

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: P971594

Luminaire Tested: **NAV-SB6D-835-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-835-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58312.2 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 440.1
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

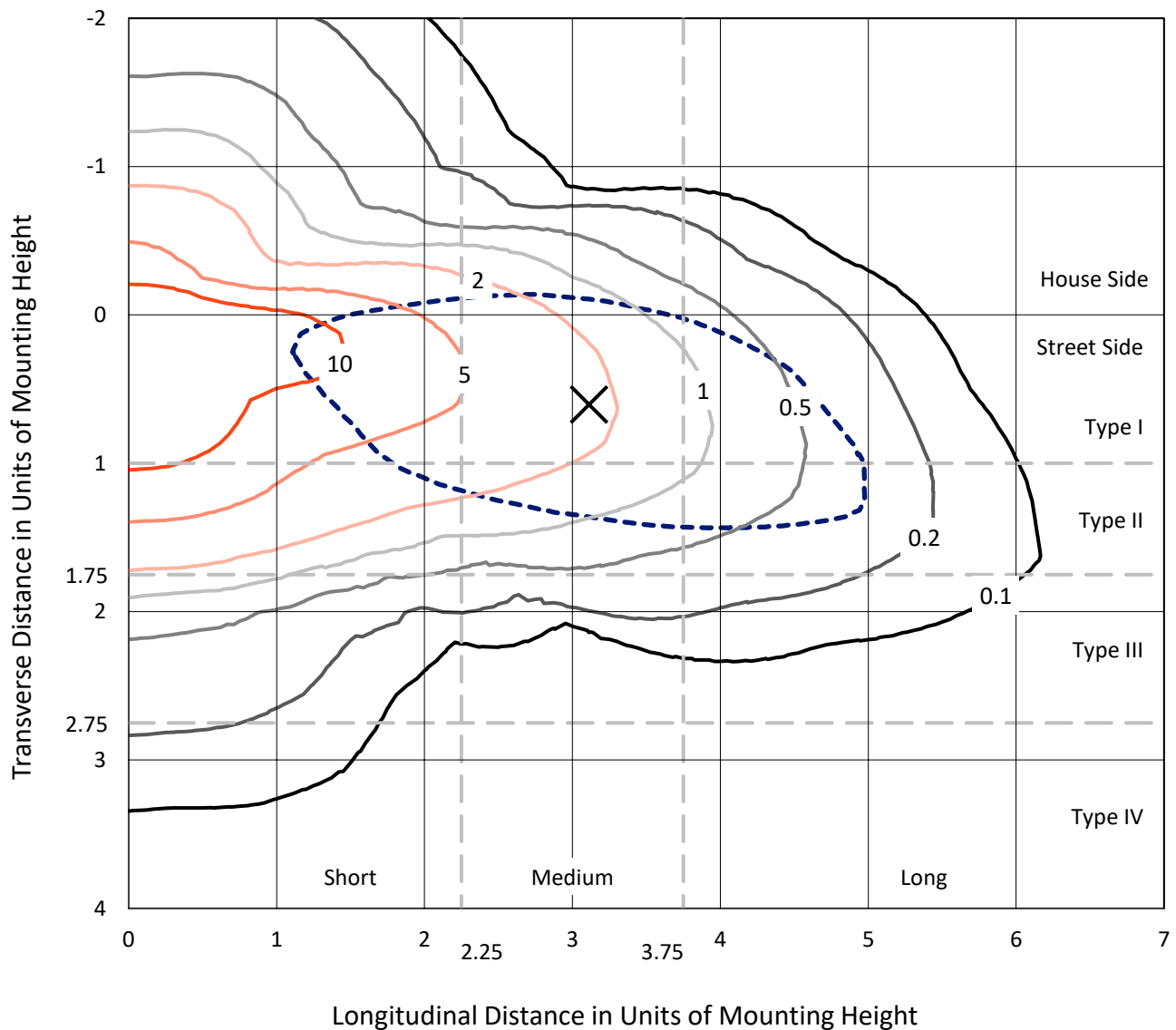


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

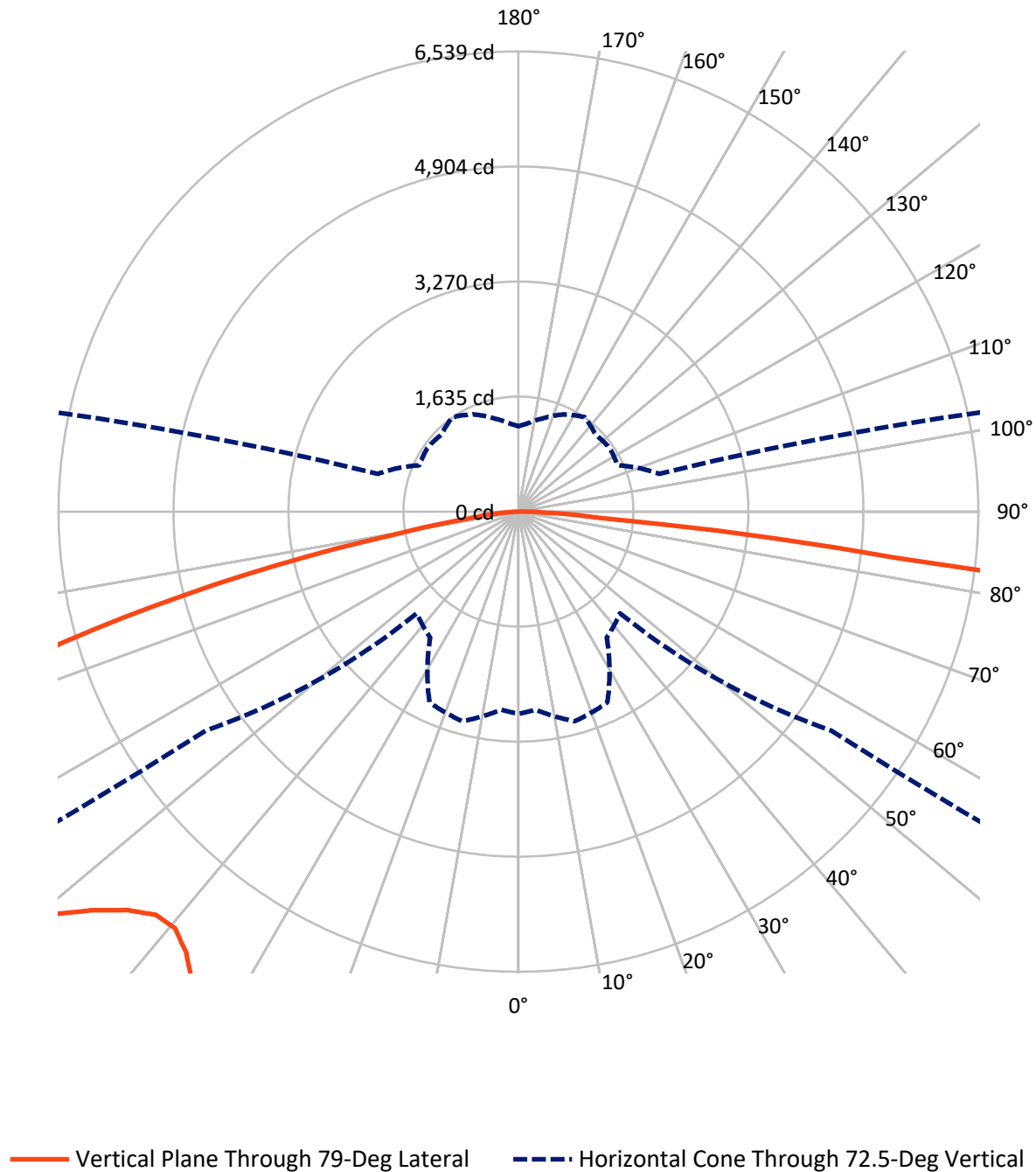


Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12831.9	0.0	12831.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	45480.3	0.0	45480.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	58312.2	0.0	58312.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1062.5	1.8
10°-20°	2778.0	4.8
20°-30°	4482.5	7.7
30°-40°	6727.7	11.5
40°-50°	9543.6	16.4
50°-60°	12052.3	20.7
60°-70°	12240.7	21.0
70°-80°	8342.6	14.3
80°-90°	1082.4	1.9
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°	58312.2	100.0
0°-180°	58312.2	100.0

Coefficient of Utilization



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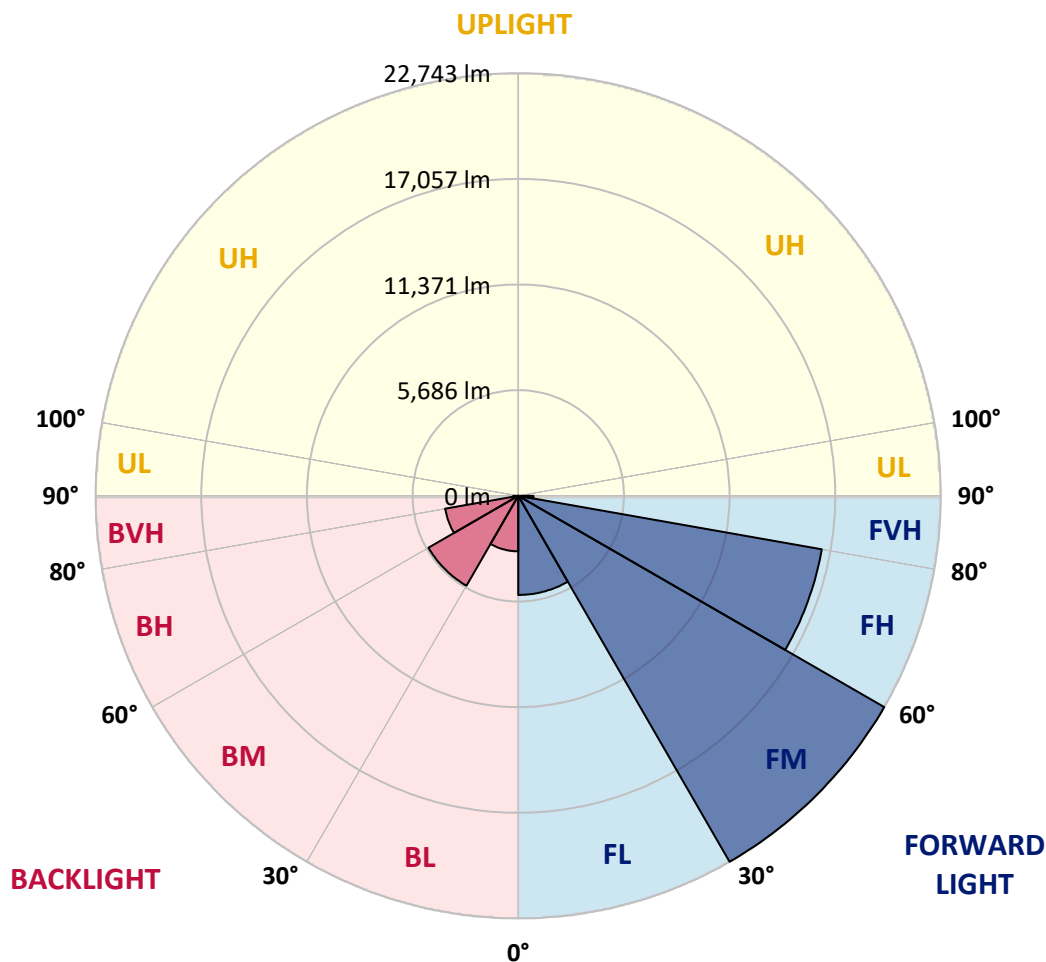
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5334.2	9.1			
FM	(30°-60°)	22743.0	39.0			
FH	(60°-80°)	16587.9	28.4			G5
FVH	(80°-90°)	815.4	1.4			G5
BL	(0°-30°)	2988.9	5.1	B4/5000		
BM	(30°-60°)	5580.5	9.6	B4/8500		
BH	(60°-80°)	3995.4	6.9	B4/5000		G4/5000
BVH	(80°-90°)	267.0	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	11705.6	11705.6	11705.6	11705.6	11705.6	11705.6	11705.6	11705.6	11705.6	11705.6	11705.6
