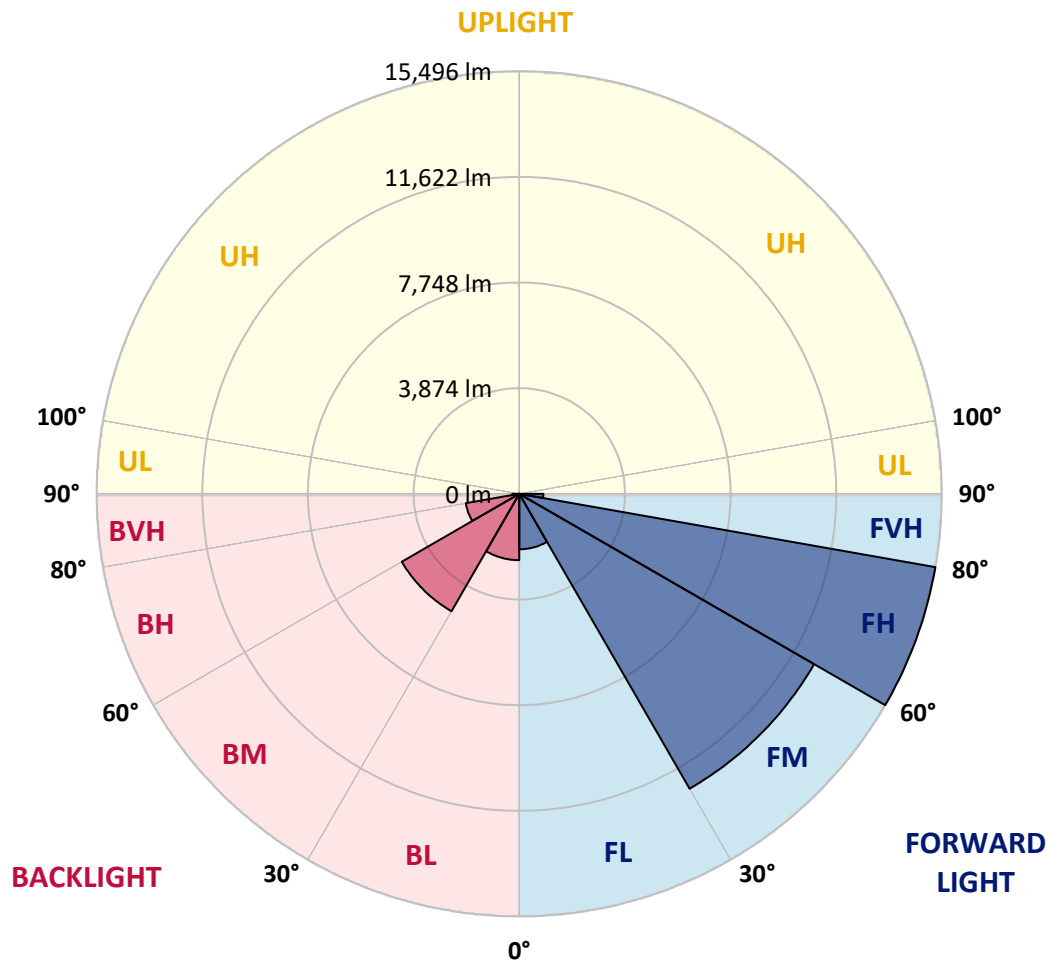
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2033.3	5.0			
FM	(30°-60°)	12486.3	30.8			
FH	(60°-80°)	15496.4	38.2			G5
FVH	(80°-90°)	881.7	2.2			G5
BL	(0°-30°)	2431.7	6.0	B3/2500		
BM	(30°-60°)	4971.8	12.3	B3/5000		
BH	(60°-80°)	1989.4	4.9	B3/2500		G3/2500
BVH	(80°-90°)	256.2	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°	5403.2	5403.2	5403.2	5403.2	5403.2	5403.2	5403.2	5403.2	5403.2	5403.2	5403.2
2.5°	4982.3	5013.0	5026.2	5019.5	5052.4	5048.0	5094.0	5151.0	5230.0	5306.7	5418.5
5°	4598.7	4631.6	4660.1	4686.4	4750.0	4769.6	4842.0	4951.6	5096.3	5243.2	5427.3
7.5°	4241.4	4269.9	4313.7	4362.0	4469.4	4489.1	4609.6	4780.6	4982.3	5197.2	5451.4
10°	3949.9	3978.4	4024.5	4079.2	4213.0	4237.0	4390.5	4618.4	4881.5	5153.3	5477.7
12.5°	3825.0	3833.7	3860.0	3914.8	4031.0	4046.3	4215.1	4476.0	4782.9	5120.4	5517.2
15°	3818.3	3836.0	3838.1	3866.6	3963.1	3969.6	4125.2	4383.9	4721.5	5113.8	5576.3
17.5°	3884.1	3897.3	3877.6	3895.1	3976.2	3987.1	4109.9	4340.1	4701.8	5142.3	5677.2
20°	4059.5	4070.5	4011.2	3987.1	4046.3	4055.1	4175.6	4368.5	4721.5	5201.5	5815.2
22.5°	4432.1	4438.7	4294.0	4195.4	4199.7	4204.1	4309.4	4484.7	4798.1	5308.9	5990.6
25°	5013.0	5008.6	4778.4	4587.8	4478.1	4454.0	4524.1	4673.3	4927.5	5451.4	6216.3
27.5°	5692.5	5659.6	5429.4	5144.5	4905.5	4870.5	4855.1	4918.8	5111.7	5639.9	6492.6
30°	6459.7	6429.0	6181.3	5808.7	5477.7	5420.7	5276.0	5243.2	5385.7	5896.3	6876.1
32.5°	7301.4	7281.7	6985.8	6534.2	6091.5	6025.7	5782.3	5694.7	5806.5	6284.3	7411.0
35°	8007.2	7989.7	7744.2	7279.4	6738.0	6657.0	6409.2	6310.6	6367.6	6781.9	8110.2
37.5°	8645.1	8636.2	8425.8	8059.8	7500.8	7402.2	7123.9	7091.0	7080.0	7437.3	8958.5
40°	9236.9	9215.0	8995.8	8802.9	8388.6	8298.7	8053.2	8024.7	7941.4	8244.0	9918.6
42.5°	9892.3	9835.3	9517.4	9427.5	9315.8	9241.3	9094.4	9098.8	8914.6	9153.6	10935.6
45°	10427.1	10394.2	10067.7	10015.0	10135.6	10104.9	10232.1	10264.9	9907.6	10107.1	11992.2
47.5°	11001.4	10970.7	10694.5	10657.2	10983.9	10992.6	11442.0	11452.9	10876.5	11097.9	13050.9
50°	11709.4	11665.5	11391.5	11437.6	11803.7	11836.5	12658.5	12584.0	11768.5	12103.9	14100.8