2.5°	11711.8	11656.3	11690.2	11677.8	11693.3	11711.8	11718.0	11727.2	11758.1	11755.0	11751.9
5°	11687.2	11631.6	11677.8	11662.4	11702.5	11745.7	11782.8	11816.7	11866.0	11887.6	11856.8
7.5°	11634.7	11597.7	11643.9	11690.2	11764.2	11829.0	11881.5	11958.6	12029.5	12041.8	12063.4
10°	11329.3	11301.5	11409.5	11529.8	11733.4	11909.2	12023.4	12112.7	12189.9	12202.2	12233.1
12.5°	11011.6	10977.6	11098.0	11261.5	11591.5	11909.2	12149.8	12267.0	12334.8	12374.9	12421.3
15°	10959.2	10931.4	10999.3	11141.1	11415.7	11825.9	12236.1	12452.1	12510.6	12557.0	12575.4
17.5°	11212.1	11159.7	11187.5	11236.8	11397.2	11748.9	12304.0	12661.8	12751.3	12800.6	12800.6
20°	11798.2	11724.2	11681.0	11582.3	11554.5	11761.2	12297.8	12914.8	13032.0	13093.7	13109.0
22.5°	12578.5	12529.2	12436.6	12186.8	11915.4	11912.2	12415.1	13238.6	13457.6	13516.3	13479.2
25°	13522.4	13448.4	13331.2	12991.9	12470.6	12211.4	12612.4	13652.0	14019.0	14034.4	13926.5
27.5°	14608.1	14497.1	14336.7	13889.5	13186.2	12680.4	12914.8	14127.0	14663.6	14657.5	14435.4
30°	15752.5	15641.4	15471.8	14928.9	14043.6	13312.6	13334.2	14638.9	15428.6	15394.7	15015.3
32.5°	16588.4	16505.1	16471.1	16051.7	15030.7	14059.1	13815.5	15206.5	16372.4	16341.6	15811.0
35°	17229.9	17122.0	17162.1	16949.3	16107.2	14895.0	14404.5	15882.1	17519.9	17516.8	16856.7
37.5°	17865.3	17769.7	17803.6	17661.8	17103.5	15956.1	15123.3	16708.6	18941.8	19009.6	18121.4
40°	18445.3	18343.4	18479.2	18346.6	17877.6	17085.0	15940.6	17643.2	20589.0	20718.5	19651.3
42.5°	18793.8	18713.6	18938.7	18941.8	18550.1	18038.1	16838.2	18673.4	22495.2	22785.1	21532.8
45°	18914.1	18886.3	19225.6	19296.5	19145.5	18590.2	17646.4	19796.2	24549.5	25067.6	23676.5
47.5°	18784.6	18732.1	19200.9	19463.1	19583.4	18849.3	18315.7	21011.6	26646.9	27405.6	26014.6
50°	18130.6	18028.8	18725.9	19278.1	19706.8	19019.0	18991.2	22415.0	29031.2	29860.9	28364.9
52.5°	16955.4	16878.3	17671.0	18630.3	19435.3	19102.2	19750.0	23948.0	31295.2	32368.6	30773.9
55°	15453.3	15351.5	16224.4	17476.7	18759.9	19074.4	20508.7	25662.9	33966.3	35055.2	33263.1
57.5°	13072.0	12868.5	13972.7	15453.3	17658.7	19040.5	21298.4	27368.6	36680.8	37985.5	35918.9
60°	9598.9	9296.6	10650.8	12405.8	15505.7	18710.5	22276.1	29281.1	39937.9	41113.2	38818.3
62.5°	5589.1	5413.2	6298.5	7936.4	11687.2	16767.3	22825.2	31504.9	43139.7	44373.5	41668.3
65°	4339.8	4290.5	4367.6	4494.1	6505.2	12553.9	21131.8	33673.3	47211.2	48074.9	44638.7
67.5°	3969.7	3932.7	3966.6	3729.2	3300.4	6992.6	16718.0	34222.4	51572.7	52097.0	47239.0
70°	3528.7	3485.5	3596.5	3393.0	2597.1	3180.1	10801.9	32229.8	55042.7	56026.6	49216.1
72.5°	2874.7	2825.4	3084.5	2992.0	2186.9	2041.9	5425.6	27495.1	54678.7	56720.6	47800.3
75°	2208.5	2180.7	2489.2	2566.3	1782.8	1607.0	2603.3	20437.8	48118.0	50175.4	41196.4
77.5°	1714.9	1693.4	1850.7	2131.4	1437.4	1246.1	1600.8	12964.1	36261.2	36622.1	28389.6
80°	1286.3	1224.6	1369.5	1650.2	1119.7	909.9	1085.8	7560.1	22920.8	20777.1	12356.5
82.5°	805.0	774.2	894.5	1101.2	789.7	626.2	706.3	4176.4	9185.6	5410.2	2384.4
85°	459.6	447.2	487.4	629.2	428.8	360.9	404.1	1844.5	1677.9	1153.6	718.7
87.5°	185.1	178.9	222.1	280.6	157.3	132.6	141.9	444.1	370.1	342.3	237.5