52.5°	12176.3	12202.6	12143.4	12217.9	12717.7	12748.3	13855.3	13664.6	12651.9	13096.9	15131.0
55°	12520.4	12573.1	12757.2	12928.1	13682.1	13712.9	14984.2	14692.7	13384.0	14017.5	16099.9
57.5°	12963.2	12888.7	13232.7	13566.0	14598.4	14679.4	16082.4	15683.4	14032.9	14811.0	16764.1
60°	13598.9	13546.3	13813.6	14306.8	15624.2	15753.5	17244.1	16575.5	14508.5	15440.1	16893.3
62.5°	14887.7	14756.2	14797.8	15234.1	16917.4	17088.4	18554.9	17353.7	14745.2	15685.6	16200.7
65°	16814.4	16588.7	16378.3	16680.7	18738.9	18907.8	20034.4	17965.2	14657.6	15210.0	14361.7
67.5°	19240.9	19017.3	18758.7	19043.7	21421.9	21555.6	21860.3	18309.4	13967.1	13377.5	11111.0
70°	21242.2	21158.9	21467.9	22640.6	25707.2	25711.6	24201.3	18024.4	12075.4	9484.5	6429.0
72.5°	20976.9	20926.5	22555.1	26180.7	31108.1	30992.0	26417.3	15867.5	8134.3	4278.7	2409.0
75°	17209.0	17535.6	20058.5	26117.1	33048.0	33032.7	25060.5	10087.3	3364.7	1773.2	1245.1
77.5°	9228.1	9745.4	13022.4	19282.6	25799.2	26187.2	17618.9	3529.1	1444.5	1135.4	861.4
80°	3009.5	3461.1	5190.5	9817.8	16764.1	16691.7	7551.3	1385.3	988.6	804.4	596.2
82.5°	1277.9	1330.6	2319.1	4636.0	8603.4	8469.7	2404.5	795.7	694.8	550.2	368.3
85°	499.8	558.9	1023.7	2143.7	3726.3	3645.2	868.0	394.5	445.0	359.5	219.1
87.5°	164.4	199.5	366.0	734.3	1159.6	1117.9	212.6	135.9	192.9	164.4	78.9
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°	5403.2	5403.2	5403.2	5403.2	5403.2	5403.2	5403.2	5403.2	5403.2	5403.2	5403.2
2.5°	5449.2	5484.3	5525.9	5587.3	5639.9	5683.7	5729.7	5758.2	5769.2	5802.1	5799.9
5°	5488.7	5565.3	5668.4	5769.2	5867.8	5927.1	5979.6	6006.0	6030.1	6047.6	6052.0
7.5°	5554.4	5653.1	5815.2	5946.7	6030.1	6078.2	6113.3	6104.6	6113.3	6117.7	6124.3
10°	5611.4	5749.5	5942.3	6067.3	6130.8	6133.1	6124.3	6093.6	6078.2	6080.5	6084.8
12.5°	5679.3	5832.8	6041.0	6146.2	6163.7	6115.6	6078.2	6025.7	6006.0	5997.2	5992.8
15°	5771.4	5946.7	6148.5	6187.8	6144.1	6082.7	6019.1	5933.6	5889.8	5854.7	5865.7
17.5°	5883.2	6076.1	6231.7	6203.2	6109.0	6008.1	5905.1	5775.8	5685.9	5648.7	5650.8
20°	6038.8	6212.0	6295.2	6170.3	6027.8	5874.4	5699.1	5541.3	5457.9	5420.7	5416.3
22.5°	6227.3	6394.0	6356.6	6113.3	5911.7	5666.2	5447.0	5330.8	5289.2	5262.9	5267.3