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°	11705.6	11705.6	11705.6	11705.6	11705.6	11705.6	11705.6	11705.6	11705.6	11705.6	11705.6
2.5°	11739.5	11739.5	11696.4	11628.5	11551.4	11502.0	11421.9	11400.3	11317.0	11292.3	11332.4
5°	11881.5	11856.8	11724.2	11532.9	11270.7	11030.1	10764.9	10598.3	10363.9	10280.6	10342.2
7.5°	12060.4	11992.5	11764.2	11344.7	10795.7	10255.9	9694.6	9268.9	8861.7	8716.8	8735.3
10°	12223.8	12128.2	11739.5	11005.4	10055.5	9120.9	8226.3	7600.2	7125.2	6930.8	6974.0
12.5°	12387.3	12211.4	11576.0	10441.0	9003.6	7735.9	6782.8	6295.4	6002.4	5768.0	5845.1
15°	12541.5	12294.8	11323.2	9685.3	7850.1	6563.8	5860.5	5471.9	5237.4	5083.3	5111.0
17.5°	12720.5	12365.7	10943.7	8726.0	6752.0	5752.6	5178.8	4944.4	4898.2	4879.6	4892.0
20°	12970.2	12430.5	10444.0	7652.6	5943.8	5104.8	4808.7	4787.2	4784.1	4774.8	4805.6
22.5°	13238.6	12507.6	9784.0	6677.9	5256.0	4700.8	4648.3	4605.1	4577.3	4574.3	4608.2
25°	13556.3	12532.3	8957.4	5879.0	4669.9	4509.5	4447.8	4383.1	4364.6	4364.6	4383.1
27.5°	13864.8	12449.0	7995.0	5185.1	4339.8	4333.7	4253.5	4231.9	4228.8	4238.1	4262.8
30°	14173.2	12291.7	7038.8	4543.4	4148.6	4148.6	4120.9	4136.3	4148.6	4179.4	4201.1
32.5°	14589.6	12125.1	6239.9	4068.4	3982.0	3951.3	3978.9	4009.8	4022.2	4062.3	4096.2
35°	15200.3	12007.9	5604.5	3809.3	3809.3	3769.2	3784.7	3778.5	3750.8	3732.2	3775.4
37.5°	16008.4	12001.7	5080.1	3689.1	3664.4	3658.2	3661.3	3621.2	3513.2	3383.7	3386.8
40°	16980.1	12168.3	4676.0	3605.7	3587.3	3624.3	3605.7	3497.8	3201.7	2976.5	2970.3