25°	6453.1	6595.6	6400.5	6030.1	5721.0	5390.0	5221.2	5183.9	5164.3	5144.5	5144.5
27.5°	6746.9	6823.5	6433.4	5907.3	5422.9	5096.3	5034.9	5041.5	5034.9	5002.0	5008.6
30°	7134.8	7119.4	6464.1	5707.8	5080.9	4831.0	4835.4	4863.9	4868.3	4846.4	4857.4
32.5°	7645.5	7489.9	6479.4	5449.2	4754.4	4598.7	4603.1	4633.8	4655.7	4618.4	4636.0
35°	8263.7	7921.7	6455.2	5124.8	4502.3	4377.4	4344.5	4353.2	4359.8	4324.7	4348.9
37.5°	8984.8	8406.1	6347.9	4765.3	4294.0	4160.3	4090.2	4031.0	3996.0	3963.1	3985.0
40°	9776.1	8934.4	6150.6	4414.6	4061.7	3930.2	3825.0	3713.2	3594.8	3550.9	3570.7
42.5°	10604.6	9478.0	5911.7	4079.2	3794.2	3686.8	3575.1	3412.8	3235.3	3145.4	3156.4
45°	11463.9	10034.8	5677.2	3748.2	3520.3	3474.2	3344.9	3149.8	2956.9	2842.9	2834.2
47.5°	12305.6	10560.8	5333.0	3415.1	3263.8	3314.2	3213.4	3033.7	2818.9	2639.1	2619.4
50°	13110.1	11054.0	4769.6	3077.5	3055.6	3266.0	3169.6	2910.9	2665.4	2435.3	2415.5
52.5°	13907.9	11452.9	4048.5	2770.6	2943.8	3252.8	3112.6	2827.6	2527.3	2286.2	2259.9
55°	14585.2	11659.0	3353.7	2507.6	2781.5	3141.1	3044.7	2729.0	2332.3	2075.7	2053.9
57.5°	14971.0	11492.4	2775.0	2249.0	2558.0	2956.9	2928.4	2518.5	2099.9	1902.6	1876.3
60°	14804.4	10817.2	2301.5	2023.1	2345.4	2757.5	2726.8	2310.4	1922.4	1736.0	1709.7
62.5°	13886.0	9530.6	1926.7	1825.9	2152.5	2553.6	2525.1	2150.3	1786.5	1606.7	1578.2
65°	12036.0	7752.9	1635.2	1661.5	1957.4	2308.1	2349.8	2016.6	1679.1	1503.7	1475.2
67.5°	9179.9	5615.8	1407.2	1519.0	1766.7	2067.0	2187.6	1920.1	1589.2	1422.6	1396.3
70°	5232.2	3189.3	1214.3	1380.9	1598.0	1843.5	2062.6	1843.5	1492.7	1354.6	1337.1
72.5°	1983.7	1464.2	1049.9	1242.8	1435.7	1655.0	1924.5	1722.9	1380.9	1277.9	1260.3
75°	1058.7	892.2	883.3	1080.7	1249.4	1470.8	1751.4	1604.5	1297.6	1350.2	1394.1
77.5°	721.2	631.3	738.7	925.0	1045.6	1266.9	1567.2	1424.7	1124.4	1120.1	1032.4
80°	499.8	447.2	600.5	745.3	808.8	1065.3	1367.8	1223.1	916.2	854.8	817.6
82.5°	300.3	291.5	449.4	556.8	572.1	821.9	1133.2	1025.8	749.7	653.2	657.5
85°	164.4	173.1	287.1	326.6	333.2	574.3	887.8	793.5	576.5	484.4	488.8
87.5°	46.0	59.1	105.2	129.4	160.0	298.1	528.3	471.3	289.4	201.6	201.6
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)