42.5°	18284.9	12643.3	4417.0	3504.0	3559.5	3605.7	3531.7	3158.5	2958.0	2806.9	2800.7
45°	19820.9	13414.5	4284.4	3396.0	3507.0	3562.6	3204.8	3041.3	2880.9	2698.9	2686.6
47.5°	21560.6	14386.1	4253.5	3294.2	3389.9	3423.8	3066.0	2992.0	2809.9	2612.5	2597.1
50°	23454.5	15536.5	4336.8	3173.9	3220.2	3103.0	3019.8	2951.9	2763.7	2569.4	2547.7
52.5°	25413.1	16804.3	4503.3	3010.4	3050.6	2921.0	3001.2	2942.6	2735.9	2473.7	2455.3
55°	27337.8	18081.3	4663.8	2819.3	2877.8	2757.6	2948.7	2905.6	2609.4	2313.3	2297.9
57.5°	29293.4	19352.1	4821.1	2649.6	2711.2	2600.2	2865.5	2806.9	2467.6	2165.3	2159.2
60°	31326.0	20585.9	4895.1	2486.1	2529.3	2455.3	2739.0	2637.2	2307.2	2014.1	2004.9
62.5°	33229.2	21613.0	4774.8	2322.6	2350.4	2319.6	2572.4	2436.7	2146.8	1844.5	1841.4
65°	35138.4	22223.7	4404.6	2162.2	2168.4	2153.0	2338.0	2220.9	1958.7	1696.5	1677.9
67.5°	36868.8	22566.1	3815.5	1989.5	1974.0	1967.9	2119.1	1986.4	1776.6	1548.4	1529.9
70°	37235.9	21696.3	2914.8	1786.0	1786.0	1770.5	1878.4	1742.7	1576.1	1391.1	1385.0
72.5°	34009.6	18250.9	2069.7	1554.6	1579.2	1548.4	1637.8	1523.8	1372.6	1249.2	1212.2
75°	27424.2	13383.6	1505.2	1317.1	1360.3	1307.8	1391.1	1310.9	1181.3	1178.2	1061.1
77.5°	18843.1	8275.6	1091.9	1085.8	1116.6	1048.7	1144.3	1101.2	984.0	931.5	872.9
80°	8041.2	3300.4	795.8	839.0	839.0	777.3	888.4	900.7	798.9	774.2	774.2
82.5°	1600.8	937.7	558.3	576.8	542.8	524.4	629.2	697.1	962.4	1070.3	1073.4
85°	481.1	345.4	336.2	314.6	277.6	280.6	370.1	700.2	863.7	493.5	425.7
87.5°	132.6	86.4	89.5	70.9	58.6	77.1	126.5	530.5	290.0	123.4	104.9
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)